LS

Horizontal split-case pumps

50 Hz

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Table of contents

1. Applications **4**

2. Features and benefits **5**

3. Performance range **6**
LS 2-pole . . . 6
LS 4-pole . . . 7
LS 6-pole . . . 7

4. Product range **8**
Pump configurations . . . 8
Pump range . . . 8

5. Identification **9**
Nameplate . . . 9
Type key . . . 9

6. Construction **12**
LS pump, standard construction type 1 . . . 12
LS pump, standard construction type 2 . . . 13
LS pump, standard construction type 3 . . . 13
LS pump, standard construction type 4 . . . 14
LS pump, optional construction type 1 . . . 14
LS pump, optional construction type 2 . . . 15
LS pump, typical end view . . . 15
Standard components and material specification . . . 16
Mechanical construction . . . 17

7. Operating conditions **20**
Ambient temperature and altitude . . . 20
Liquid temperatures and shaft seals . . . 20
Pressure . . . 20
Flow rate . . . 21
Maximum particle size . . . 21

8. Installation **22**
Mechanical installation . . . 22
Measuring instruments . . . 23
Pipes . . . 23

9. Selection of product **27**
Pump size . . . 27
Efficiency . . . 27
Material . . . 27
Motor size . . . 27
Pumped liquids . . . 29

10. Performance tests **30**
Certificates . . . 30
Witness test . . . 30

11. Introduction to performance curves and technical data **31**
How to read the curve charts . . . 31
Curve conditions . . . 32

12. Performance curves and technical data **33**
Overview . . . 33
2-pole . . . 34
4-pole . . . 42
6-pole . . . 92

13. Electrical data **120**
Standard motor brands . . . 120
Other motor brands . . . 122

14. Bare shaft pump **124**
Standard pump flange dimensions 127
Optional pump flange dimensions 128
Counterflange dimensions 131
Tap and drain plug dimensions 132

15. Other motor brands **133**
Dimensional correction tables 133

16. Grundfos GO **134**

17. Grundfos Product Center **135**

1. Applications

TM04 7807 2110

Fig. 1 Grundfos single-stage LS pump

The Grundfos LS pumps are used for liquid transfer and pressure boosting in these main fields of application:

- Commercial systems
- industrial systems
- water distribution
- irrigation.

Commercial systems

- Air-conditioning and chilled-water systems
- water-condensing systems and cooling towers
- boiler-feed and condensate systems
- district heating plants and heating systems
- district cooling plants
- swimming pools and fountains.

Industrial systems

- Process-cooling and chilled-water systems
- industrial heating systems
- wash-down and cleaning systems.

Water distribution and water treatment

- Public waterworks
- potable and non-potable water systems.

Irrigation and aquaculture

- Field irrigation (flooding)
- sprinkler irrigation.

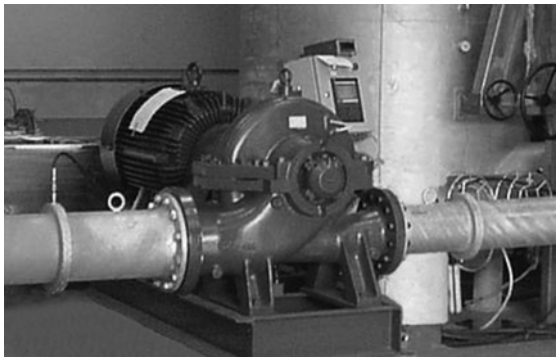

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Fig. 2 LS pump in industrial pressure boosting

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Fig. 3 LS pump in sprinkler irrigation

2. Features and benefits

The Grundfos LS horizontal split-case pump is a single-stage, centrifugal volute pump with high energy efficiency and low life-cycle costs.

Ease of service and long-term reliability are two of the selling features of the LS pumps. The split-case design enables removal and dismantling of the internal pump parts (bearings, wear rings, impeller, and shaft seals) without disturbing the motor or pipes. The two-bearing design means less vibration and higher reliability. The separate bearing housings allow for inspection of the seals and bearings without removing the top half of the casing.

The double-suction design reduces axial forces by directing flow into both sides of the impeller. The double-volute design, available on most models, reduces the radial load and minimises noise and vibration.

- LS pumps cover this performance range:
  Flow rate: 10 to 2500 m^3/h.
  Head: 5 to 235 m.
  Motor (P2): 1.5 to 630 kW.
- The pumps are non-self-priming, centrifugal volute pumps with radial inlet and radial outlet ports and a horizontal shaft.
- Inlet and outlet flanges are PN 16 according to EN 1092-2 (DIN2501). The pumps are also available with PN 10 flanges for the low-pressure range.
- The pump is long-coupled with a totally enclosed fan-cooled standard motor with main dimensions to IEC and DIN standards and mounting designation B3 (IM 1001).
- The rotating assembly is dynamically balanced according to ISO 1940 class G6.3.
- Impellers are hydraulically balanced.
- Pump and motor are mounted on a common base frame in the form of a welded, steel C-channel profile.
- Grundfos LS pumps are available in three different variants:
  1. Pump with motor and base frame, see fig. 4.
  2. Bare shaft pump, i.e. pump without motor, with base frame, see fig. 5.
  3. Bare shaft pump, i.e. pump without motor, without base frame, see fig. 6.

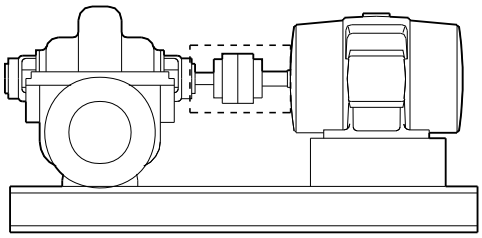

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Fig. 4 LS pump with motor and base frame

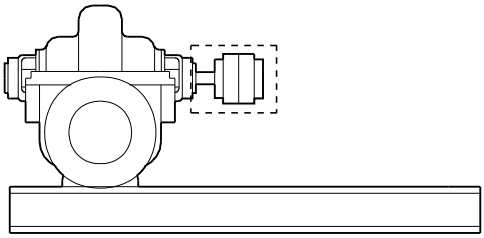

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Fig. 5 LS bare shaft pump with base frame, coupling and guard

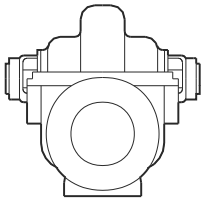

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Fig. 6 LS bare shaft pump

3. Performance range

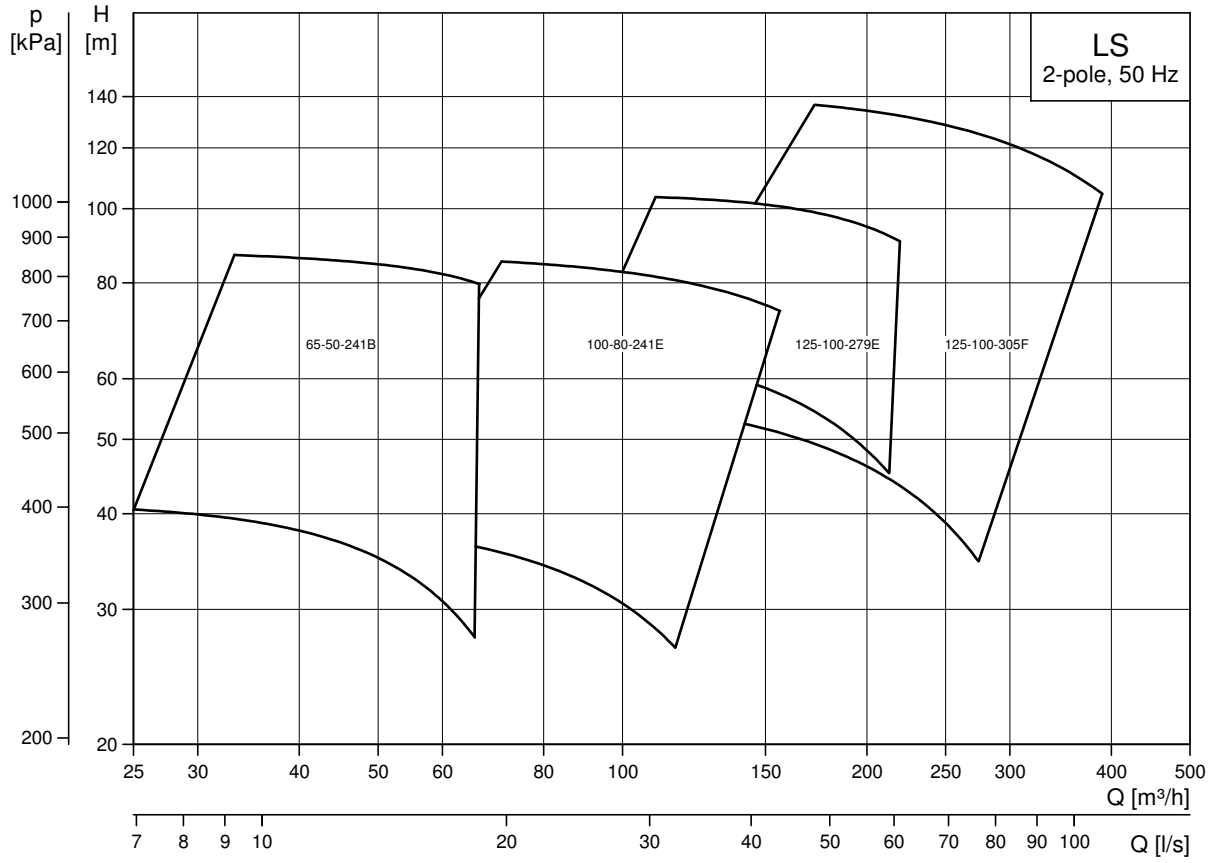
Grundfos LS pumps are available with 2-, 4- or 6-pole motors.

The next three pages show the performance range covered by these three motor types.

Knowing your required duty point, use the performance ranges like this:

1. Go into the relevant performance range chart.
2. Find your duty point.
3. Note which pump type covers your duty point.
4. Go to the *Pump range* section on page 8 and find the selected pump. Go to the listed page number in section *12. Performance curves and technical data* to find more detailed information on your chosen pump.

LS 2-pole



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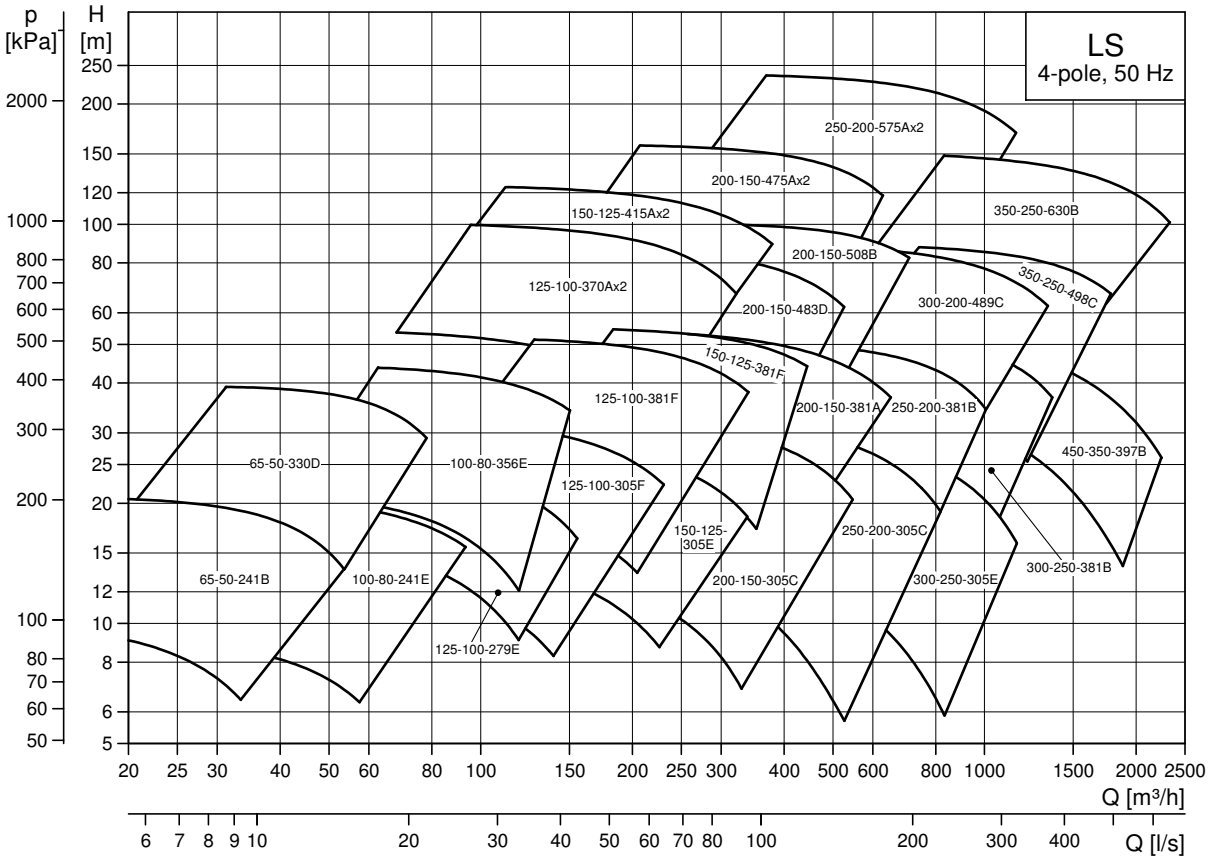
LS 4-pole



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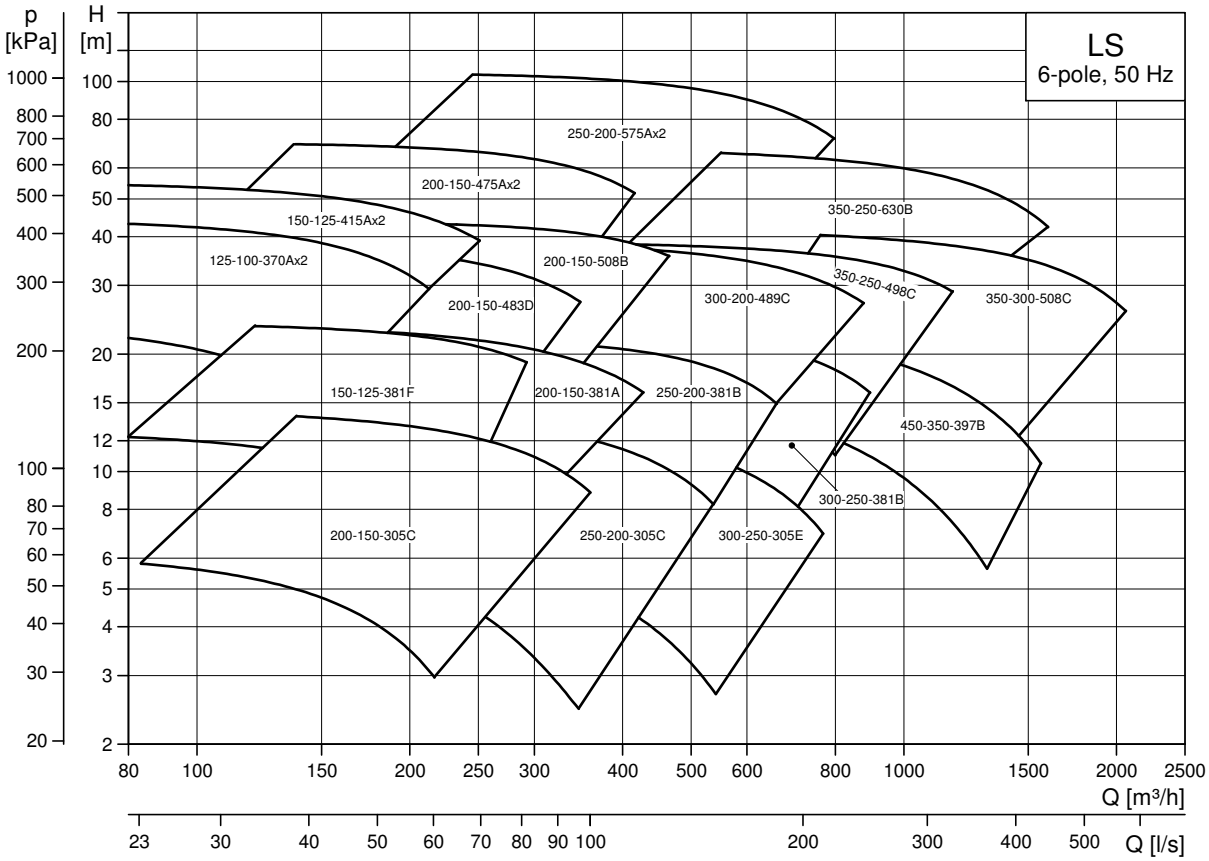
LS 6-pole



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4. Product range

Pump configurations

	Standard configuration	Optional configuration
Pump casing	Cast iron	Ductile iron
Shaft	Stainless steel	Duplex stainless steel
Impeller	Stainless steel	Bronze
Wear rings	Bronze	Stainless steel
Coupling	Flexible grid/Pin and bush	Spacer coupling
Shaft seal	Mechanical seal	Stuffing box
Flange	EN 1092-2 (DIN 2501), PN 16	EN 1092-2 (DIN 2501), PN 10 and PN 25
Flushing line	-	Nylon, stainless steel, copper
Motor	• IE3 motor, MMG-G • IE3 motor (MG, Siemens)	• High-voltage motor • Siemens IE4 motor, up to 200 kW • MMG-H IE3 motor
Motor bearing	-	Insulated bearing
Pump direction of rotation (seen from motor side)	CW - clockwise	CCW - counterclockwise

To a great extent the pumps can be adapted to the requirements of the individual customer. For customised solutions, contact your local Grundfos company.

Pump range

The table below gives an overview of the LS pump range (PN16). The PN 10 pump range does not include all impeller sizes (see individual performance curves).

The product range includes the pumps found in Grundfos Product Center.

LS pumps are available with 2-, 4- or 6-pole motors; other motor pole numbers are available on request.

LS pumps are available in two different construction types, both with mechanical shaft seal.

Pump sizes	Motor range [kW]			Standard construction type				Optional construction type	
	2-pole	4-pole	6-pole[3]	1	2	3	4	1	2
LS 65-50-241	11-45	1.5 - 5.5	-	●	-	-	-	●	-
LS 65-50-330	-	4.0 - 15	-	●	-	-	-	●	-
LS 100-80-241	15-75	2.2 - 7.5	-	●	-	-	-	●	-
LS 100-80-356	-	7.5 - 30	-	●	-	-	-	●	-
LS 125-100-279	18.5 - 90	2.2 - 15	-	●	-	-	-	●	-
LS 125-100-305	30-90	4.0 - 22	-	●	-	-	-	●	-
LS 125-100-381	-	11-75	-	●	-	-	-	●	-
LS 125-100-388	-	11-75	-	-		-	-	●	-
LS 150-125-305	-	15-75	-	●	-	-	-	●	-
LS 150-125-381	-	5.5 - 37	7.5 - 22	●	-	-	-	●	-
LS 200-150-305	-	11-45	4.0 - 18.5	●	-	-	-	●	-
LS 200-150-381	-	18.5 - 110	11-45	●	-	-	-	●	-
LS 200-150-483	-	55-160	15-45	●[1]	●[2]	-	-	●	●
LS 200-150-508	-	55-250	18.5 - 75	-	●	-	-	-	●
LS 250-200-305	-	15-55	5.5 - 30	●	-	-	-	●	-
LS 250-200-381	-	30-160	11-45	●	-	-	-	●	-
LS 300-200-489	-	110-355	37-110	-	●	-	-	-	●
LS 300-250-305	-	30-90	11-30	●	-	-	-	●	-
LS 300-250-381	-	55-200	18.5 - 55	●	-	-	-	●	-
LS 350-250-498	-	160-500	45-200	-	●	-	-	-	●
LS 350-250-630	-	250-630	75-315	-	●	-	-	-	●
LS 350-300-508	-	-	55-200	-	●	-	-	-	●
LS 400-350-397	-	110-250	37-75	-	-	-	-	-	●
LS 450-350-397	-	110-250	37-75	-	●	-	-	-	●
LS 125-100-370x2	-	37-90	-	-	-	●	-	-	-
LS 150-125-415x2	-	55-160	-	-	-	●	-	-	-
LS 200-150-475x2	-	110-315	37-90	-	-	●	-	-	-
LS 250-200-575x2	-	250-600	90-220	-	-	-	●	-	-

1) Construction type 1 is for 55-90 kW, 4-pole and 15-45 kW, 6-pole.

2) Construction type 2 is for values above 90 kW, 4-pole.

3) For 6-pole models with grey background, the pump impeller is only available with stainless steel, not with bronze with sleeve.

5. Identification

Nameplate

The pump nameplate gives the details of the pump.

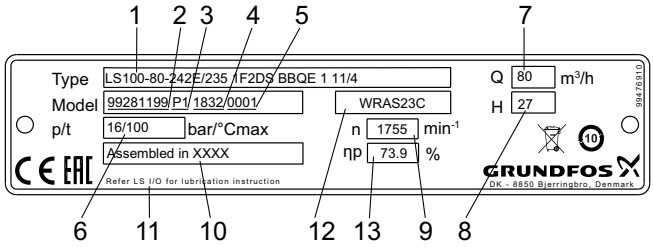

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Fig. 7 Nameplate of LS pump

Pos.	Description
1	Type designation
2	Product number
3	Place of production
4	Production year and week
5	Serial number

Pos.	Description
6	Maximum pressure and temperature
7	Rated flow rate (duty-point flow rate)
8	Head at rated flow rate (duty-point head)
9	Speed
10	Country of production

Pos.	Description
11	Reference to LS installation and operating instructions for bearing lubrication
12	Liquid temperature rating, only for WRAS-approved pumps
13	Hydraulic pump efficiency at optimum efficiency point

Type key

Example	LS	125	-100	-305X	/273.1	, (W)	1	F2	D	S	BBQE	1

Type range
LS horizontal version

Nominal diameter of the inlet port (DN)

Nominal diameter of the outlet port (DN)

Maximum impeller diameter [mm]
If suffix is used:
"X" = different impeller or construction design for single-stage pump, such as A, B, C....Z.
"x2" = double-stage impeller design.

Actual impeller diameter [mm]

Potable-water code (optional)
ACS- or WRAS-certified pump

Pump variant

1: Basic version, grease-lubrication, pump with motor, common base frame, standard coupling
2: Grease-lubrication, bare shaft pump with common base frame, standard coupling
3: Grease-lubrication, bare shaft pump
4: Grease-lubrication, pump with motor, separate base frames, spacer coupling
5: Grease-lubrication, bare shaft pump with separate base frame, spacer coupling
6: Oil-lubrication, pump with motor, common base frame, standard coupling
7: Oil-lubrication, bare shaft pump with common base frame, standard coupling
8: Oil-lubrication, bare shaft pump
9: Oil-lubrication, pump with motor, separate base frames, spacer coupling
0: Oil-lubrication, bare shaft pump with separate base frame, spacer coupling
X: Special variant

Code for pipe connection

F1: 10 bar, DIN PN 10
F2: 16 bar, DIN PN 16
F3: 25 bar, DIN PN 25
XX: Special flanges
G1: 175 PSI (12 bar), ANSI 125LB/150LB
G2: 250 PSI (17.2 bar), ANSI 250LB/300LB
G3: 400 PSI (27.6 bar), ANSI 250LB/300LB

Example	LS	125	-100	-305X	/273.1	, (W)	1	F2	D	S	BBQE	1

Code for shaft and sleeve materials

D:	SS420 and no sleeve	A:	SS420 and SS304
E:	SS304 and no sleeve	C:	SS420 and SS316
J:	SS316 and no sleeve	B:	SS420 and bronze
L:	Duplex stainless steel and no sleeve	K:	Duplex stainless steel and duplex stainless steel
X:	Special		

Code for pump casing and impeller materials

S:	Cast iron and SS304	Q:	Ductile iron and SS304
C:	Cast iron and SS316	G:	Ductile iron and SS316
B:	Cast iron and bronze	A:	Ductile iron and bronze
D:	Cast iron and duplex stainless steel	H:	Ductile iron and duplex stainless steel
U:	SS304 and SS304	J:	SS316 and SS316
K:	Duplex stainless steel and duplex stainless steel		
X:	Special		

Code for shaft seal or stuffing box

BAQE:	Rubber bellows seal, unbalanced, carbon*/SiC, EPDM
BAQV:	Rubber bellows seal, unbalanced, carbon*/SiC, FKM
AAQE:	O-ring seal, unbalanced, carbon*/SiC, EPDM
AAQV:	O-ring seal, unbalanced, carbon*/SiC, FKM
DAQE:	O-ring seal, balanced, carbon*/SiC, EPDM
DAQV:	O-ring seal, balanced, carbon*/SiC, FKM
SAQE:	Rubber bellows seal, balanced, carbon*/SiC, EPDM
SAQV:	Rubber bellows seal, balanced, carbon*/SiC, FKM
BBQE:	Rubber bellows seal, unbalanced, carbon/SiC, EPDM
BBQV:	Rubber bellows seal, unbalanced, carbon/SiC, FKM
ABQE:	O-ring seal, unbalanced, carbon/SiC, EPDM
ABQV:	O-ring seal, unbalanced, carbon/SiC, FKM
DBQE:	O-ring seal, balanced, carbon/SiC, EPDM
DBQV:	O-ring seal, balanced, carbon/SiC, FKM
SBQE:	Rubber bellows seal, balanced, carbon/SiC, EPDM
SBQV:	Rubber bellows seal, balanced, carbon/SiC, FKM
BQQE:	Rubber bellows seal, unbalanced, SiC/SiC, EPDM
BQQV:	Rubber bellows seal, unbalanced, SiC/SiC, FKM
AQQE:	O-ring seal, unbalanced, SiC/SiC, EPDM
AQQV:	O-ring seal, unbalanced, SiC/SiC, FKM
DQQE:	O-ring seal, balanced, SiC/SiC, EPDM
DQQV:	O-ring seal, balanced, SiC/SiC, FKM
SQQE:	Rubber bellows seal, balanced, SiC/SiC, EPDM
SQQV:	Rubber bellows seal, balanced, SiC/SiC, FKM
BBVP:	Rubber bellows seal, carbon/aluminium oxide, nitrile rubber
SNEK:	Stuffing box with synthetic polymer packing rings, uncooled, with internal barrier fluid

Direction of rotation
(Pump direction of rotation as seen from the motor end)

1:	Clockwise
2:	Counterclockwise

* Antimony, not approved for potable water.

The example shown is an LS 125-100-305F/273.1 standard type with standard coupling, DIN PN 16 flange, cast iron pump casing with SS304 impeller, BBQE mechanical shaft seal and clockwise direction of rotation.

Codes for mechanical shaft seal

Positions (1) - (4) cover four pieces of information about the mechanical shaft seal:

Example	(1)	(2)	(3)	(4)
Grundfos type designation				
Material, rotating seal face				
Material, stationary seat				
Material, secondary seal and other rubber and composite parts				

The following table explains the positions (1), (2), (3) and (4).

Pos.	Type	Short description of seal
(1)	A	O-ring seal, unbalanced
	B	Rubber bellows seal, unbalanced
	D	O-ring seal, balanced
	S	Rubber bellows seal, balanced
	H	Cartridge seal, balanced
Pos.	**Type**	**Material**
(2) and (3)	A	Carbon, metal-impregnated (antimony, not approved for potable water)
	B	Carbon, resin-impregnated (approved for potable water)
	Q	Silicon carbide
	U	Tungsten carbide
	V	Aluminium oxide
Pos.	**Type**	**Material**
(4)	E	EPDM
	P	Nitrile rubber (NBR)
	V	FKM (Viton®)

For other mechanical shaft seal variants, please contact Grundfos.

Codes for stuffing box

Pos.	Code	Short description of stuffing box
1	S	Stuffing box with packing rings
2		**Cooling method**
	N	Uncooled stuffing box
3		**Barrier fluid**
	E	With internal barrier fluid
4	K	Synthetic polymer packing rings, graphite impregnated. NBR O-ring in the pump

6. Construction

Grundfos LS horizontal split-case pumps are available in two different construction types.

The construction types are available with stuffing boxes and packing rings as an option. There are small differences within each construction type. For further information, see detailed exploded views of the variants in Grundfos Product Center.

LS pump, standard construction type 1

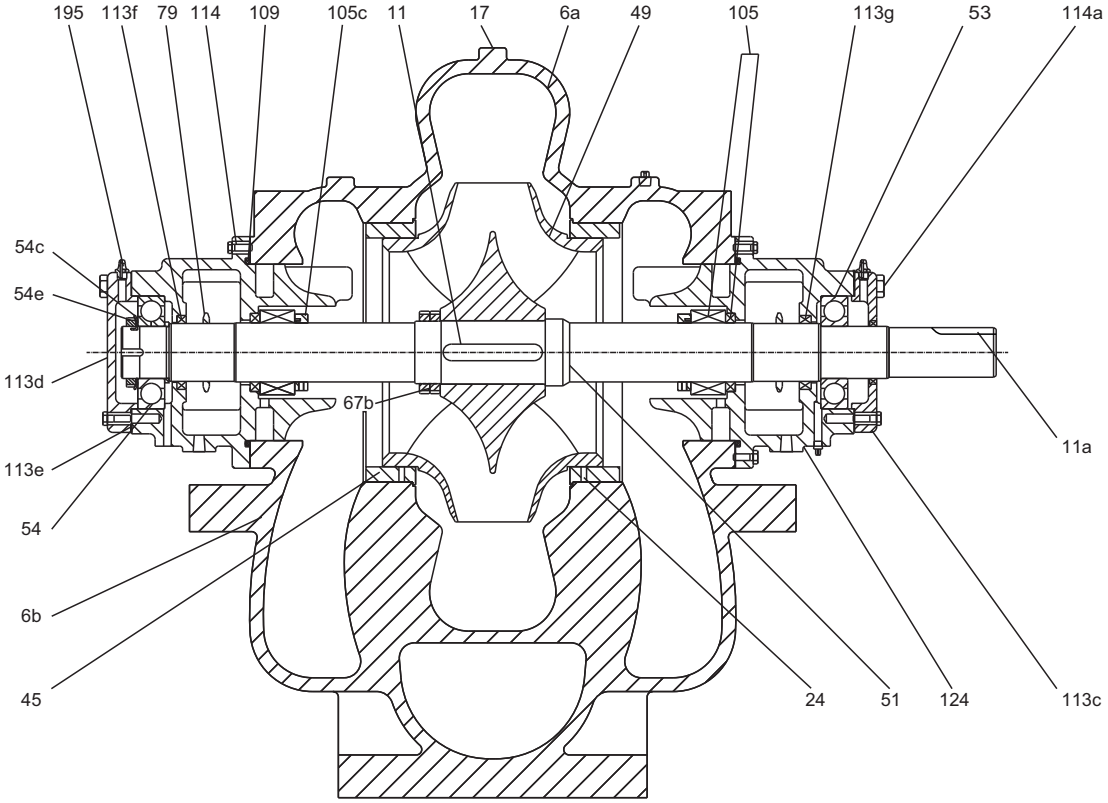

Fig. 8 Sectional drawing, standard construction type 1, with mechanical shaft seals

LS pump, standard construction type 2

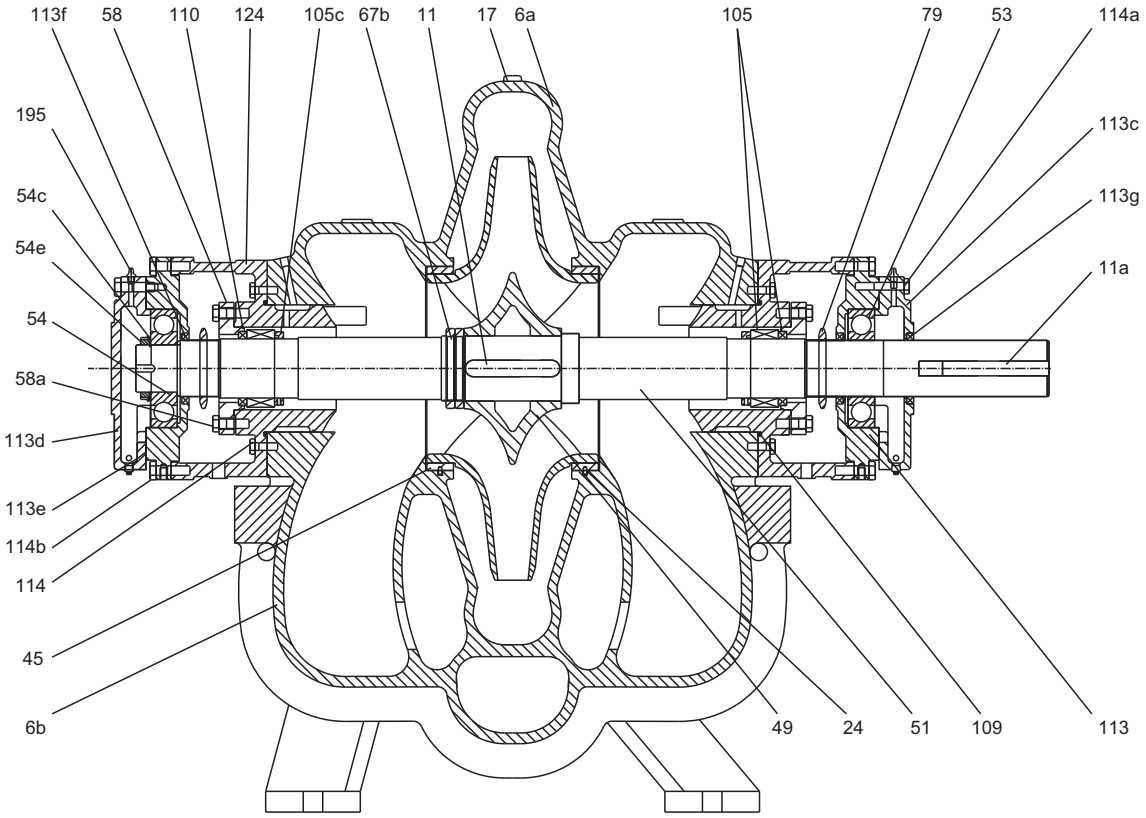

Fig. 9 Sectional drawing, standard construction type 2, with mechanical shaft seals

LS pump, standard construction type 3

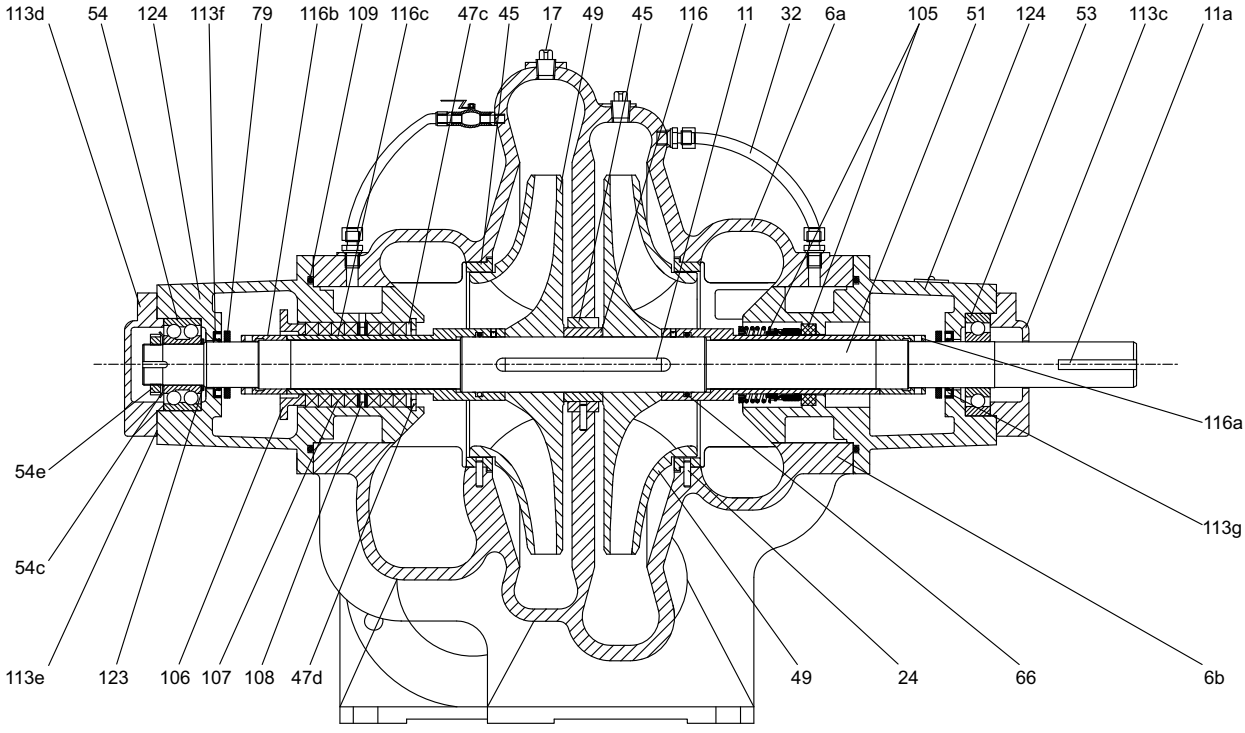

Fig. 10 Sectional drawing, standard construction type 3

LS pump, standard construction type 4

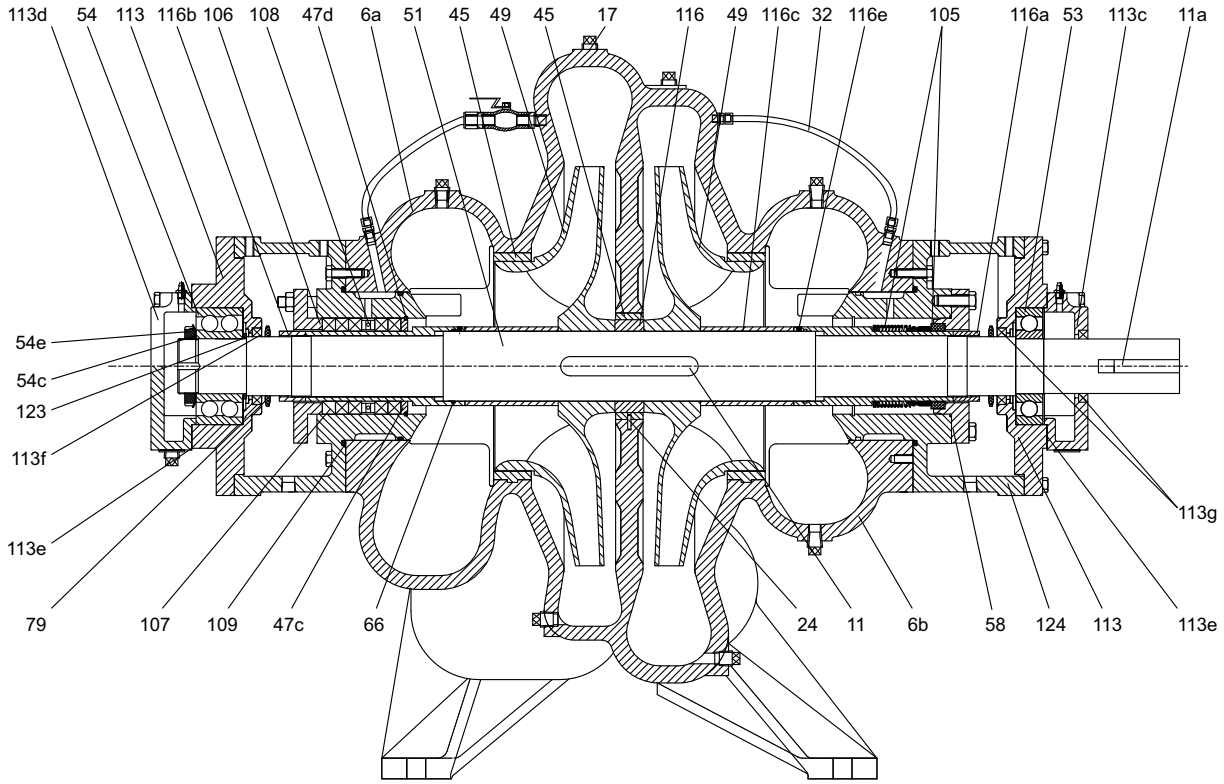

Fig. 11 Sectional drawing, standard construction type 4

LS pump, optional construction type 1

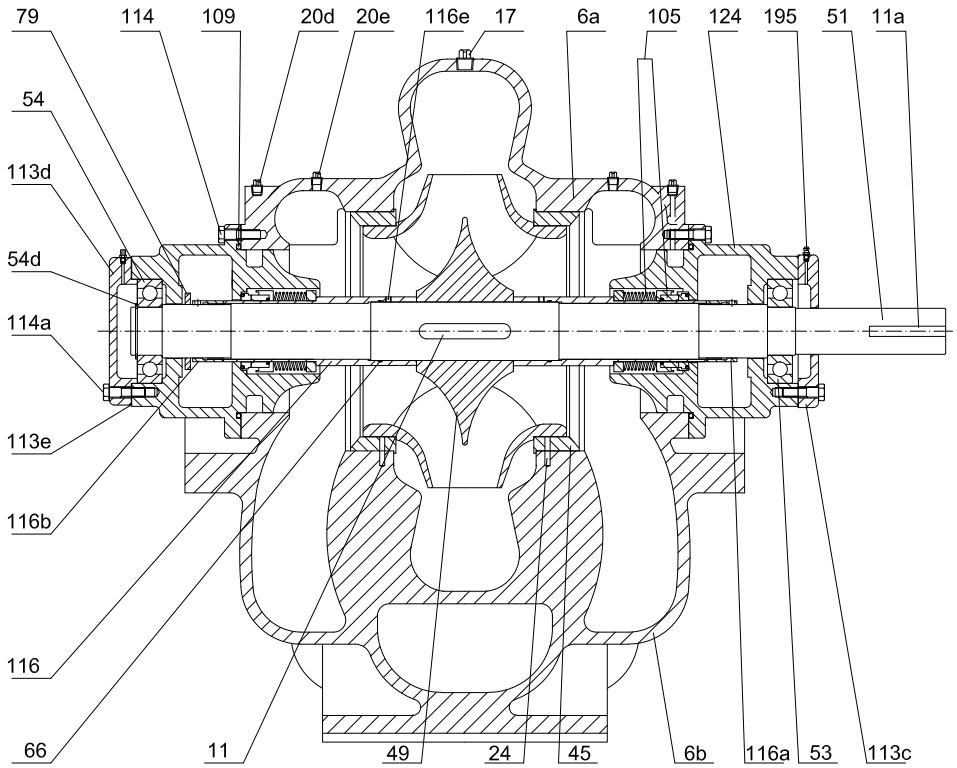

Fig. 12 Sectional drawing, optional construction type 1

LS pump, optional construction type 2

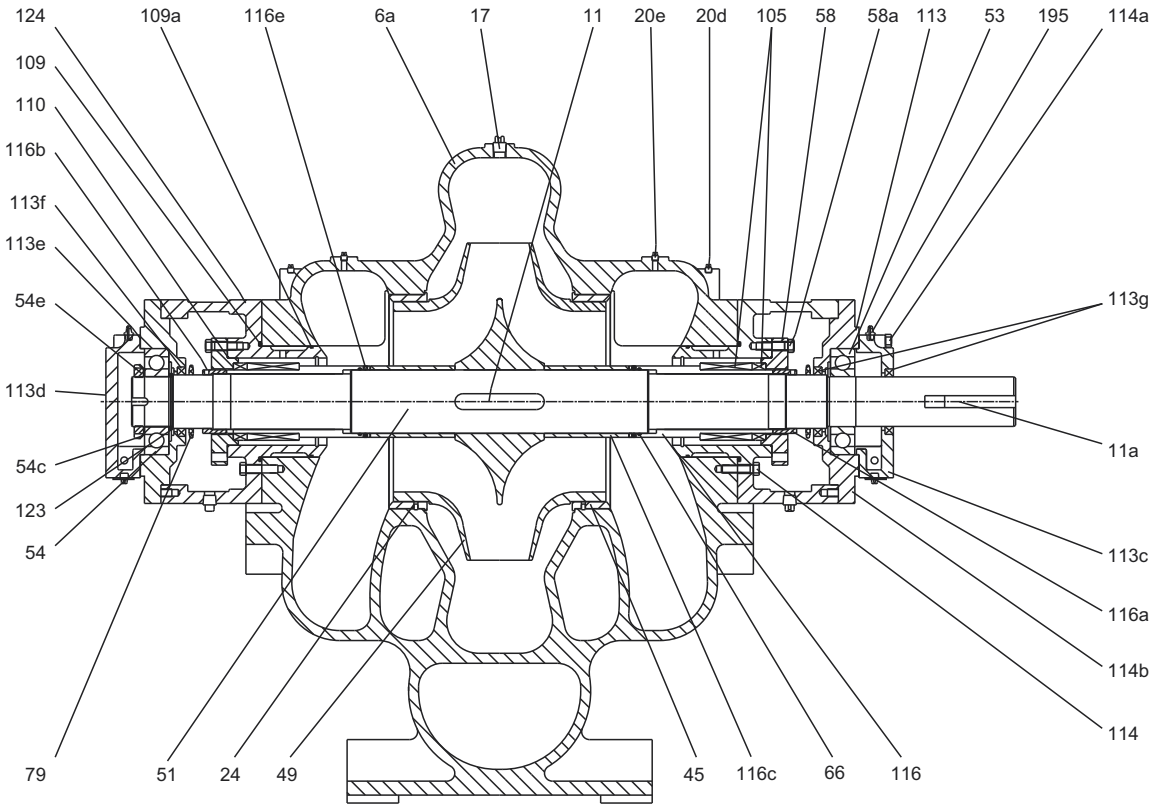

Fig. 13 Sectional drawing, optional construction type 2

LS pump, typical end view

Non-drive end

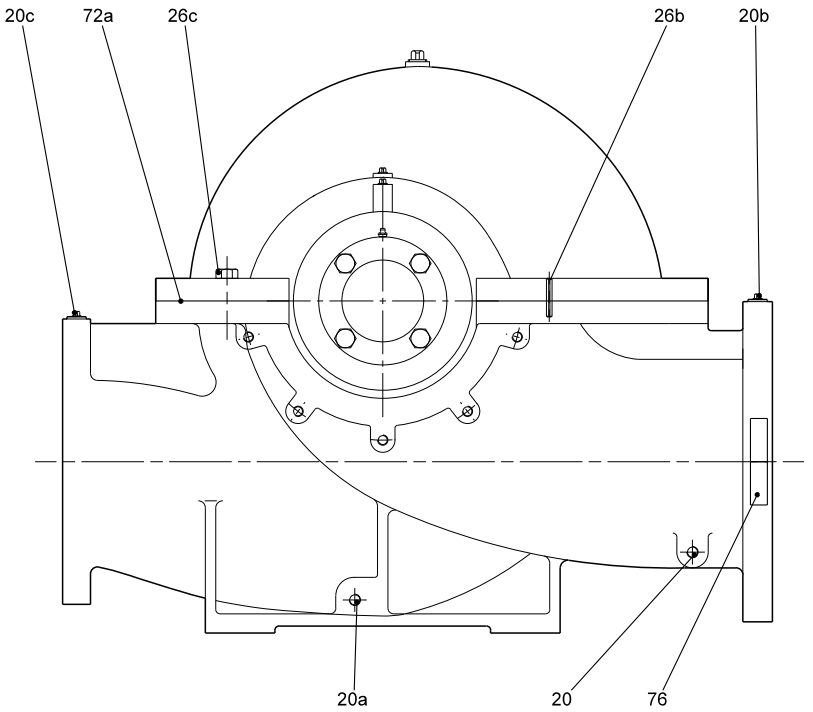

Fig. 14 Typical end view (non-drive end)

Standard components and material specification

Pos.	Description	Material	Material standard
6a	Pump casing, upper	Cast iron	ASTM A48 Class 35
		Ductile iron	ASTM A536, 65-45-12
6b	Pump casing, lower	Cast iron	ASTM A48 Class 35
		Ductile iron	ASTM A536, 65-45-12
11	Key, impeller	Steel	ASTM A216 WCB
11a	Key, coupling	Steel	ASTM A216 WCB
17	Vent screw	Bronze	
20	Drain plug	Steel	
20a	Plug, drain outlet	Steel	
20b	Plug, inlet	Steel	
20c	Plug, outlet	Steel	
20d	Plug, shaft seal flushing	Steel	
20e	Plug, Inlet chamber	Steel	
24	Locking pin, wear ring	Steel	ANSI/ASME B18.8
26b	Roll pin	Steel	ANSI/ASME B18.8
26c	Screw for pump casing	Steel	
32	Flushing pipe	Stainless steel	AISI 304
45	Wear ring	Bronze	ASTM B584, C90500
47c	Retainer for packing	Steel	ASTM A216 WCB
47d	Snap ring for packing	Carbon steel	
49	Impeller	Stainless steel	ASTM CF8
51	Shaft	Stainless steel	AISI 420
53	Bearing, drive end	Steel	
54	Bearing, non-drive end	Steel/bronze	
54c	Lock washer	Steel	
54d	Circlip	Steel	ASTM A216 WCB
54e	Round nut for bearing	Steel	ASTM A216 WCB
58	Seal cover	Cast iron	ASTM A48 Class 35
58a	Screw	Steel	
65	Snap ring	Stainless steel	
66	O-ring for sleeve	NBR	
67b	Round nut for impeller	Stainless steel	
72a	Gasket	Vegetable fibre	
76	Nameplate	Stainless steel	AISI 304
79	Slinger	Neoprene	
105	Shaft seal	BBQV/GBQV	SiC/Carbon
105c	Seal retaining ring	Stainless steel	AISI 304
106	Packing gland	Cast iron	ASTM A48 Class 35
107	Packing ring	PTFE	PTFE
108	Distribution ring	Steel	ASTM A216 WCB
109	O-ring	NBR	
109a	O-ring	NBR	
110	O-ring	NBR	
113	Bearing housing	Cast iron	ASTM A48 Class 35
113c	Bearing cover, drive end	Cast iron	ASTM A48 Class 35
113d	Bearing cover, non-drive end	Cast iron	ASTM A48 Class 35
113e	Gasket	Vegetable fibre	
113f	Lip seal, non-drive end	NBR	
113g	Lip seal, drive end	NBR	
114	Screw for seal housing	Steel	
114a	Screw for bearing cover	Steel	
114b	Screw for bearing housing	Steel	
116	Shaft sleeve	Stainless steel	AISI 304
116a	Locking sleeve, drive end	Stainless steel	AISI 304
116b	Locking sleeve, non-drive end	Stainless steel	AISI 304
116c	Shaft sleeve, inner	Stainless steel	AISI 304
116e	Screw for shaft sleeve	Steel	
123	Shoulder ring	Steel	
124	Seal housing	Cast iron	ASTM A48 Class 35
		Ductile iron	ASTM A536, 65-45-12
195	Lubricating nipple	Bronze	

Mechanical construction

Position numbers in the following section refer to the sectional drawings and material specification mentioned in section *6. Construction*.

Pump casing

The cast iron volute pump casing has radial inlet port and radial outlet port.

The pumps are of the in-line (symmetric) design.

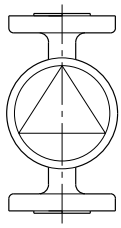

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Fig. 15 Schematic drawing of an in-line LS pump

Flange dimensions are in accordance with EN 1092-2 (DIN 2501).

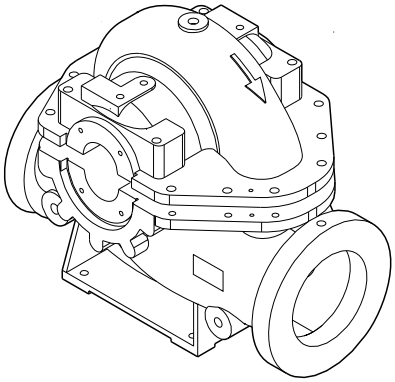

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Fig. 16 Upper and lower pump casing of an LS pump

Shaft

The shaft (51) is of the key and keyway type with one key for the impeller (11) and one key for the coupling (11a).

The shaft is supported by bearings at both the drive end and the non-drive end of the pump.

The shaft is made of stainless steel (AISI 420).

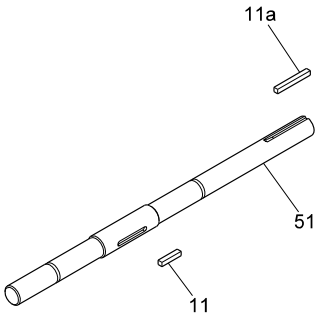

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Fig. 17 LS pump shaft

Bearings

LS pumps are fitted with two standard single-row deep-groove ball bearings. The bearings are of the open type permitting the bearings to be relubricated. The bearings are lubricated by Grundfos prior to delivery.

Seal housings

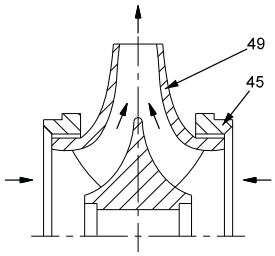
All LS pumps have two seal housings (124), one at the drive end and one at the non-drive end of the pump shaft.

A seal housing has several functions:

- It supports the pump sealing system, whether it is a mechanical shaft seal or a stuffing box.
- It supports the bearing housing, thus transmitting both radial and axial forces from bearing and shaft to the upper and lower pump casing.
- It acts as a connection for the flushing pipe.

Impeller

The LS impeller (49) is a closed double-suction impeller. The impeller has inflow of liquid from both sides and is locked in position by two round nuts



TM03 3891 1106

Fig. 18 Double-suction impeller

All impellers are dynamically balanced in accordance with ANSI/ISO 1940 Class G6.3 standard. Due to their design, the impellers are inherently hydraulically balanced and thus compensate for axial thrust.

All impellers are trimmed to the duty point required by the customer and dynamically balanced together with the shaft.

Wear rings

LS pumps have wear rings (45) between impeller and pump casing.

As the name indicates, the wear rings protect the pump casing against wear. The wear rings act as a seal between impeller and pump casing.

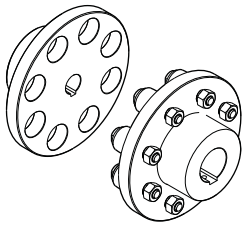
When the wear rings become worn, the efficiency of the pump will be reduced, and the wear rings must be replaced.

Coupling

LS pumps are available with two types of coupling as standard:

- Flexible pin and bush coupling

	2-pole	4-pole	6-pole
50 Hz	≤ 400 kW	≤ 250 kW	≤ 160 kW



TM03 5394 3506

Fig. 19 Flexible pin and bush coupling

- Flexible grid coupling

	2-pole	4-pole	6-pole
50 Hz	> 400 kW	> 250 kW	> 160 kW

TM04 0478 0708

Fig. 20 Flexible grid coupling

Base frame

The pump and the motor are mounted on a common base frame.

Motor

The motor is a totally enclosed, fan-cooled motor with main dimensions according to IEC and DIN standards.

Motor efficiency is categorised according to EN 60034-2-1:2007:

- IE2: MMG motors
- IE3: MG, MMG and Siemens motors
- IE4: Siemens motors.

For special motors, please contact Grundfos.

Mechanical shaft seal

LS pumps are supplied with a BBQE shaft seal as standard.

These shaft seals are available on request:

- BBQV
- BQQE
- BQQV.

Seal face material

Carbon/silicon carbide (xBQx)

Seals with one carbon seal face have the following features:

- brittle material requiring careful handling
- worn by liquids containing solid particles
- good corrosion resistance
- can withstand temporary dry running.

The self-lubricating properties of carbon make the seal suitable for use even with poor lubricating conditions (high temperatures) without generating noise. However, such conditions will cause wear of the carbon seal face leading to reduced seal life.

Secondary seal material

FKM (xxxV)

FKM rubber covers a very wide range of liquids and temperatures and has the following features:

- poor mechanical properties at low temperatures
- resistant to water up to 90 °C
- resistant to mineral oils and vegetable oils
- not resistant to alkaline liquids at high temperatures.

EPDM (xxxE)

EPDM rubber covers a wider range of liquids up to a maximum temperature of 120 °C. EPDM rubber has good mechanical properties.

Stuffing boxes

Stuffing boxes of the SNEK type are available as an alternative to mechanical shaft seals.

The stuffing box includes graphite-impregnated packing rings.

The packing rings consist of braided material which is effective for ensuring a long service life for packing rings while protecting the shaft (sleeve). When fitted, the packing rings are symmetrical, having parallel facings that prevent tilting.

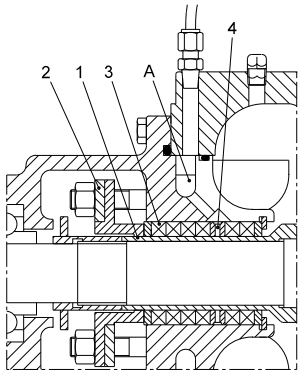


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Fig. 21 Sectional view of a stuffing box with internal flushing liquid

Pos.	Description
1	Shaft sleeve
2	Gland
3	Packing ring
4	Distribution ring
A	Drilled hole for flushing liquid (pumped liquid)

Test pressure

Pressure testing is made with water at 20 °C containing a corrosion inhibitor.

The standard hydrostatic test pressure is 1.5 times higher than the ’closed valve’ or ’shut off’ pressure. However, this may vary from one LS pump to another. See the table below.

Rated pressure	Operating pressure		Test pressure	
	[bar]	[MPa]	[bar]	[MPa]
PN 10	10	1.0	15	1.5
PN 16	16	1.6	24	2.4
PN 25	25	2.5	37	3.7

7. Operating conditions

Ambient temperature and altitude

The ambient temperature and the installation altitude are important factors for the motor lifetime, as they affect the life of the bearings and the insulation system.

If the ambient temperature or the altitude exceeds the recommended maximum ambient temperature or maximum altitude above sea level, the motor must not be fully loaded due to the low density and consequently low cooling effect of the air. See fig. 22. In such cases, it may be necessary to use a motor with a higher output.

Ambient temperature

Motor make	Motor P2	Permissible ambient temperature
MG	0.25 - 0.55 kW	-20 - +40 °C
	0.75 - 22 kW	-20 - +60 °C
Siemens	0.75 - 462 kW	-20 - +55 °C
MMG-H2	0.75 - 450 kW	-20 - +60 °C
MMG-H3	0.75 - 200 kW	-30 - +60 °C
MMG-G2	0.75 - 630 kW	-20 - +60 °C
MMG-G3	0.75 - 315 kW	-20 - +60 °C

Maximum motor output in relation to ambient temperature and altitude

Motor make	Motor P2	Derating curve	
MG	0.25 - 0.55 kW	Fig. 22	curve 1
	0.75 - 22 kW		curve 2
Siemens	0.75 - 462 kW		curve 3
MMG-H2	0.75 - 450 kW		curve 2
MMG-H3	0.75 - 200 kW		curve 2
MMG-G2	0.75 - 630 kW		curve 2
MMG-G3	0.75 - 315 kW		curve 2

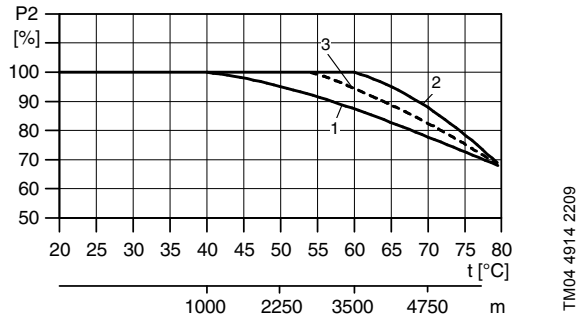

Fig. 22 Relationship between motor output (P2) and ambient temperature

Example

Figure 22 shows that an MG IE3 motor must not be loaded by more than 89 % of the rated output at an ambient temperature of 70 °C. If the pump is installed 4750 metres above sea level, the motor must not be loaded by more than 89 % of the rated output. In cases where both the maximum temperature and the maximum altitude are exceeded, the derating factors must be multiplied (0.89 x 0.89 = 0.79).

Liquid temperatures and shaft seals

The maximum liquid temperature marked on the pump nameplate depends on the mechanical shaft seal used:

- Temperature range for FKM (BBQV - optional): 0-90 °C.
- Temperature range for EPDM (BBQE - optional): 0-120 °C.

Minimum temperature of -25 °C can be achieved for certain applications. Contact the factory for specific information.

Pressure

Maximum operating pressure

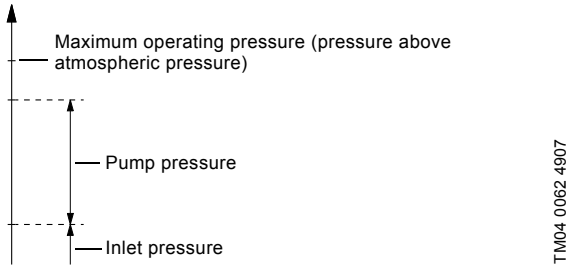

Fig. 23 Pressures in the pump

The inlet pressure + the pump pressure must be lower than the maximum operating pressure (p) stated on the pump nameplate. The maximum operating pressure can be checked by closing the outlet valve briefly (maximum 30 seconds).

Minimum inlet pressure

The minimum inlet pressure must be according to the NPSH curve + correction for vapour pressure + a safety margin of minimum 0.5 metres head. We do, however, recommend that you calculate the inlet pressure in these cases:

- the liquid temperature is high
- the flow rate is considerably higher than the pump's rated flow rate
- the pump is operating in an open system with suction lift
- the liquid is sucked through long pipes
- the inlet conditions are poor
- the operating pressure is low.

Maximum inlet pressure

The inlet pressure + the pump pressure must be lower than the maximum operating pressure (p) stated on the pump nameplate. The maximum operating pressure can be checked by closing the outlet valve briefly (maximum 30 seconds).

Flow rate

Minimum flow rate

The pump must not run against a closed outlet valve, as this will cause an increase in temperature or formation of steam in the pump. This may cause shaft damage, impeller erosion, short life of bearings, stuffing boxes with packing rings or mechanical seals due to stress or vibration.

The minimum, continuous flow rate must be at least 25 % of the flow rate at best-efficiency point (BEP).

Maximum flow rate

The maximum flow rate must not be exceeded as otherwise there is a risk of, for instance, cavitation and overload.

You can read the maximum flow rate either from the performance curve pages or from a curve on a specific pump when selecting it in Grundfos Product Center.

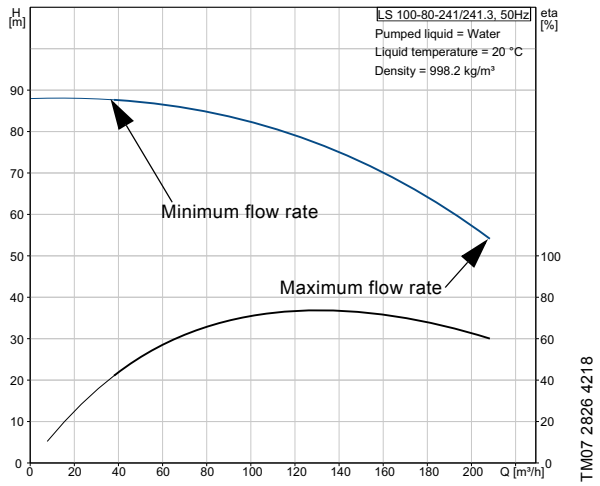

Fig. 24 Example from Grundfos Product Center showing minimum and maximum flow rate

Maximum particle size

The table shows the maximum free passage through the impeller.

Pump type	Maximum free passage through the impeller [mm]
LS 65-50-241	4.8
LS 65-50-330	4.1
LS 100-80-241	7.9
LS 100-80-356	7.9
LS 125-100-279	9.7
LS 125-100-305	19.1
LS 125-100-381	6.4
LS 125-100-388	6.4
LS 150-125-305	16.0
LS 150-125-381	19.1
LS 200-150-305	25.4
LS 200-150-381	20.6
LS 200-150-483	19.1
LS 200-150-508	19.1
LS 250-200-305	22.4
LS 250-200-381	25.4
LS 300-200-489	26.2
LS 300-250-305	25.4
LS 300-250-381	31.8
LS 350-250-498	30.5
LS 350-250-630	29.7
LS 350-300-508	47.5
LS 400-350-397	47.5
LS 450-350-397	47.5
LS 125-100-370x2	14.2
LS 150-125-415x2	14.2
LS 200-150-475x2	17.3
LS 250-200-575x2	22.9

8. Installation

Reference

Please read this section on installation of LS pumps as an overview of the installation requirements to be fulfilled.

For full details on foundation, mechanical installation, alignment, pipes, electrical installation, etc., please refer to the installation and operating instructions for the LS pumps. Installation and operating instructions can be downloaded from the literature section of Grundfos Product Center, or you may contact your local Grundfos company.

Mechanical installation

Vibration dampers

A specific application may call for vibration dampers to prevent pump vibrations from being transmitted to the building or the pipes. In order to select the right vibration damper, you need this information:

- forces transferred through the damper
- motor speed. In case of speed control, this must also be taken into account
- desired dampening in % (recommended value is 70 %).

The selection of vibration damper differs from installation to installation. In certain cases a wrong damper may increase the vibration level. Vibration dampers must therefore be sized by the supplier of the vibration dampers.

Expansion joints

Expansion joints provide these advantages:

- absorption of thermal expansion and contraction of pipes caused by variations in liquid temperature
- reduction of mechanical influences in connection with pressure surges in the pipes
- isolation of structure-borne noise in the pipes (only rubber bellows expansion joints).

Note: Do not use expansion joints to adjust for inaccuracy in the pipes, for instance centre displacement or misalignment of flanges.

The expansion joints must be fitted at a minimum distance of two pipe diameters (DN) away from the pump flange on the inlet side. This prevents turbulence in the joints, thus ensuring optimum inlet conditions.

At flow velocities > 2.4 m/s, we recommend that you fit larger expansion joints matching the pipes.

For pipe sizes above DN 100, we recommend that you use restrained expansion joints to restrict the spring force of the joint itself.

Location

Install the pump as close as possible to the supply of pumped liquid and with the shortest and most direct inlet pipe practical.

Install the pump with sufficient accessibility for inspection and maintenance. Allow ample space and headroom for the use of an overhead crane or hoist sufficiently strong to lift the unit.

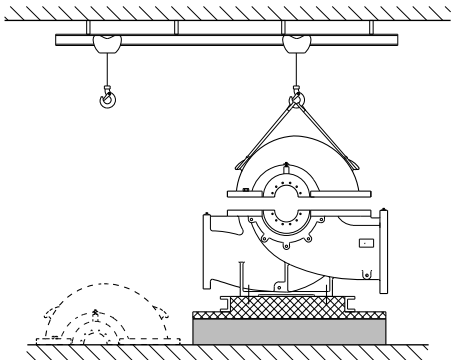

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Fig. 25 LS pump with accessibility for inspection and headroom for the use of an overhead crane

Foundation

We recommend that you install the pump on a concrete foundation which is heavy enough to provide permanent and rigid support for the entire pump. The foundation must be capable of absorbing any vibration, normal strain or shock. We recommend that the weight of the concrete foundation is three times the weight of the complete pump unit. For specific requirements, please consult the contractor or the engineer, or comply with established industry standards.

In installations where silent operation is particularly important, we recommend a foundation with a mass up to five times that of the complete pump unit.

Grouting

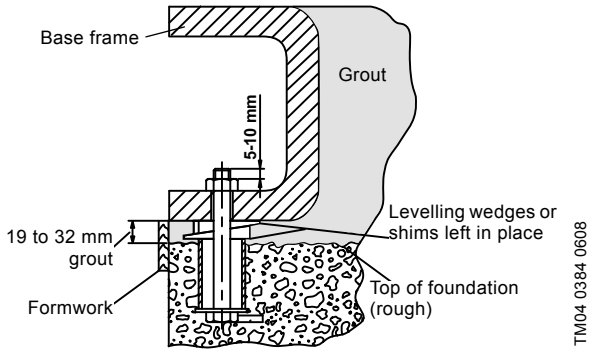

Fig. 26 Sectional view of foundation with anchor bolt, grouting and base frame

Grouting compensates for uneven foundation, distributes the weight of the unit, dampens vibrations and prevents shifting. Use an approved, non-shrinking grout. If you have questions or doubts about the grouting, please contact an expert on grouting.

Measuring instruments

To ensure continuous monitoring of operation, we recommend that you install pressure gauges on the pump inlet and outlet flanges. The pressure gauge on the inlet side must be capable of measuring vacuum. The pressure gauge tappings should only be opened for test purposes. The measuring range of the outlet side pressure gauge must be 20 % above the maximum pump outlet pressure.

When measuring with pressure gauges on the pump flanges, please note that a pressure gauge does not register dynamic pressure (velocity pressure). On LS pumps, the diameters of the inlet and outlet flanges are different, which results in different flow velocities in the two flanges. Consequently, the pressure gauge on the outlet flange will not show the pressure stated in the technical documentation, but a value which may be lower.

Pipes

Inlet and outlet pipe

In order to minimise friction losses and hydraulic noise in the pipes, choose pipes that are one or two sizes larger than the pump inlet and outlet ports. Typically, flow velocities must not exceed 2 m/s (6 ft/sec) for the inlet pipe (port) and 3 m/s (9 ft/sec) for the outlet pipe (port).

Make sure that the NPSH available (NPSHA) is higher than the NPSH required (NPSHR). NPSH = Net Positive Suction Head.

General precautions

When installing the pipes, observe these precautions:

- Always run the pipes direct to the pump.
  Note: Make sure that both inlet and outlet pipes are independently supported near the pump so that no strain is transmitted to the pump when the flange bolts are tightened. Use pipe hangers or other supports with necessary spacing to provide support.
- When expansion joints are used in the pipe system, fit the joints at a minimum distance of two pipe diameters away from the pump on the inlet side. This prevents turbulence in the joints, thus ensuring optimum suction conditions.
- Install pipes as straight as possible and avoid unnecessary bends. Where necessary, use 45 ° or long sweep 90 ° fittings to reduce friction loss.
- Where flanged joints are used, ensure that inside diameters match properly.
- Provide for expansion of pipe material by means of expansion joints on both sides of the pump.
- Always allow sufficient space/accessibility for maintenance and inspection.

Inlet pipes

Note: The sizing and installation of the inlet pipes is extremely important.

Locate the pump below system level whenever possible. This will facilitate priming, assure a steady liquid flow and provide a positive suction head.

Many NPSH problems can be avoided if the inlet pipes are properly installed.

System types

These pumps can be installed in two types of system:

1. Closed systems or open systems where the liquid level is above the pump inlet (flooded systems), meaning that a positive[1)] inlet pressure will be available.
2. Open systems where the liquid level is below the pump inlet (suction lift), meaning that a negative[1)] inlet pressure will be available.

1) Positive or negative inlet pressure in relation to ambient atmospheric pressure.

General inlet pipe guidelines

Avoid air pockets or turbulence in the inlet pipe. Never use reducers in a horizontal inlet pipe as shown in fig. 28. Instead, use an eccentric reducer as illustrated in fig. 27.

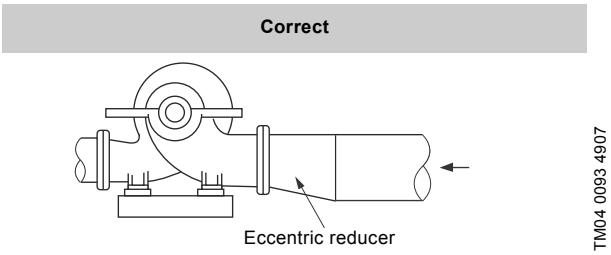

Fig. 27 Correctly mounted reducer

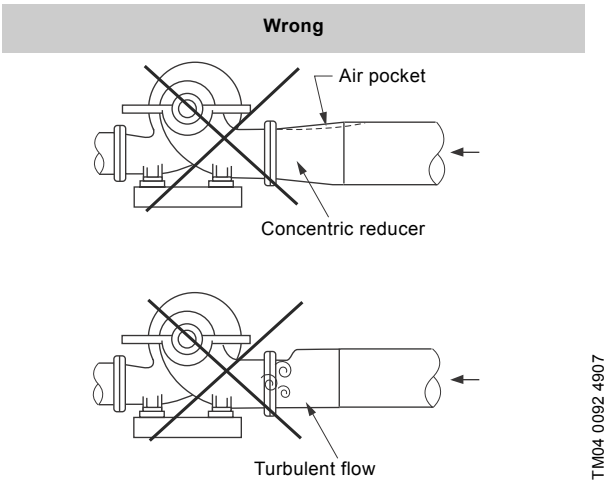

Fig. 28 Reducers resulting in air pockets and turbulence

Flooded systems

(Closed systems and open systems where the liquid level is above the pump inlet).

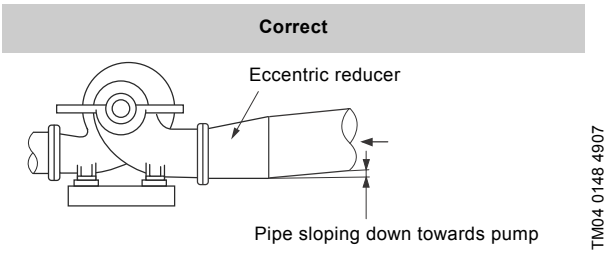

Fig. 29 Correctly mounted inlet pipe

Suction lift systems

(Open systems where the liquid level is below the pump inlet).

Install the inlet pipe sloping upwards towards the inlet port. Any high point in the pipe will be filled with air and thus prevent proper operation of the pump. When reducing the pipes to the inlet port diameter, use an eccentric reducer with the eccentric side down to avoid air pockets

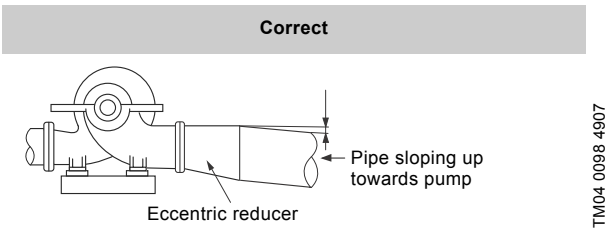

Fig. 30 Correctly mounted inlet pipe

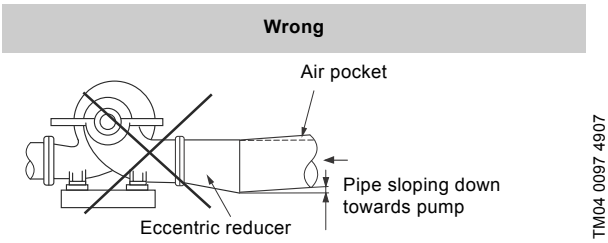

Fig. 31 Inlet pipe resulting in air pockets

Inlet pipes if the feed line comes in different horizontal planes

Avoid high spots, such as loops, as they will collect air and throttle the system or lead to uneven pumping.

Correct

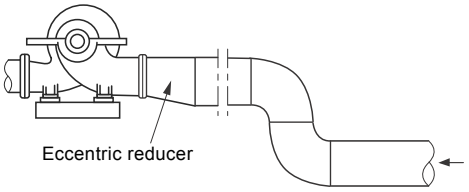

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Fig. 32 Correctly mounted inlet pipe

Wrong

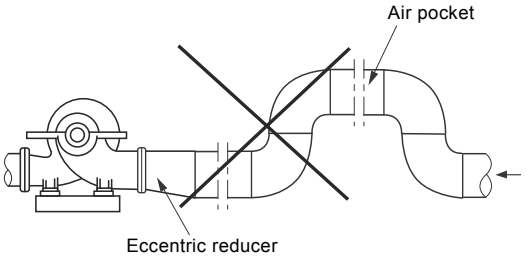

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Fig. 33 Inlet pipe resulting in air pockets

Installations with vertical inlet pipe in confined space

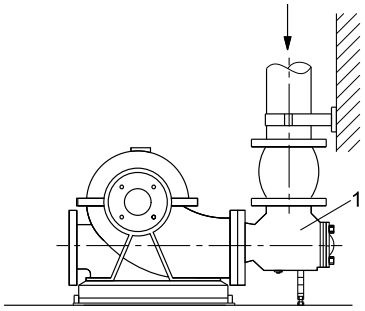

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Fig. 34 Suction diffuser (1) in the inlet pipe

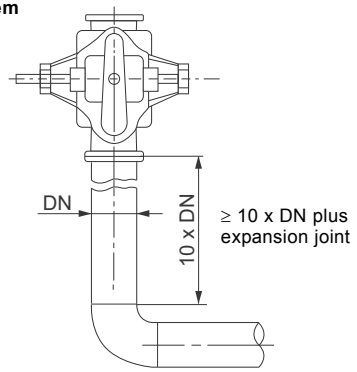
Inlet pipe with a horizontal elbow in the feed line

Make sure that the liquid flow is evenly distributed to both sides of the double-suction impellers.

There is always an uneven, turbulent flow through an elbow. See fig. 36. If an elbow is installed in the inlet pipe near the pump in a position other than vertical, more liquid will enter one side of the impeller than the other. This will result in heavy, unbalanced thrust loads overheating the bearings, causing rapid wear and reducing the hydraulic performance.

Correct

Open system



Closed system

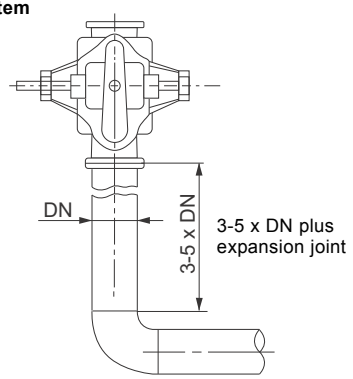


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Fig. 35 Recommended inlet pipe installation with a length of straight pipe between horizontal elbow and pump

Wrong

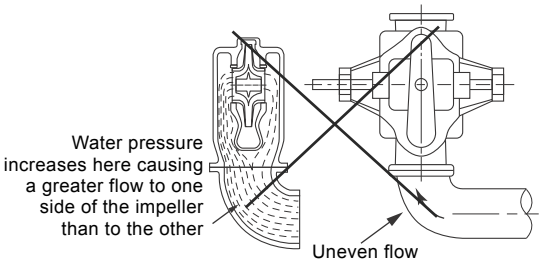

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Fig. 36 Unbalanced loading of a double-suction impeller due to uneven flow through a horizontal elbow close to the pump

Valves in inlet pipes

If the pump is operating under static suction lift conditions, install a non-return valve in the inlet pipe to avoid having to prime the pump each time it is started. The non-return valve must be of the flap type or a foot-valve with a minimum of pressure loss.

Outlet pipes

The outlet pipe is usually preceded by a non-return valve and an outlet isolating or throttle valve. The non-return valve protects the pump against excessive back-pressure and reverse rotation of the pump and prevents back flow through the pump in case of operational stop or failure of the motor.

In order to minimise friction losses and hydraulic noise in the pipes, flow velocities must not exceed 3 m/s (9 ft/sec) in the outlet pipe (port).

On long horizontal runs, it is desirable to keep the pipes as level as possible.

Avoid high spots, such as loops, as they will collect air and throttle the system or lead to uneven pumping.

Auxiliary pipes

1. **Drains**
   Install drain pipes from pump casing and stuffing boxes to a convenient disposal point.
2. **Pumps fitted with stuffing boxes**
   When inlet pressure is below ambient pressure, supply the stuffing boxes with liquid to provide lubrication and prevent the ingress of air. This is normally achieved via a flushing pipe from the pump outlet side to the stuffing box. You may fit a control valve or orifice plate in the flushing pipe to control the pressure to the packing gland/stuffing box.
   If the pumped liquid is dirty and cannot be used for flushing the seals, we recommend a separate clean, compatible liquid supply to the stuffing box at 1 bar (15 psi) above the inlet pressure.
3. **Pumps fitted with mechanical seals**
   Seals requiring re-circulation will normally be provided with a flushing pipe from the pump casing.
   Note: When pumping hot liquids, we recommend that the supply of any external flushing or cooling liquid is continued after stopping the pump. This must be done to avoid seal damage.

9. Selection of product

Pump size

Selection of pump size must be based on the following data:

- required flow rate and pressure
- pressure loss as a result of height differences (geometric lifting height)
- friction loss in the pipes (pipes, bends, valves, etc.)
- best efficiency at the estimated duty point.

Efficiency

If you expect the pump to always operate in the same duty point, select a pump which is operating in a duty point corresponding to the best efficiency of the pump.

In case of varying consumption, select a pump whose best efficiency falls within the duty range covering the greater part of the duty time.

Material

The material variant must be selected on the basis of the liquid to be pumped.

Motor size

The selection of motor size must be based on these parameters:

- flow rate margin, the maximum required flow rate in your application
- motor safety margin.

A selection has to be made for both parameters.

Parameter 1 - flow rate margin in your application

Understanding the operating conditions under which your pump will run is important to ensure long life and trouble-free operation of both pump and motor. The more specific these parameters are understood, the more refined and specific your motor selection can be.

If you intend to run the pump in one specific duty point, the power absorbed in this point (P2) could in theory be your motor's rated power. However, because of the uncertainties in system calculations or the addition of duty conditions around the primary duty point, we recommend that you have a safety margin for P2 power.

To accomplish this, we recommend the following method for motor selection.

1. Select one of the following flow rate margins for your pump:
   - Duty point to the end of the actual curve (default in CAPS)
   - Duty point + 30 %
   - Duty point + 20 %
   - Duty point + 10 %.

Flow rate margin

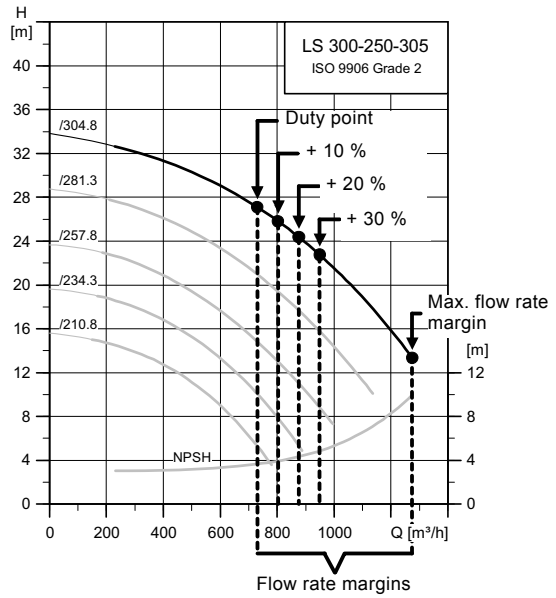


Fig. 37 Selection of a flow rate margin on the basis of conditions around the primary duty point and uncertainties in system calculations

2. Establish P2 for the selected flow rate margin.

Establishing P2

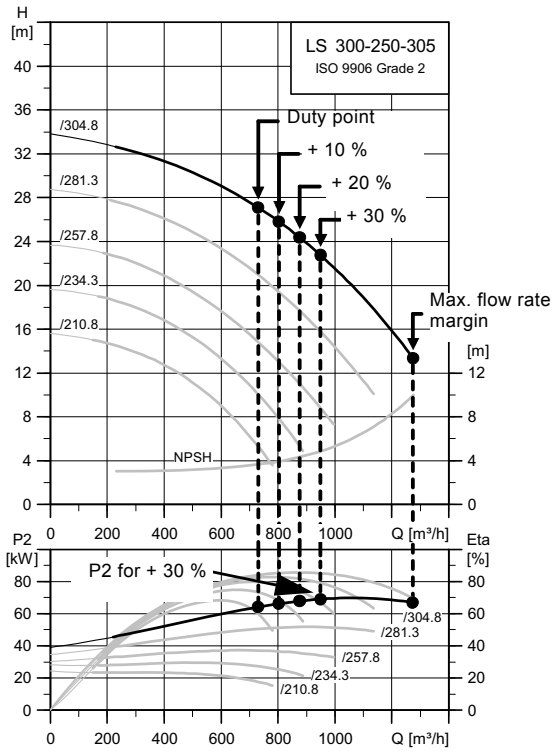


Fig. 38 Establishing P2 for a selected flow rate margin of 30 %

In some cases, however, the input power actually decreases as the flow rate increases. It will thus be found at some other point within this flow range. This is typically the case when the impeller is trimmed to the smallest diameter.

Decrease of P2 with increase of flow rate

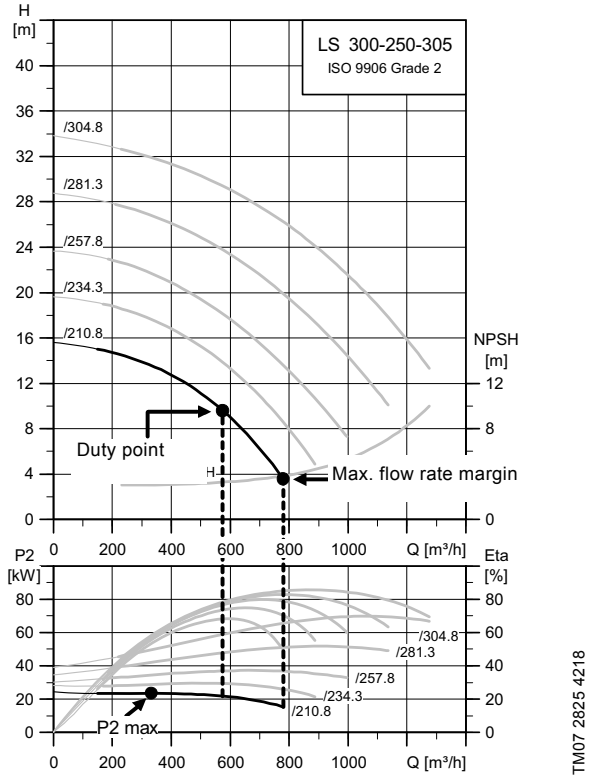


Fig. 39 Establishing the maximum P2 when P2 decreases as the flow rate increases

Parameter 2 - motor safety margin

As with any system, where uncertainties and tolerances exist, the motor safety margin takes the following into account:

- The actual head is at the high end of the tolerance described in ISO 9906. This will increase the required P2.
- Pump efficiency is at the low end of the tolerance described in ISO 9906. This will increase the required P2.
- Motor efficiency is at the low end.

To establish the motor safety margin, select method 1 or alternatively method 2:

Method 1

Add a safety margin as outlined in ISO 5199 to the maximum P2 found when determining parameter 1.

(Grundfos recommends the addition of a safety margin in accordance with this standard; default in Grundfos Product Center.)

Required pump power up to [kW]	Motor power P2 [kW]
568	630
505	560
450	500
405	450
360	400
320	355
284	315
225	250
180	200
144	160
119	132
99	110
81	90
68	75
49	55
40	45
32.5	37
26	30
19	22
15.9	18.5
12.8	15
9.1	11
6.1	7.5
4.3	5.5
3.2	4
2.3	3
1.7	2.2
1.1	1.5

Fig. 40 Safety margins according to ISO 5199

Method 2

Add a 5 % safety margin to the maximum P2 found when determining parameter 1.

If not specified by the customer, the motor size is determined in accordance with the Grundfos Product Center defaults listed above. This means a motor which covers the full performance range and with a motor safety margin according to ISO 5199.

Pumped liquids

We recommend LS pumps for thin, clean and non-aggressive, non-explosive liquids, not containing solid particles or fibres. The liquid must not attack the pump materials chemically or mechanically.

The mechanical shaft seal must be suitable for the liquid.

Water in heating and ventilating systems often contains additives to prevent negative effects such as system corrosion or calcareous deposits. If you want to use the pump for such liquids and if the temperature is above 80 °C, use special shaft seals to avoid crystallisation/precipitation between the seal faces.

Liquid density and viscosity

If you pump liquids with a density and/or viscosity higher than that of water, use motors with correspondingly higher outputs.

The effect of high density on centrifugal pump performance

A high-density liquid only affects the power consumption of a centrifugal pump:

- The head, flow rate and pump efficiency will remain unchanged.
- The power consumption will increase at a ratio corresponding to the increase in density. A liquid with a specific gravity of 1.2 will thus require a 20 % larger power input.
- An oversize motor will often be required.

Grundfos Product Center can help you select the right pump for liquids with a density different from that of water.

The effect of high viscosity on centrifugal pump performance

A high-viscosity liquid affects a centrifugal pump in several ways:

- The power consumption will be increased, i.e. a larger motor is required.
- Head, flow rate and pump efficiency will be reduced.

Grundfos Product Center can help you select the right pump for liquids with a viscosity different from that of water.

10. Performance tests

The requested duty point for every split-case pump is tested according to ISO 9906, Grade 2B, and without certification, and no test report is supplied with the pump.

In case of pumps ordered on the basis of impeller diameter only (no requested duty point), the pump will be tested at the best efficiency point.

The primary duty point is guaranteed by a certified performance test. Additional point(s), on request, are offered for reference only. A testing certificate has to be ordered separately.

Certificates

Certificates have to be confirmed for every order and are available on request as follows:

- certificate of compliance with the order (EN 10204-2.1)
- pump test sheet.

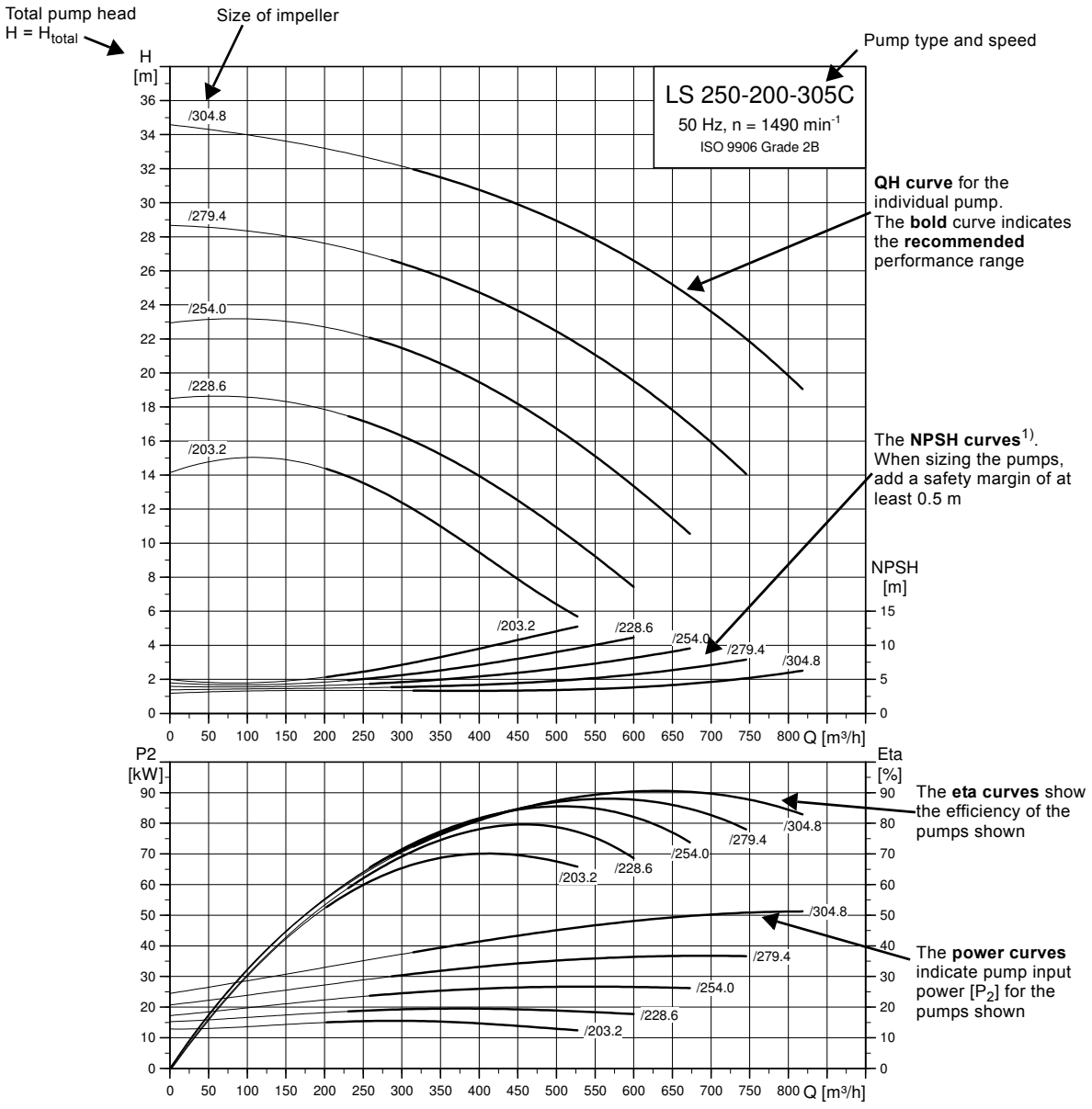
Witness test

When the pumps are being tested or are tested with a certification, it is possible for the customer to witness the testing procedure according to ISO 9906.

If the customer wants to witness the testing of the pump performance, place this request on the order.

11. Introduction to performance curves and technical data

How to read the curve charts



1) For NPSH of other impellers, please contact Grundfos.

Curve conditions

The guidelines below apply to the curves shown in the performance charts on pages 32 to 105.

- Tolerances according to ISO 9906, Grade 2B.
- The curves show pump performance with different impeller diameters at the nominal speed.
- The **bold** part of the curves show the **recommended** operating range.
- Do not operate the pump along the thin parts of the curves. If your duty point lies here, you must select a smaller or larger pump type.
- The curves apply to the pumping of airless water at a temperature of 20 °C and a kinematic viscosity of 1 mm^2/s (1 cSt).
- ETA: The lines show values of the hydraulic efficiency of the pump for the different impeller diameters.
- NPSH: The curves show average values measured under the same conditions as the performance curves.
  When sizing the pump, add a safety margin of at least 0.5 m.
- In case of densities other than 1000 kg/m^3, the outlet pressure is proportional to the density.
- When pumping liquids with a density higher than 1000 kg/m^3, motors with correspondingly higher outputs must be used.

Calculation of total head

The total pump head consists of the height difference between the measuring points + the differential head + the dynamic head.

$$H_{total} = H_{geo} + H_{stat} + H_{dyn}$$

H_{geo}	Height difference between measuring points.
H_{stat}	Differential head between the inlet and the outlet side of the pump.
H_{dyn}	Calculated values based on the velocity of the pumped liquid on the inlet and the outlet side of the pump.

12. Performance curves and technical data

Overview

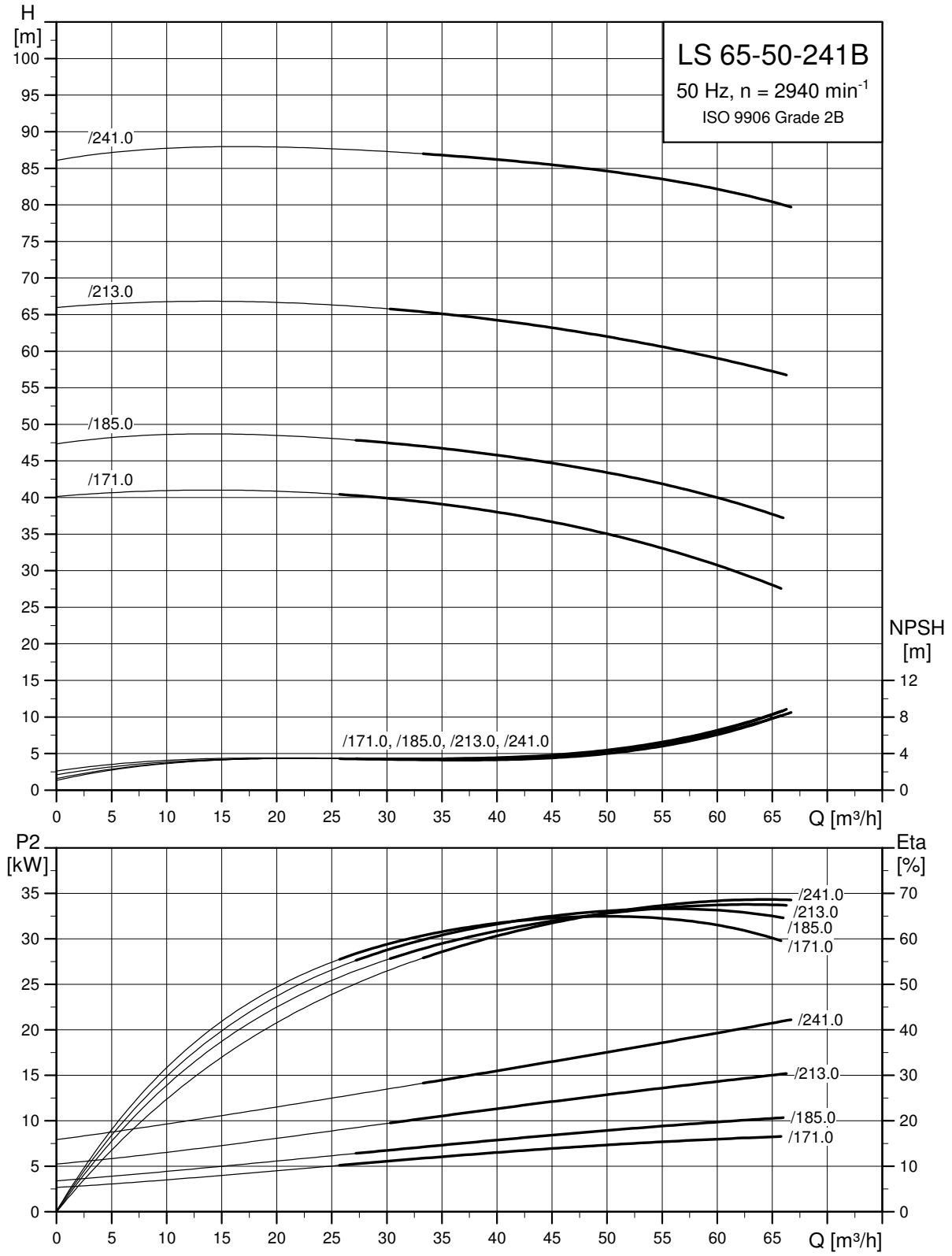
2-pole	
Pump type	**See page**
LS 65-50-241	34
LS 100-80-241	36
LS 125-100-279	38
LS 125-100-305	40

4-pole	
Pump type	**See page**
LS 65-50-241	42
LS 65-50-330	44
LS 100-80-241	46
LS 100-80-356	48
LS 125-100-279	50
LS 125-100-305	52
LS 125-100-381	54
LS 150-125-305	56
LS 150-125-381	58
LS 200-150-305	60
LS 200-150-381	62
LS 200-150-483	64
LS 200-150-508	66
LS 250-200-305	68
LS 250-200-381	70
LS 300-200-489	72
LS 300-250-305	74
LS 300-250-381	76
LS 350-250-498	78
LS 350-250-630	80
LS 450-350-397	82
LS 125-100-370x2	84
LS 150-125-415x2	86
LS 200-150-475x2	88
LS 250-200-575x2	90

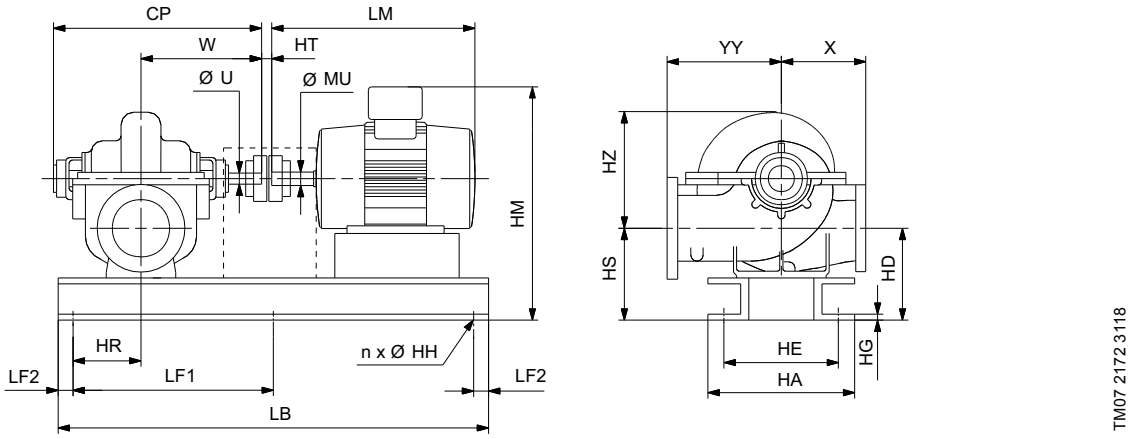
6-pole	
Pump type	**See page**
LS 150-125-381	92
LS 200-150-305	93
LS 200-150-381	94
LS 250-200-305	95
LS 200-150-483	96
LS 200-150-508	98
LS 250-200-381	100
LS 300-200-489	102
LS 300-250-305	104
LS 300-250-381	106
LS 350-250-498	108
LS 350-250-630	110
LS 350-300-508	112
LS 450-350-397	114
LS 200-150-475x2	116
LS 250-200-575x2	118

2-pole

LS 65-50-241



LS 65-50-241 dimensional sketches

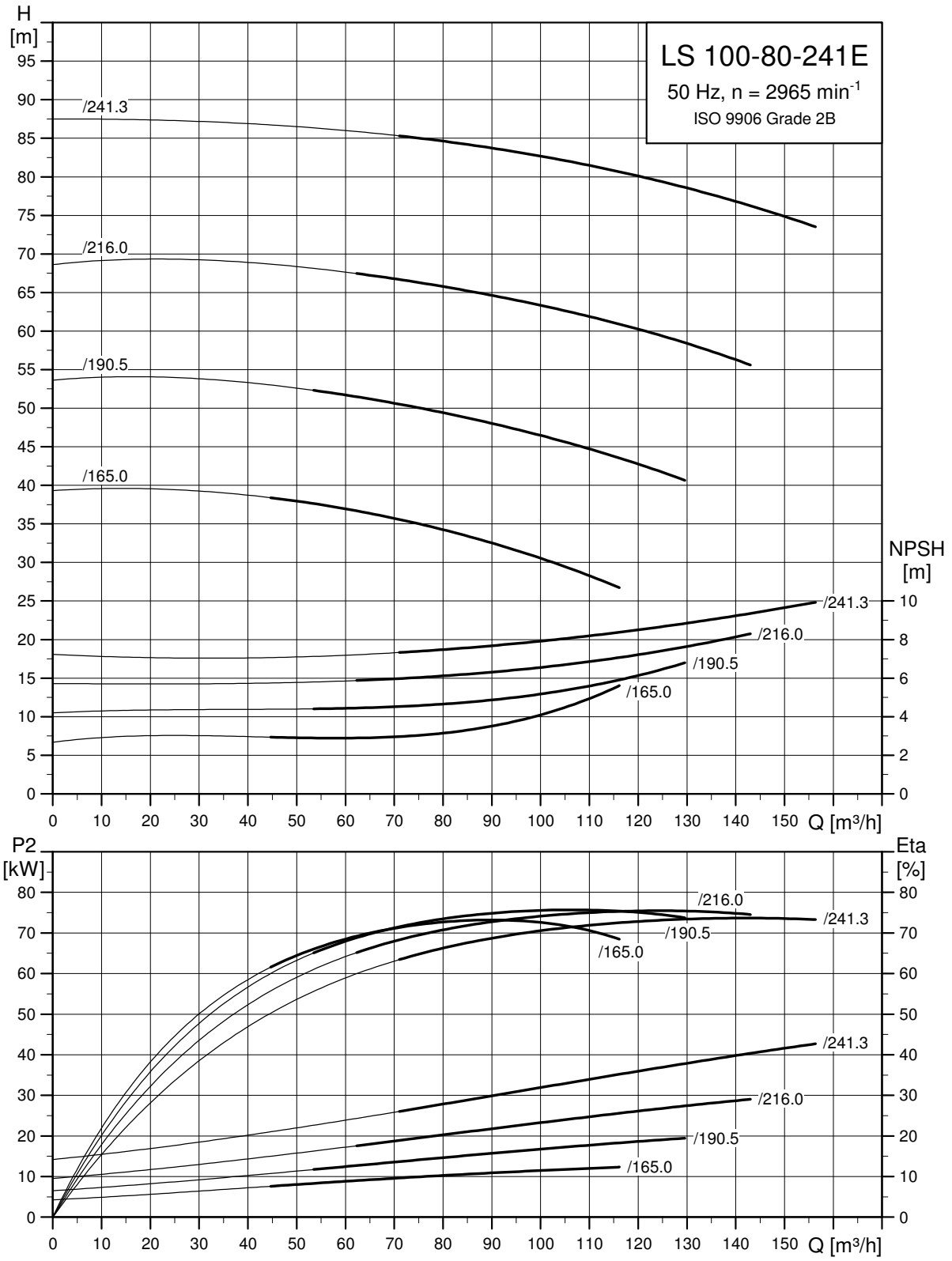


LS 65-50-241 dimensions

Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
11	160MB	MG	2	510	545	305	24	216	216	209	209	270	581	534	42	3
15	160MD	MG	2	510	545	305	24	216	216	209	209	270	581	534	42	3
18.5	160LB	MG	2	510	545	305	24	216	216	209	209	270	625	534	42	3
22	180MB	MG	2	510	545	305	24	216	216	214	214	270	651	589	48	4
30	200L	Siemens	2	510	545	305	24	216	216	234	234	270	769	638	55	4
37	200L	Siemens	2	510	545	305	24	216	216	234	234	270	769	638	55	4
45	225M	Siemens	2	510	545	305	24	216	216	259	259	270	819	686	55	4
11	160MA	MMG-G	2	510	545	305	24	216	216	209	209	270	608	539	42	3
15	160MB	MMG-G	2	510	545	305	24	216	216	209	209	270	608	539	42	3
18.5	160L	MMG-G	2	510	545	305	24	216	216	209	209	270	652	539	42	3
22	180M	MMG-G	2	510	545	305	24	216	216	214	214	270	672	570	48	4
30	200LA	MMG-G	2	510	545	305	24	216	216	234	234	270	770	655	55	4
37	200LB	MMG-G	2	510	545	305	24	216	216	234	234	270	770	655	55	4
45	225MA	MMG-G	2	510	545	305	24	216	216	259	259	270	811	706	55	4

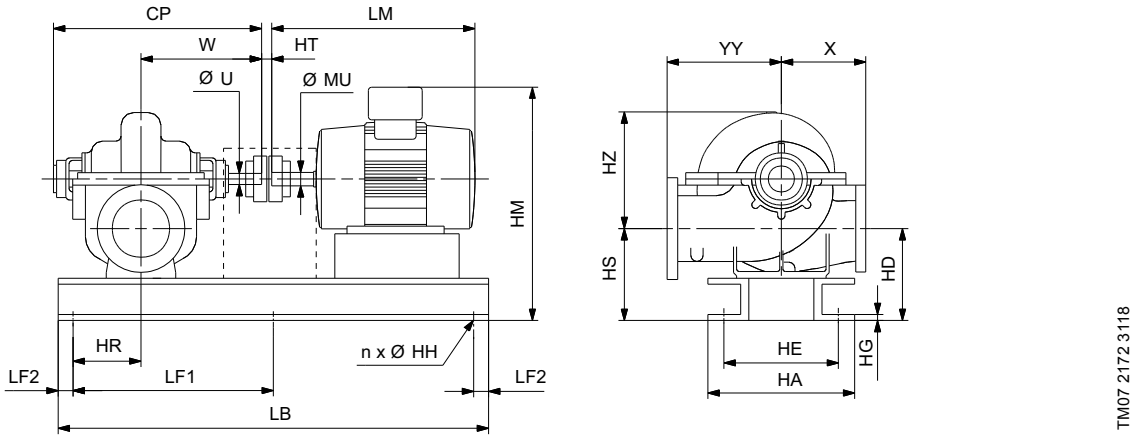
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
11	160MB	MG	2	1120	200	10	-	390	360	8.5	4	18	-	30	9	73	86	222	0.54
15	160MD	MG	2	1120	200	10	-	390	360	8.5	4	18	-	30	9	73	98	234	0.54
18.5	160LB	MG	2	1120	200	10	-	390	360	8.5	4	18	-	30	69	73	111	247	0.57
22	180MB	MG	2	1180	200	18	390	420	376	8.5	6	18	-	22	30	73	126	266	0.62
30	200L	Siemens	2	1230	200	20	415	450	406	8.5	6	18	-	20	35	73	185	328	0.69
37	200L	Siemens	2	1230	200	20	415	450	406	8.5	6	18	-	20	35	73	214	357	0.69
45	225M	Siemens	2	1250	200	20	425	480	436	8.5	6	18	-	20	112	73	330	477	0.79
11	160MA	MMG-G	2	1120	200	10	-	390	360	8.5	4	18	-	30	6	73	130	203	0.830
15	160MB	MMG-G	2	1120	200	10	-	390	360	8.5	4	18	-	30	6	73	130	203	0.830
18.5	160L	MMG-G	2	1120	200	10	-	390	360	8.5	4	18	-	30	50	73	140	213	0.859
22	180M	MMG-G	2	1180	200	18	390	420	376	8.5	6	18	-	22	19	73	180	253	0.908
30	200LA	MMG-G	2	1230	200	20	415	450	406	8.5	6	18	-	20	69	73	265	338	1.092
37	200LB	MMG-G	2	1230	200	20	415	450	406	8.5	6	18	-	20	69	73	300	373	1.092
45	225MA	MMG-G	2	1250	200	20	425	480	436	8.5	6	18	-	20	90	73	340	413	1.227

LS 100-80-241



TM07 2626 4018

LS 100-80-241 dimensional sketches



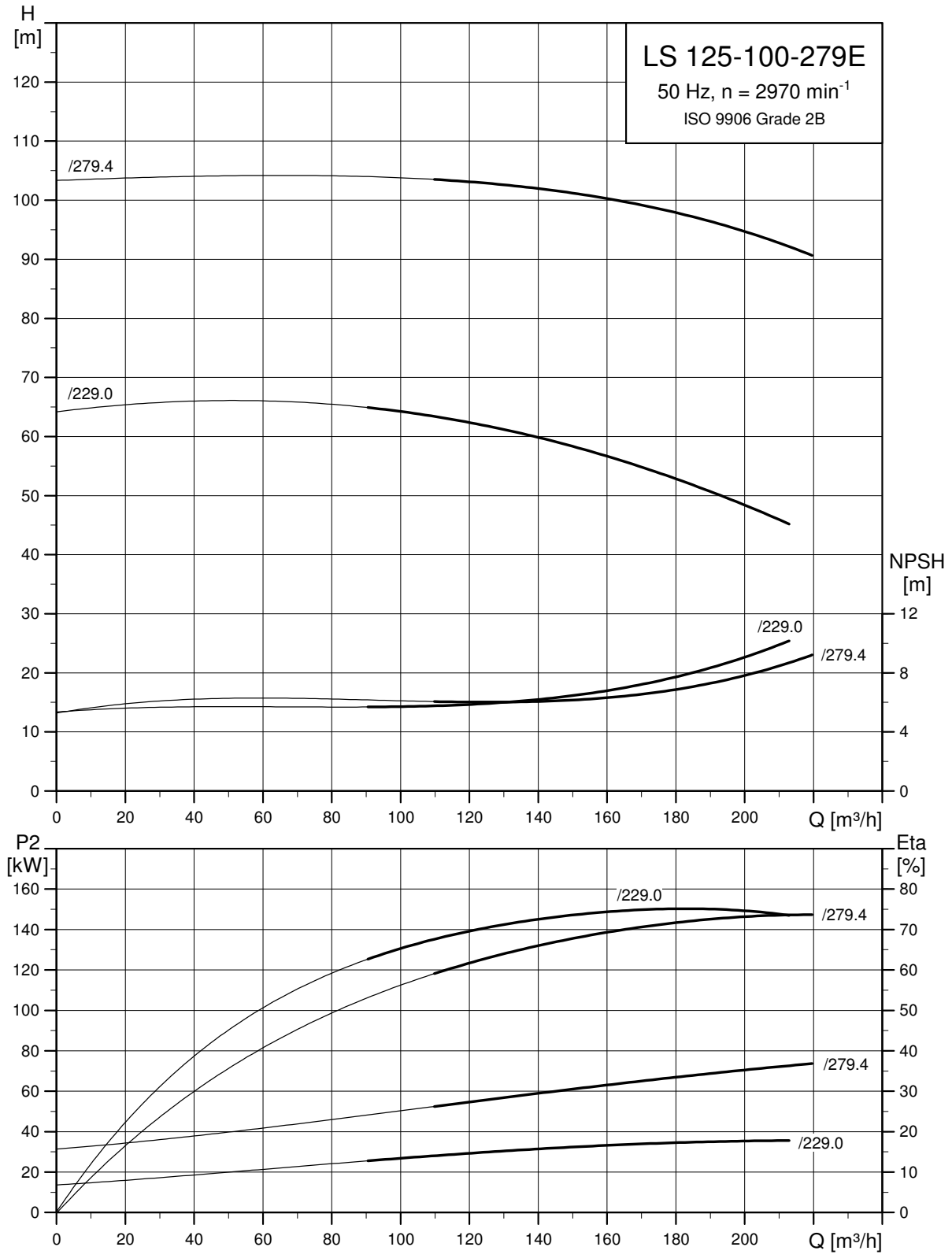
TM07 2172 3118

LS 100-80-241 dimensions

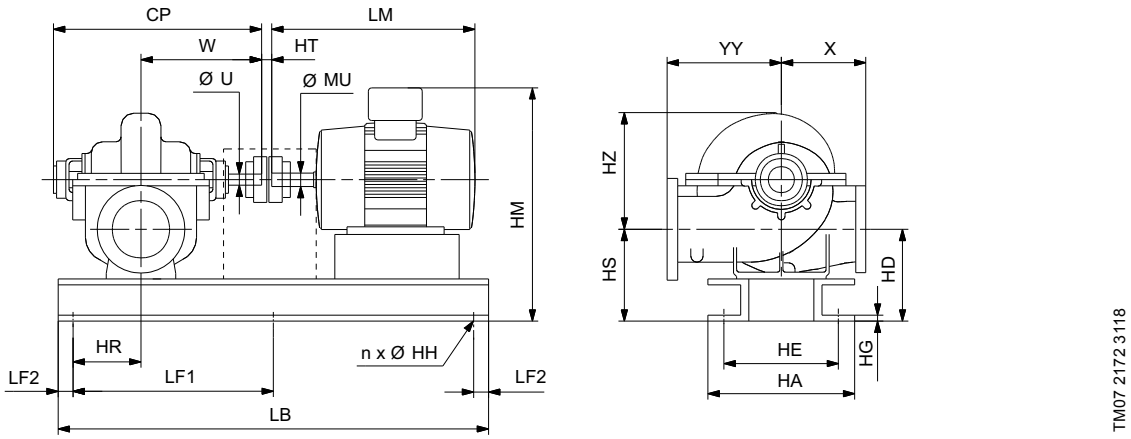
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
15	160MD	MG	2	510	545	305	24	279	279	222	222	290	581	560	42	3
18.5	160LB	MG	2	510	545	305	24	279	279	222	222	290	625	560	42	3
22	180MB	MG	2	510	545	305	24	279	279	222	222	290	651	609	48	4
30	200L	Siemens	2	510	545	305	24	279	279	222	222	290	769	638	55	4
37	200L	Siemens	2	510	545	305	24	279	279	222	222	290	769	638	55	4
45	225M	Siemens	2	510	545	305	24	279	279	246	246	290	819	686	55	4
55	250M	Siemens	2	510	545	305	24	279	279	271	271	290	887	783	60	4
75	280S	Siemens	2	510	545	305	24	279	279	316	316	290	960	851	65	4
15	160MB	MMG-G	2	510	545	305	24	279	279	222	222	290	608	564	42	3
18.5	160L	MMG-G	2	510	545	305	24	279	279	222	222	290	652	564	42	3
22	180M	MMG-G	2	510	545	305	24	279	279	222	222	290	672	590	48	4
30	200LA	MMG-G	2	510	545	305	24	279	279	222	222	290	770	655	55	4
37	200LB	MMG-G	2	510	545	305	24	279	279	222	222	290	770	655	55	4
45	225MA	MMG-G	2	510	545	305	24	279	279	247	247	290	811	706	55	4
55	250MA	MMG-G	2	510	545	305	24	279	279	272	272	290	921	773	60	4
75	280SA	MMG-G	2	510	545	305	24	279	279	317	317	290	1037.5	851	65	4

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
15	160MD	MG	2	1130	200	20	365	390	346	8.5	6	18	-	20	9	80	98	241	0.68
18.5	160LB	MG	2	1130	200	20	365	390	346	8.5	6	18	-	20	69	80	111	254	0.71
22	180MB	MG	2	1150	200	20	375	390	346	8.5	6	18	-	20	62	80	126	270	0.77
30	200L	Siemens	2	1230	200	20	-	460	425	8.5	4	18	-	20	35	80	185	343	0.83
37	200L	Siemens	2	1230	200	20	-	460	425	8.5	4	18	-	20	35	80	214	372	0.83
45	225M	Siemens	2	1230	200	20	415	480	436	8.5	6	18	-	20	132	80	330	480	0.94
55	250M	Siemens	2	1350	200	20	475	550	506	8.5	6	18	-	20	90	80	420	588	1.11
75	280S	Siemens	2	1450	200	20	525	640	600	9	6	23	-	20	63	80	530	725	1.25
15	160M	MMG-G	2	1130	200	20	365	390	346	8.5	6	18	-	20	6	80	130	210	1.008
18.5	160L	MMG-G	2	1130	200	20	365	390	346	8.5	6	18	-	20	50	80	140	220	1.043
22	180MA	MMG-G	2	1150	200	20	375	390	346	8.5	6	18	-	20	51	80	180	260	1.089
30	200LA	MMG-G	2	1230	200	20	-	460	425	8.5	4	18	-	20	69	80	265	345	1.249
37	200LA	MMG-G	2	1230	200	20	-	460	425	8.5	4	18	-	20	69	80	300	380	1.249
45	225MA	MMG-G	2	1230	200	20	415	480	436	8.5	6	18	-	20	110	80	340	420	1.350
55	250SA	MMG-G	2	1350	200	20	475	550	506	8.5	6	18	-	20	100	80	465	545	1.541
75	250MA	MMG-G	2	1450	200	20	525	640	600	9	6	23	-	20	116	80	553	633	1.937

LS 125-100-279



LS 125-100-279 dimensional sketches

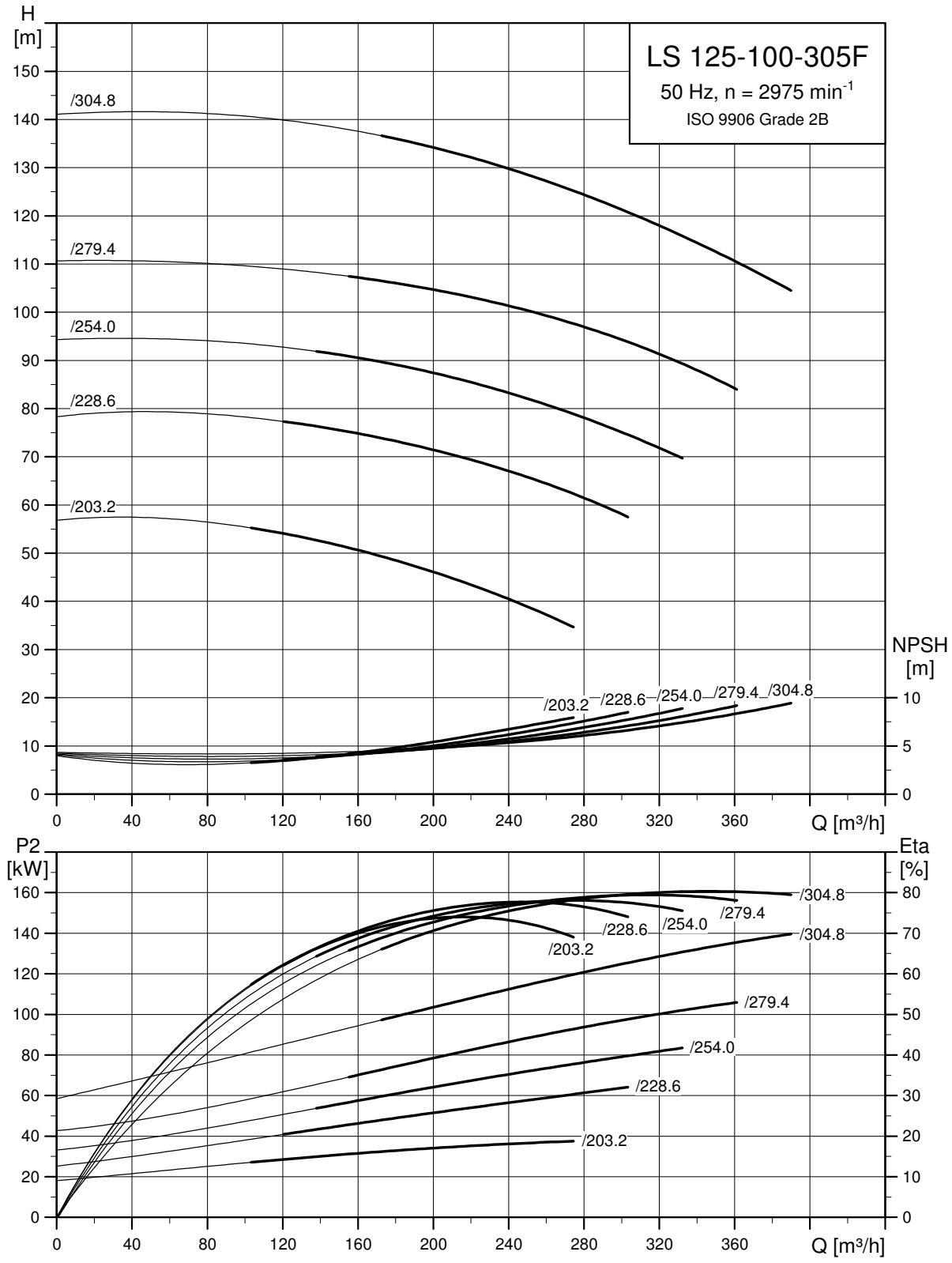


LS 125-100-279 dimensions

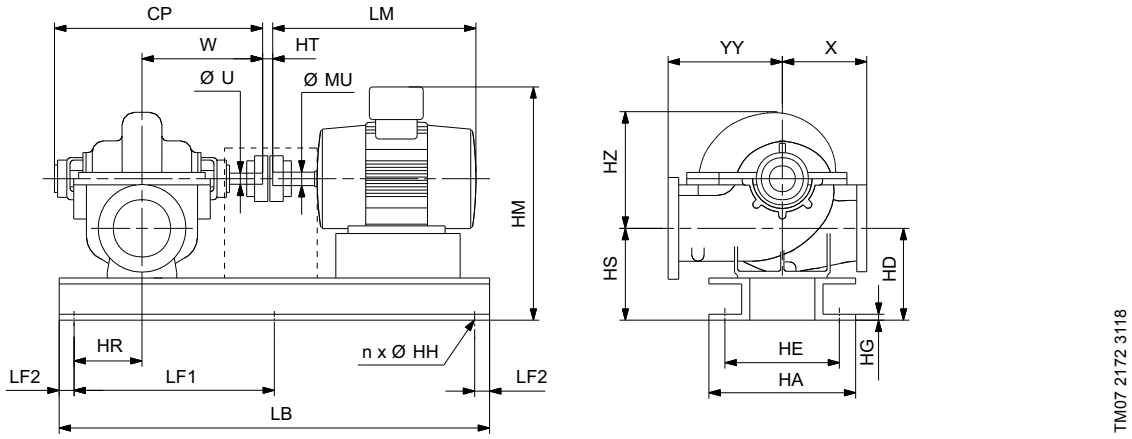
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
18.5	160LB	MG	2	510	545	368	34	305	305	244	244	290	625	634	42	3
22	180MB	MG	2	510	545	368	34	305	305	244	244	290	651	663	48	4
30	200L	Siemens	2	510	545	368	34	305	305	244	244	290	769	692	55	4
37	200L	Siemens	2	510	545	368	34	305	305	244	244	290	769	692	55	4
45	225M	Siemens	2	510	545	368	34	305	305	244	244	290	819	715	55	4
55	250M	Siemens	2	510	545	368	34	305	305	264	264	290	887	807	60	4
75	280S	Siemens	2	510	545	368	34	305	305	290	290	290	960	856	65	4
18.5	160L	MMG-G	2	631	674	368	34	305	305	244	244	370	652	618	42	3
22	180M	MMG-G	2	631	674	368	34	305	305	244	244	370	672	644	48	4
30	200LA	MMG-G	2	631	674	368	34	305	305	244	244	370	770	709	55	4
37	200LB	MMG-G	2	631	674	368	34	305	305	244	244	370	770	709	55	4
45	225MA	MMG-G	2	631	674	368	34	305	305	244	244	370	811	735	55	4
55	250MA	MMG-G	2	631	674	368	34	305	305	264	264	370	921	797	60	4
75	280SA	MMG-G	2	631	674	368	34	305	305	290	290	370	1037.5	856	65	4
90	280MA	MMG-G	2	631	674	368	34	305	305	290	290	370	1037.5	856	65	30

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
18.5	160LB	MG	2	1250	200	50	425	334	286	9	6	18	13	56	45	164	126	354	0.94
22	180MB	MG	2	1280	200	50	440	390	346	8.5	6	18	13	56	28	164	185	422	0.99
30	200L	Siemens	2	1320	200	51	460	435	394	8.5	6	23	13	56	41	164	214	461	1.04
37	200L	Siemens	2	1320	200	51	460	435	394	8.5	6	23	13	56	41	164	330	577	1.06
45	225M	Siemens	2	1350	200	51	-	485	446	8.5	4	23	13	56	108	164	420	659	1.20
55	250M	Siemens	2	1450	200	51	525	560	526	9	6	23	13	56	86	164	530	799	1.39
75	280S	Siemens	2	1550	200	51	575	610	570	9	6	23	13	56	59	164	615	891	1.44
18.5	160L	MMG-G	2	1250	200	50	425	334	286	9	6	18	13	56	23	164	140	304	1.264
22	180M	MMG-G	2	1280	200	50	440	390	346	8.5	6	18	13	56	14	164	180	344	1.317
30	200LA	MMG-G	2	1320	200	51	460	435	394	8.5	6	23	13	56	72	164	265	429	1.498
37	200LB	MMG-G	2	1320	200	51	460	435	394	8.5	6	23	13	56	72	164	300	464	1.498
45	225MA	MMG-G	2	1350	200	51	-	485	446	8.5	4	23	13	56	83	164	340	504	1.576
55	250MA	MMG-G	2	1450	200	51	525	560	526	9	6	23	13	56	93	164	465	629	1.780
75	280SA	MMG-G	2	1550	200	51	575	610	570	9	6	23	13	56	110	164	553	717	2.000
90	280MA	MMG-G	2	1550	200	47	575	600	550	8	6	18	16	59	133	164	620	784	2.029

LS 125-100-305



LS 125-100-305 dimensional sketches



TM07 2172 3118

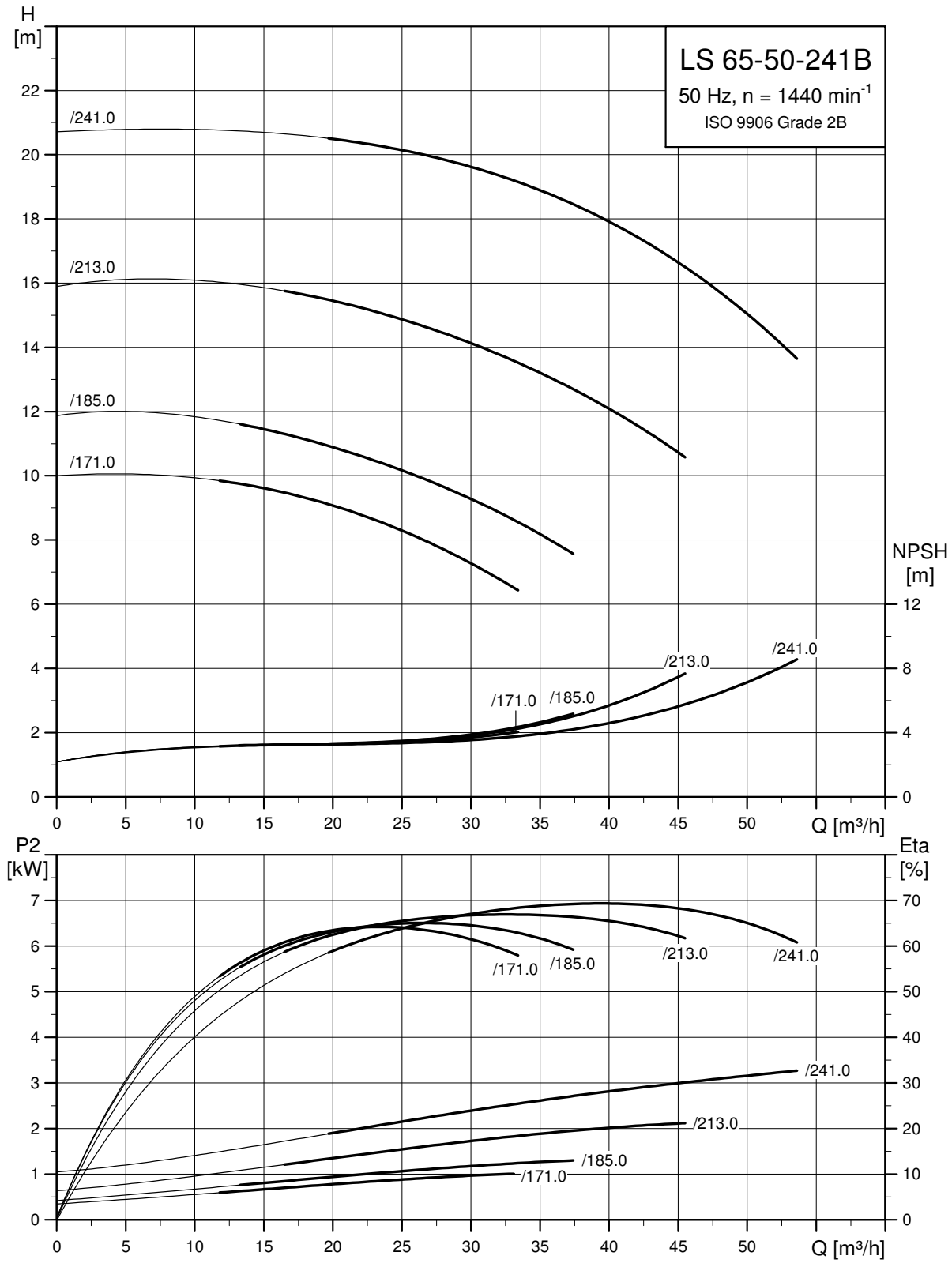
LS 125-100-305 dimensions

Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
30	200L	Siemens	2	631	674	368	34	305	305	244	244	370	769	692	55	4
37	200L	Siemens	2	631	674	368	34	305	305	244	244	370	769	692	55	4
45	225M	Siemens	2	631	674	368	34	305	305	244	244	370	819	715	55	4
55	250M	Siemens	2	631	674	368	34	305	305	264	264	370	887	807	60	4
75	280S	Siemens	2	631	674	368	34	305	305	290	290	370	960	856	65	4
90	280M	Siemens	2	631	674	368	34	305	305	290	290	370	1070	856	65	4
110	315S	Siemens	2	631	674	368	34	305	305	325	325	370	1052	970	65	4
132	315M	Siemens	2	631	674	368	34	305	305	325	325	370	1217	970	65	4
160	315L	Siemens	2	631	674	368	34	305	305	325	325	370	1217	970	65	4
30	200LA	MMG-G	2	631	674	368	34	305	305	244	244	370	770	709	55	4
37	200LB	MMG-G	2	631	674	368	34	305	305	244	244	370	770	709	55	4
45	225MA	MMG-G	2	631	674	368	34	305	305	244	244	370	811	735	55	4
55	250MA	MMG-G	2	631	674	368	34	305	305	264	264	370	921	797	60	4
75	280SA	MMG-G	2	631	674	368	34	305	305	290	290	370	1037.5	856	65	4
90	280MA	MMG-G	2	631	674	368	34	305	305	290	290	370	1037.5	856	65	4
110	315SA	MMG-G	2	631	674	368	34	305	305	325	325	370	1216	986	65	4
132	315MA	MMG-G	2	631	674	368	34	305	305	325	325	370	1266	986	65	4
160	315LA	MMG-G	2	631	674	368	34	305	305	325	325	370	1366	986	65	4

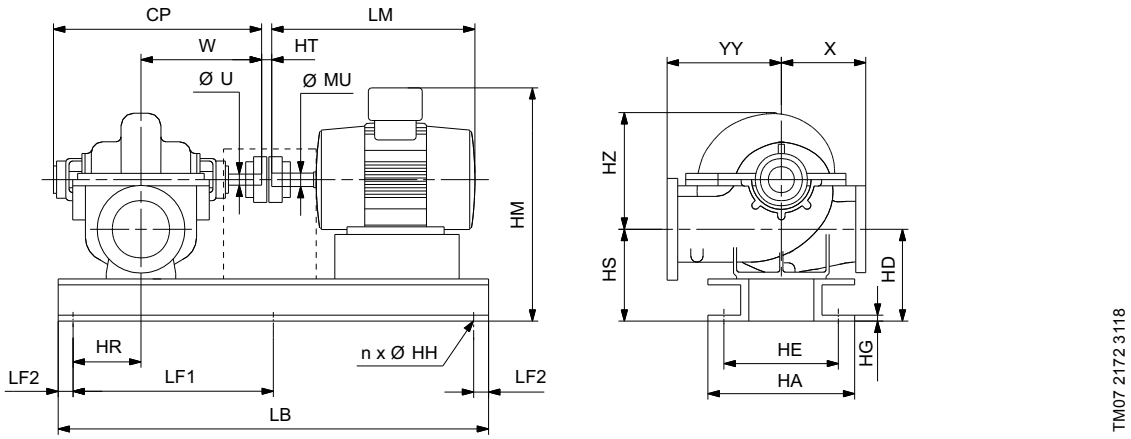
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
30	200L	Siemens	2	1320	200	51	460	435	394	8.5	6	23	13	56	41	164	185	432	1.04
37	200L	Siemens	2	1320	200	51	460	435	394	8.5	6	23	13	56	41	164	214	461	1.04
45	225M	Siemens	2	1350	200	51	-	485	446	8.5	4	23	13	56	108	164	330	569	1.13
55	250M	Siemens	2	1450	200	51	525	560	526	9	6	23	13	56	86	164	420	689	1.32
75	280S	Siemens	2	1550	200	51	575	610	570	9	6	23	13	56	59	164	530	806	1.44
90	280M	Siemens	2	1550	200	51	575	610	570	9	6	23	13	56	169	164	615	891	1.53
110	315S	Siemens	2	1600	200	50.5	600	650	600	9	6	23	13	56	99	164	840	1124	2.49
132	315M	Siemens	2	1600	200	50.5	600	650	600	9	6	23	13	56	264	164	900	1184	2.75
160	315L	Siemens	2	1600	200	50.5	600	650	600	9	6	23	13	56	264	164	980	1264	2.82
30	200LA	MMG-G	2	1320	200	51	460	435	394	8.5	6	23	13	56	72	164	265	429	1.498
37	200LB	MMG-G	2	1320	200	51	460	435	394	8.5	6	23	13	56	72	164	300	464	1.498
45	225MA	MMG-G	2	1350	200	51	-	485	446	8.5	4	23	13	56	83	164	340	504	1.576
55	250MA	MMG-G	2	1450	200	51	525	560	526	9	6	23	13	56	93	164	465	629	1.780
75	280SA	MMG-G	2	1550	200	51	575	610	570	9	6	23	13	56	110	164	553	717	2.000
90	280MA	MMG-G	2	1550	200	51	575	610	570	9	6	23	13	56	110	164	620	784	2.000
110	315SA	MMG-G	2	1600	200	51	600	660	620	9	6	23	12	55	239	164	900	1064	2.565
132	315MA	MMG-G	2	1600	200	51	600	660	620	9	6	23	12	55	289	164	960	1124	2.630
160	315LA	MMG-G	2	1700	200	51	650	660	620	9	6	23	12	55	289	164	1030	1194	2.758

4-pole

LS 65-50-241



LS 65-50-241 dimensional sketches



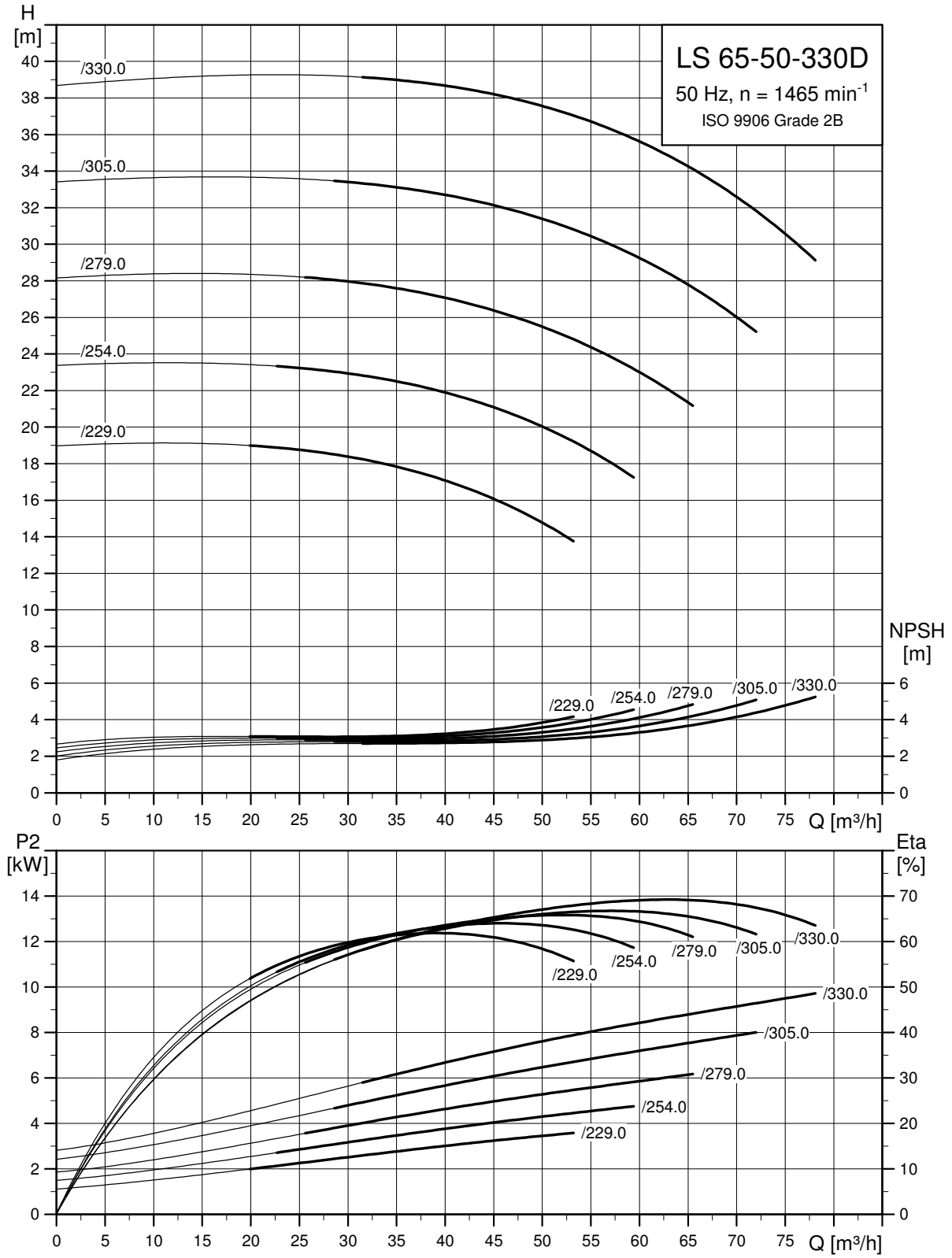
TM07 2172 3118

LS 65-50-241 dimensions

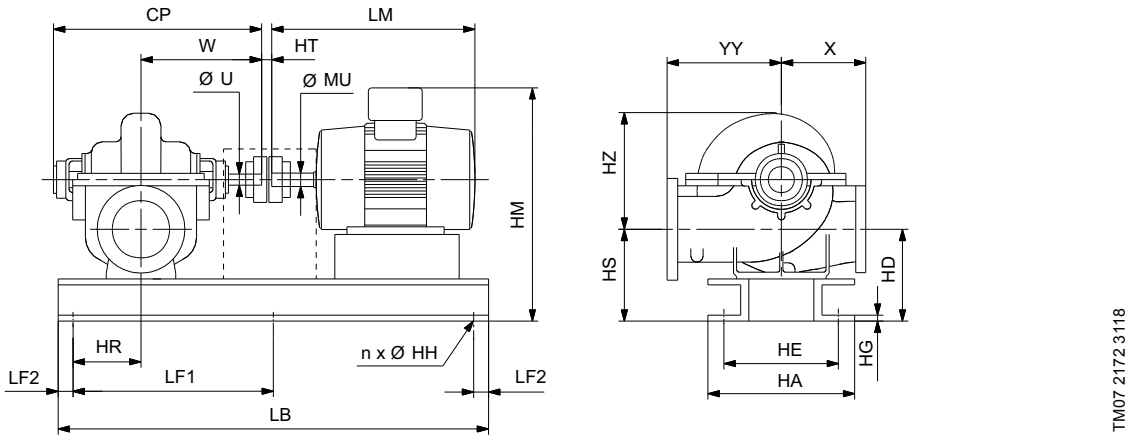
Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
				CP											
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
1.5	090LC	MG	4	510	545	305	24	216	216	209	209	270	371	424	24	3
2.2	100LB	MG	4	510	545	305	24	216	216	209	209	270	395	464	28	3
3	100LC	MG	4	510	545	305	24	216	216	209	209	270	395	464	28	3
4	112MC	MG	4	510	545	305	24	216	216	209	209	270	432	475	28	3
5.5	132SB	MG	4	510	545	305	24	216	216	209	209	270	459	500	38	3
1.5	090L	MMG-G	4	510	545	305	24	216	216	209	209	270	369.5	545	24	3
2.2	100LA	MMG-G	4	510	545	305	24	216	216	209	209	270	392	484	28	3
3	100LB	MMG-G	4	510	545	305	24	216	216	209	209	270	392	484	28	3
4	112M	MMG-G	4	510	545	305	24	216	216	209	209	270	412.5	491	28	3
5.5	132S	MMG-G	4	510	545	305	24	216	216	209	209	270	466	509	38	3

Motor				Base frame dimensions [mm]								Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
1.5	090LC	MG	4	880	200	20	-	330	286	8.5	4	18	-	20	16	73	17	135	0.41
2.2	100LB	MG	4	920	200	20	260	330	286	8.5	6	18	-	20	3	73	25	146	0.42
3	100LC	MG	4	920	200	20	260	330	286	8.5	6	18	-	20	3	73	29	150	0.42
4	112MC	MG	4	940	200	20	270	330	286	8.5	6	18	-	20	20	73	35	156	0.43
5.5	132SB	MG	4	1000	200	10	-	315	272	8.5	4	18	-	30	-	73	54	178	0.47
1.5	090L	MMG-G	4	880	200	20	-	330	286	8.5	4	18	-	20	18	73	29	102	0.704
2.2	100LA	MMG-G	4	920	200	20	260	330	286	8.5	6	18	-	20	-	73	40	113	0.653
3	100LB	MMG-G	4	920	200	20	260	330	286	8.5	6	18	-	20	-	73	42	115	0.653
4	112M	MMG-G	4	940	200	20	270	330	286	8.5	6	18	-	20	1	73	53	126	0.671
5.5	132S	MMG-G	4	1000	200	10	-	315	272	8.5	4	18	-	30	-	73	76	149	0.723

LS 65-50-330


LS 65-50-330D
50 Hz, n = 1465 min-1
ISO 9906 Grade 2B
H
[m]
/330.0
/305.0
/279.0
/254.0
/229.0
NPSH
[m]
Q [m³/h]
P2
[kW]
Eta
[%]
TM07 2691 4018

LS 65-50-330 dimensional sketches

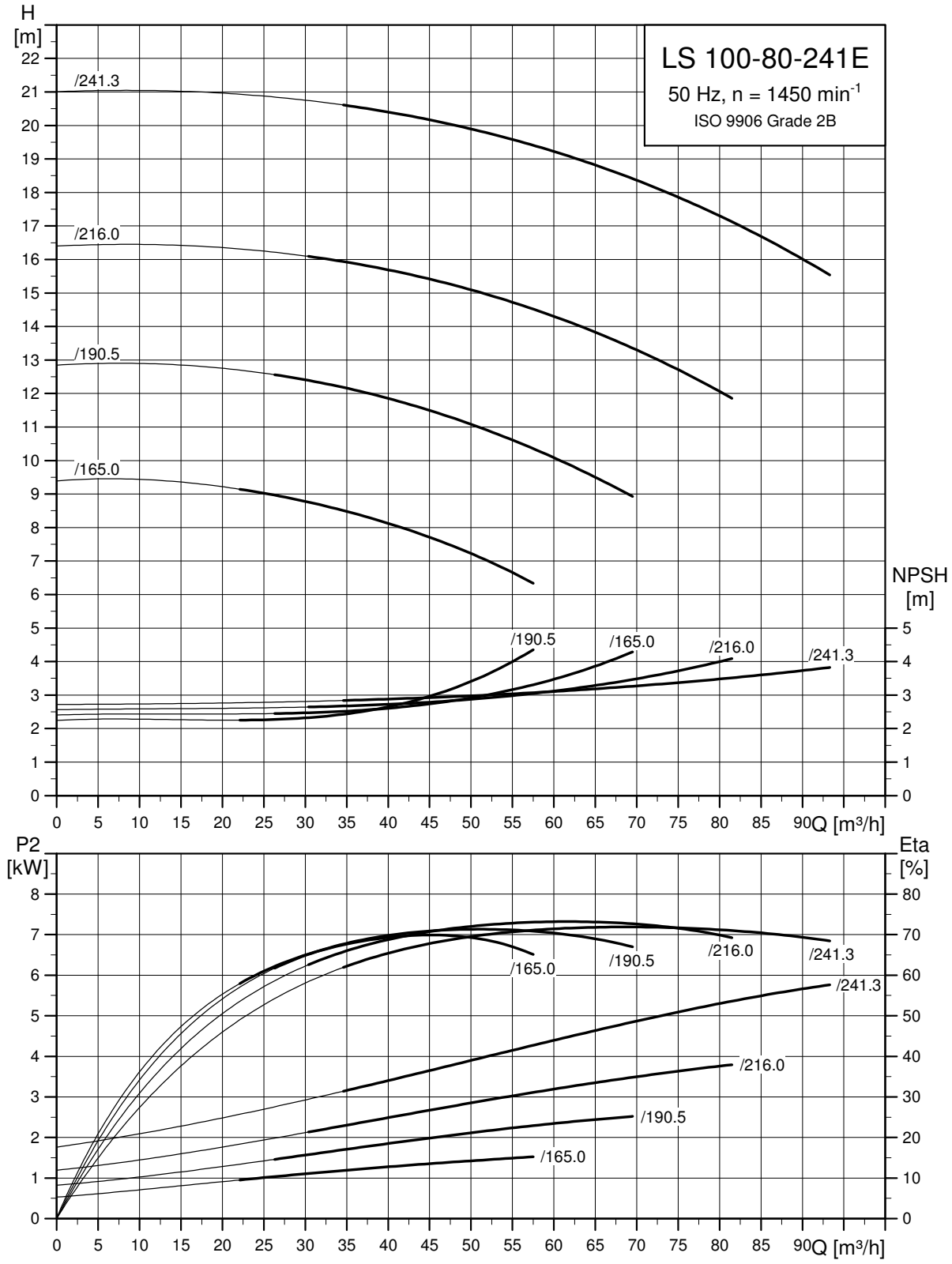


LS 65-50-330 dimensions

Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
4	112MC	MG	4	510	545	305	24	254	254	209	209	355	432	513	28	3
5.5	132SB	MG	4	510	545	305	24	254	254	209	209	355	459	538	38	3
7.5	132MB	MG	4	510	545	305	24	254	254	209	209	355	509	538	38	3
11	160MB	MG	4	510	545	305	24	254	254	209	209	355	581	572	42	3
15	160LB	MG	4	510	545	305	24	254	254	209	209	355	655	572	42	3
4	112M	MMG-G	4	510	545	305	24	254	254	209	209	355	412.5	529	28	3
5.5	132S	MMG-G	4	510	545	305	24	254	254	209	209	355	466	547	38	3
7.5	132M	MMG-G	4	510	545	305	24	254	254	209	209	355	504	547	38	3
11	160M	MMG-G	4	510	545	305	24	254	254	209	209	355	608	577	42	3
15	160L	MMG-G	4	510	545	305	24	254	254	209	209	355	652	577	42	3

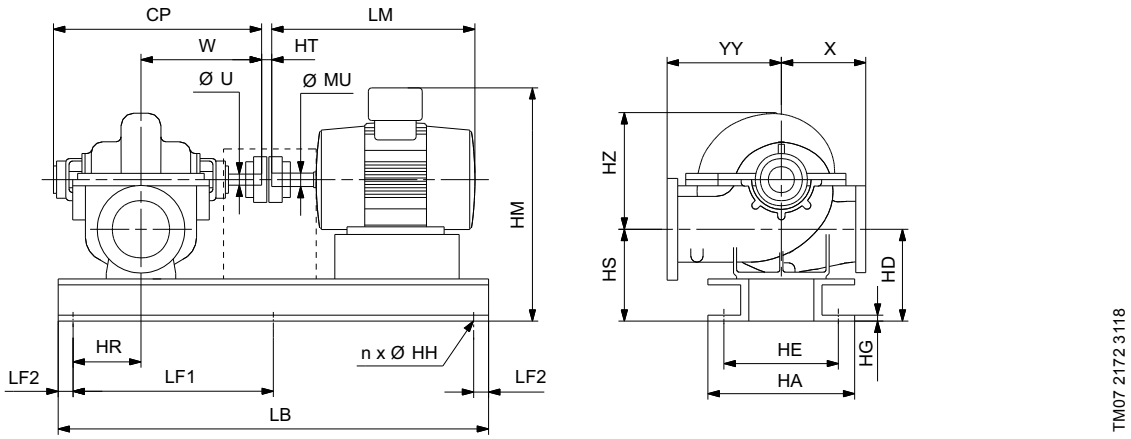
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
4	112MC	MG	4	940	200	20	270	330	286	8.5	6	18	-	20	-	95	35	178	0.64
5.5	132SB	MG	4	1010	200	20	305	330	286	8.5	6	18	-	20	-	95	54	202	0.64
7.5	132MB	MG	4	1010	200	20	305	330	286	8.5	6	18	-	20	-	95	68	216	0.64
11	160MB	MG	4	1140	200	20	370	390	346	8.5	6	18	-	20	-	95	95	254	0.59
15	160LB	MG	4	1140	200	20	370	390	346	8.5	6	18	-	20	59	95	115	274	0.61
4	112M	MMG-G	4	940	200	20	270	330	286	8.5	6	18	-	20	1	95	53	148	0.805
5.5	132S	MMG-G	4	1010	200	20	305	330	286	8.5	6	18	-	20	-	95	76	171	0.857
7.5	132M	MMG-G	4	1010	200	20	305	330	286	8.5	6	18	-	20	22	95	93	188	0.873
11	160M	MMG-G	4	1140	200	20	370	390	346	8.5	6	18	-	20	-	95	130	225	0.966
15	160L	MMG-G	4	1140	200	20	370	390	346	8.5	6	18	-	20	40	95	150	245	0.996

LS 100-80-241



TM07 2627 4018

LS 100-80-241 dimensional sketches

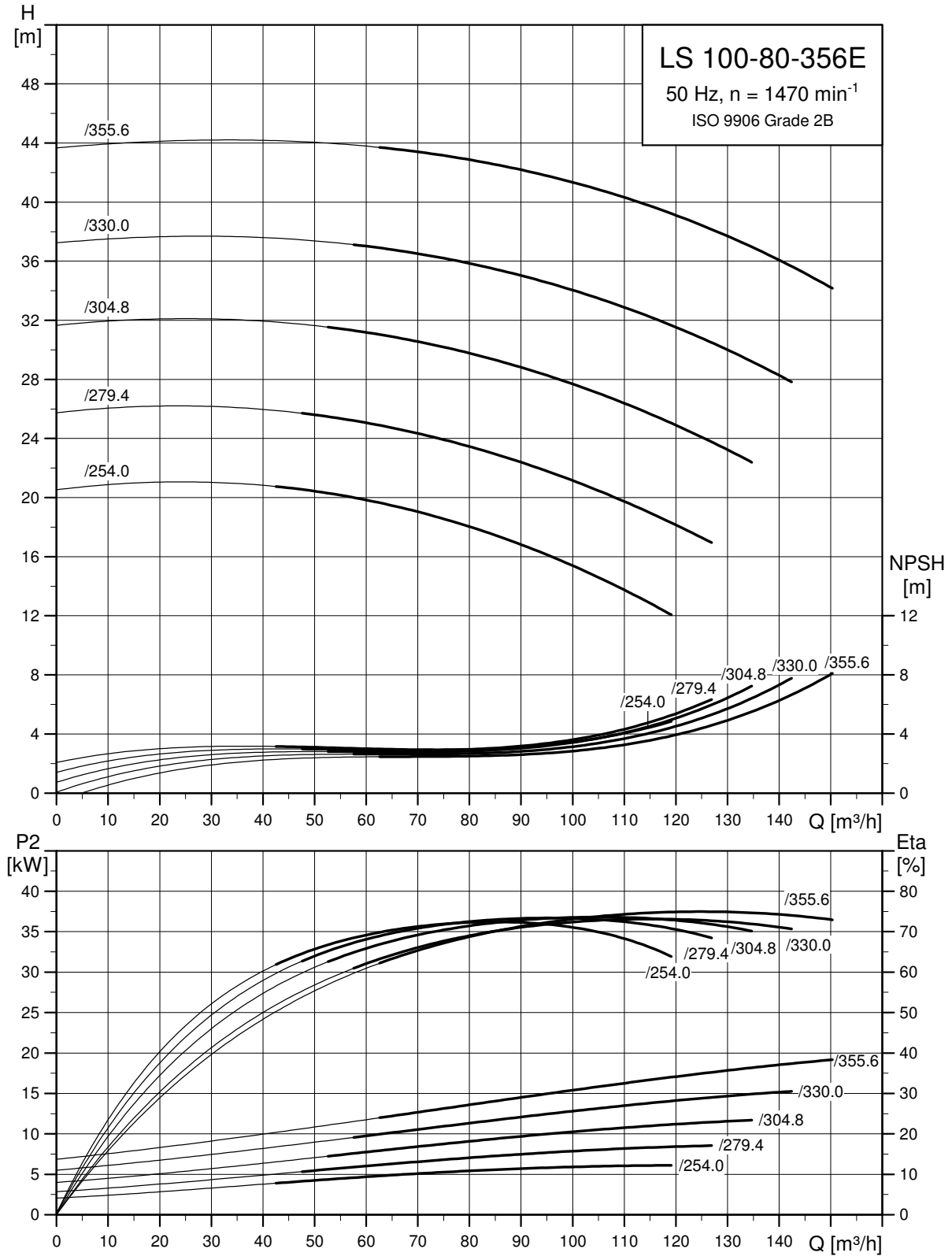


LS 100-80-241 dimensions

Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
2.2	100LB	MG	4	510	545	305	24	279	279	222	222	290	395	489	28	3
3	100LC	MG	4	510	545	305	24	279	279	222	222	290	395	489	28	3
4	112MC	MG	4	510	545	305	24	279	279	222	222	290	432	500	28	3
5.5	132SB	MG	4	510	545	305	24	279	279	222	222	290	459	525	38	3
7.5	132MB	MG	4	510	545	305	24	279	279	222	222	290	509	525	38	3
2.2	100LA	MMG-G	4	510	545	305	24	279	279	222	222	290	392	509	28	3
3	100LB	MMG-G	4	510	545	305	24	279	279	222	222	290	392	509	28	3
4	112M	MMG-G	4	510	545	305	24	279	279	222	222	290	412.5	516	28	3
5.5	132S	MMG-G	4	510	545	305	24	279	279	222	222	290	466	534	38	3
7.5	132M	MMG-G	4	510	545	305	24	279	279	222	222	290	504	534	38	3

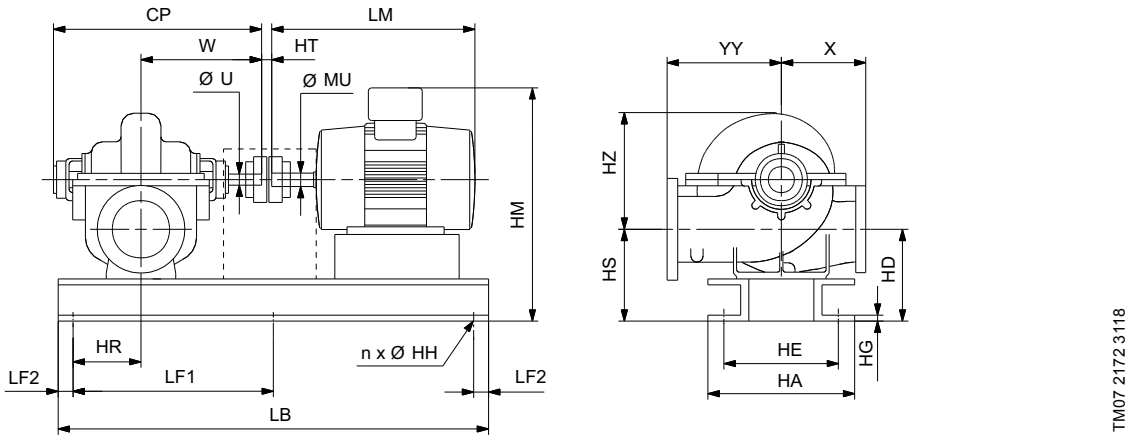
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
2.2	100LB	MG	4	920	200	20	260	315	271	8.5	6	18	-	20	3	80	25	152	0.53
3	100LC	MG	4	920	200	20	260	315	271	8.5	6	18	-	20	3	80	29	156	0.53
4	112MC	MG	4	930	200	20	265	315	271	8.5	6	18	-	20	30	80	35	161	0.55
5.5	132SB	MG	4	1010	200	20	305	315	271	8.5	6	18	-	20	-	80	54	185	0.58
7.5	132MB	MG	4	1010	200	20	305	315	271	8.5	6	18	-	20	27	80	68	199	0.60
2.2	100LA	MMG-G	4	920	200	20	260	315	271	8.5	6	18	-	20	-	80	40	120	0.791
3	100LB	MMG-G	4	920	200	20	260	315	271	8.5	6	18	-	20	-	80	42	122	0.791
4	112M	MMG-G	4	930	200	20	265	315	271	8.5	6	18	-	20	11	80	53	133	0.810
5.5	132S	MMG-G	4	1010	200	20	305	315	271	8.5	6	18	-	20	-	80	76	156	0.879
7.5	132M	MMG-G	4	1010	200	20	305	315	271	8.5	6	18	-	20	22	80	93	173	0.896

LS 100-80-356



TM07 2628 4018

LS 100-80-356 dimensional sketches

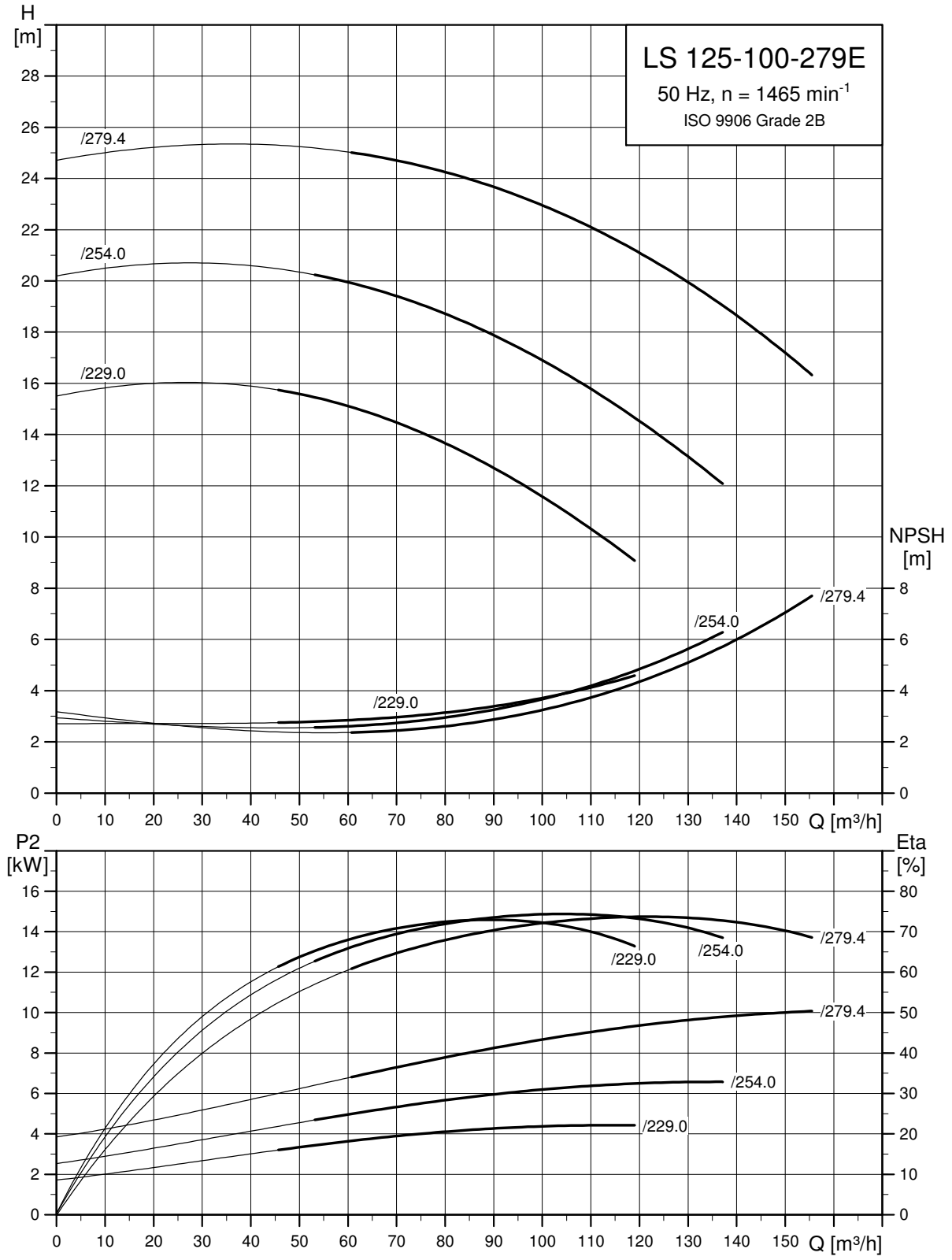


LS 100-80-356 dimensions

Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
7.5	132MB	MG	4	644	687	368	34	305	305	247	247	380	509	576	38	3
11	160MB	MG	4	644	687	368	34	305	305	247	247	380	581	611	42	3
15	160LB	MG	4	644	687	368	34	305	305	247	247	380	655	611	42	3
18.5	180M	Siemens	4	644	687	368	34	305	305	247	247	380	712	660	48	4
22	180L	Siemens	4	644	687	368	34	305	305	247	247	380	712	660	48	4
30	200L	Siemens	4	644	687	368	34	305	305	247	247	380	769	709	55	4
7.5	132M	MMG-G	4	644	687	368	34	305	305	247	247	380	504	585	38	3
11	160M	MMG-G	4	644	687	368	34	305	305	247	247	380	608	615	42	3
15	160L	MMG-G	4	644	687	368	34	305	305	247	247	380	652	615	42	3
18.5	180M	MMG-G	4	644	687	368	34	305	305	247	247	380	672	641	48	4
22	180L	MMG-G	4	644	687	368	34	305	305	247	247	380	710	641	48	4
30	200L	MMG-G	4	644	687	368	34	305	305	247	247	380	770	706	55	4

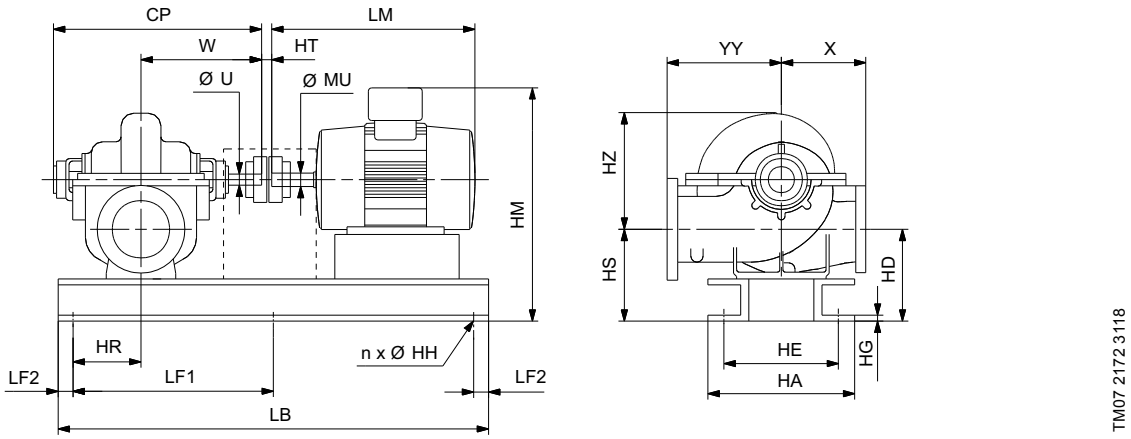
Motor				Base frame dimensions [mm]								Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
7.5	132MB	MG	4	1090	200	40	345	315	271	8.5	6	18	36	79	30	177	68	300	0.82
11	160MB	MG	4	1220	200	40	410	390	346	8.5	6	18	36	79	-	177	95	341	0.88
15	160LB	MG	4	1220	200	40	410	390	346	8.5	6	18	36	79	46	177	115	361	0.91
18.5	180M	Siemens	4	1250	200	41	-	400	360	8.5	4	23	36	79	35	177	126	374	0.96
22	180L	Siemens	4	1250	200	41	-	400	360	8.5	4	23	36	79	65	177	146	394	0.98
30	200L	Siemens	4	1300	200	40	450	420	372	9	6	18	36	79	63	177	200	449	1.06
7.5	132M	MMG-G	4	1090	200	40	345	315	271	8.5	6	18	36	79	25	177	93	270	1.157
11	160M	MMG-G	4	1220	200	40	410	390	346	8.5	6	18	36	79	-	177	130	307	1.250
15	160L	MMG-G	4	1220	200	40	410	390	346	8.5	6	18	36	79	43	177	150	327	1.288
18.5	180M	MMG-G	4	1250	200	41	-	400	360	8.5	4	23	36	79	34	177	195	372	1.325
22	180L	MMG-G	4	1250	200	41	-	400	360	8.5	4	23	36	79	72	177	205	382	1.359
30	200L	MMG-G	4	1300	200	40	450	420	372	9	6	18	36	79	82	177	285	462	1.507

LS 125-100-279



TM07 2630 4018

LS 125-100-279 dimensional sketches

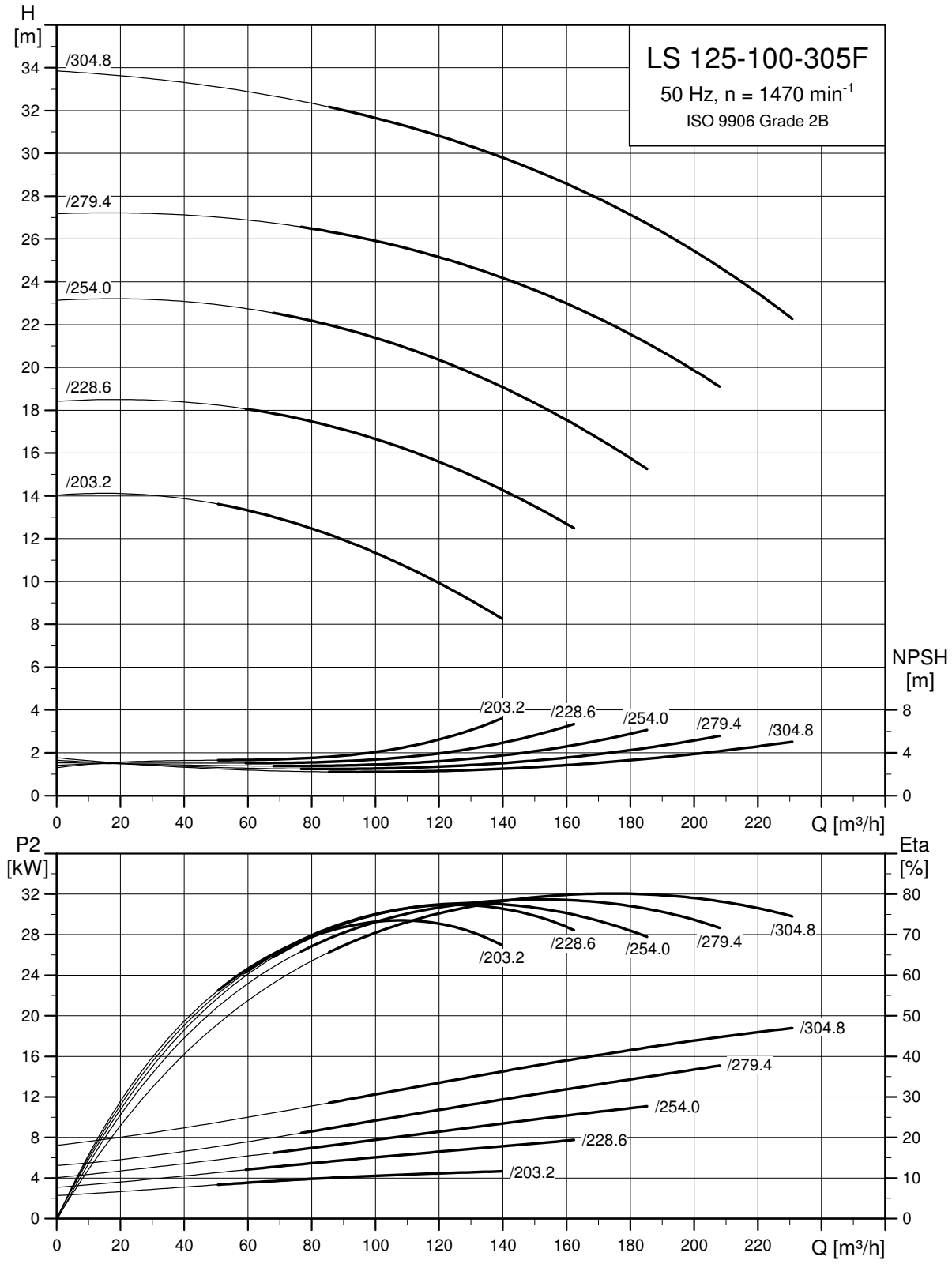


LS 125-100-279 dimensions

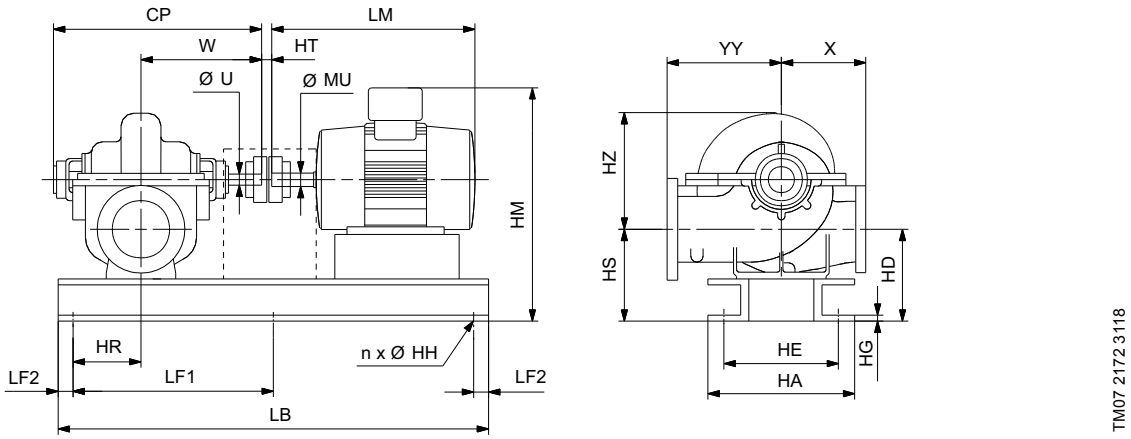
Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
				CP											
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
2.2	100LB	MG	4	631	674	368	34	305	305	244	244	370	395	543	28	8
3	100LC	MG	4	631	674	368	34	305	305	244	244	370	395	543	28	8
4	112MC	MG	4	631	674	368	34	305	305	244	244	370	432	574	28	8
5.5	132SB	MG	4	631	674	368	34	305	305	244	244	370	459	579	38	3
7.5	132MB	MG	4	631	674	368	34	305	305	244	244	370	509	579	38	3
11	160MB	MG	4	631	674	368	34	305	305	244	244	370	581	634	42	3
15	160LB	MG	4	631	674	368	34	305	305	244	244	370	655	634	42	3
2.2	100LA	MMG-G	4	631	674	368	34	305	305	244	244	370	392	563	28	8
3	100LB	MMG-G	4	631	674	368	34	305	305	244	244	370	392	563	28	8
4	112M	MMG-G	4	631	674	368	34	305	305	244	244	370	412.5	570	28	8
5.5	132S	MMG-G	4	631	674	368	34	305	305	244	244	370	466	588	38	3
7.5	132M	MMG-G	4	631	674	368	34	305	305	244	244	370	504	588	38	3
11	160M	MMG-G	4	631	674	368	34	305	305	244	244	370	608	618	42	3
15	160L	MMG-G	4	631	674	368	34	305	305	244	244	370	652	618	42	3

Motor				Base frame dimensions [mm]								Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
2.2	100LB	MG	4	1020	200	50	310	315	271	8.5	6	18	13	56	39	164	25	245	0.76
3	100LC	MG	4	1020	200	50	310	315	271	8.5	6	18	13	56	39	164	29	249	0.76
4	112MC	MG	4	1020	200	50	310	315	267	9	6	18	13	56	23	164	35	255	0.77
5.5	132SB	MG	4	1100	200	50	350	315	271	8.5	6	18	13	56	39	164	54	275	0.78
7.5	132MB	MG	4	1100	200	50	350	315	271	8.5	6	18	13	56	39	164	68	289	0.81
11	160MB	MG	4	1250	200	50	425	334	286	9	6	18	13	56	-	164	95	323	0.90
15	160LB	MG	4	1250	200	50	425	334	286	9	6	18	13	56	45	164	115	343	0.92
2.2	100LA	MMG-G	4	1020	200	50	310	315	271	8.5	6	18	13	56	-	164	40	204	1.038
3	100LB	MMG-G	4	1020	200	50	310	315	271	8.5	6	18	13	56	-	164	42	206	1.038
4	112M	MMG-G	4	1020	200	50	310	315	267	9	6	18	13	56	19	164	53	217	1.054
5.5	132S	MMG-G	4	1100	200	50	350	315	271	8.5	6	18	13	56	-	164	76	240	1.108
7.5	132M	MMG-G	4	1100	200	50	350	315	271	8.5	6	18	13	56	25	164	93	257	1.130
11	160M	MMG-G	4	1250	200	50	425	334	286	9	6	18	13	56	-	164	130	294	1.244
15	160L	MMG-G	4	1250	200	50	425	334	286	9	6	18	13	56	23	164	150	314	1.264

LS 125-100-305



LS 125-100-305 dimensional sketches

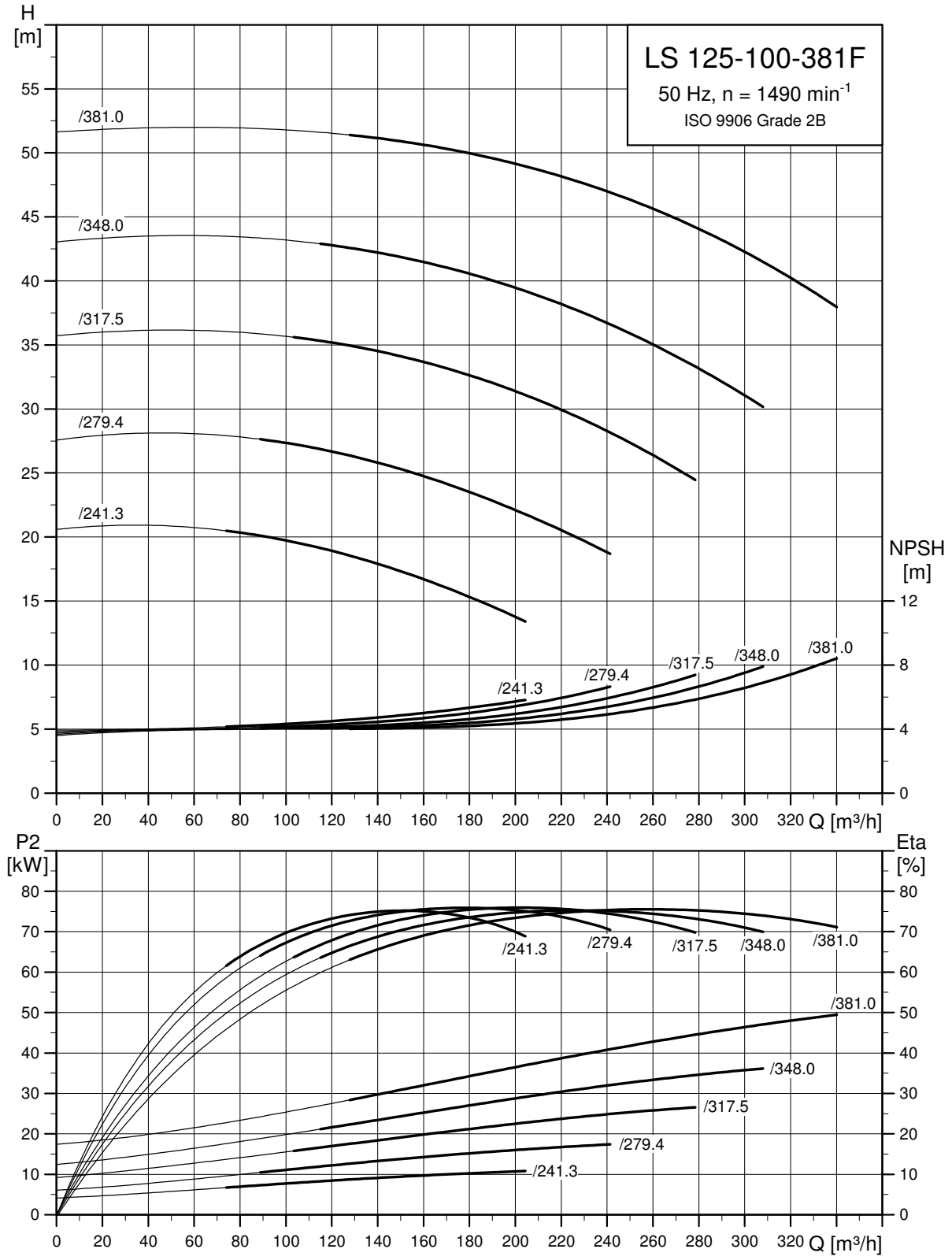


LS 125-100-305 dimensions

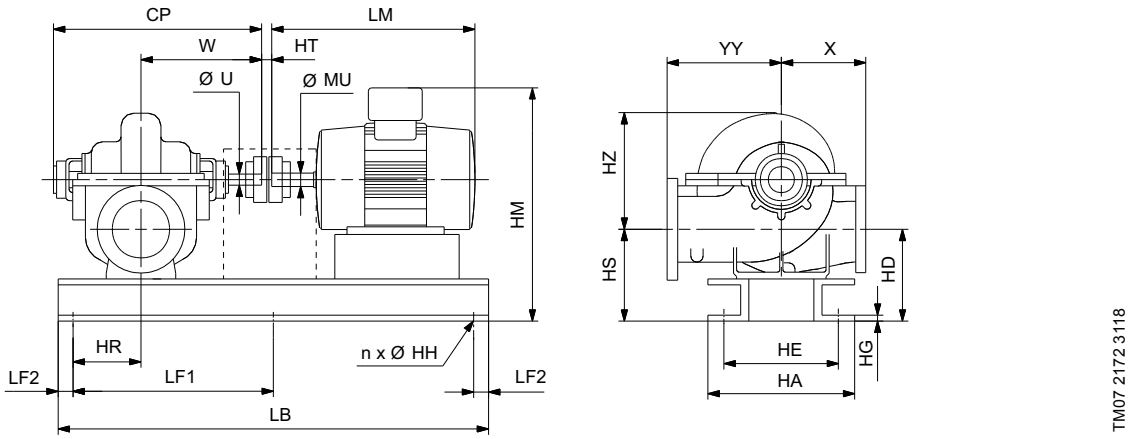
Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
				CP											
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
4	112MC	MG	4	631	674	368	34	305	305	244	244	370	432	574	28	8
5.5	132SB	MG	4	631	674	368	34	305	305	244	244	370	459	579	38	3
7.5	132MB	MG	4	631	674	368	34	305	305	244	244	370	509	579	38	3
11	160MB	MG	4	631	674	368	34	305	305	244	244	370	581	634	42	3
15	160LB	MG	4	631	674	368	34	305	305	244	244	370	655	634	42	3
18.5	180M	Siemens	4	631	674	368	34	305	305	244	244	370	712	663	48	4
22	180L	Siemens	4	631	674	368	34	305	305	244	244	370	712	663	48	4
4	112M	MMG-G	4	631	674	368	34	305	305	244	244	370	412.5	570	28	8
5.5	132S	MMG-G	4	631	674	368	34	305	305	244	244	370	466	588	38	3
7.5	132M	MMG-G	4	631	674	368	34	305	305	244	244	370	504	588	38	3
11	160M	MMG-G	4	631	674	368	34	305	305	244	244	370	608	618	42	3
15	160L	MMG-G	4	631	674	368	34	305	305	244	244	370	652	618	42	3
18.5	180M	MMG-G	4	631	674	368	34	305	305	244	244	370	672	644	48	4
22	180L	MMG-G	4	631	674	368	34	305	305	244	244	370	710	644	48	4

Motor				Base frame dimensions [mm]								Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
4	112MC	MG	4	1020	200	50	310	315	267	9	6	18	13	56	23	164	35	255	0.77
5.5	132SB	MG	4	1100	200	50	350	315	271	8.5	6	18	13	56	39	164	54	275	0.78
7.5	132MB	MG	4	1100	200	50	350	315	271	8.5	6	18	13	56	39	164	68	289	0.81
11	160MB	MG	4	1250	200	50	425	334	286	9	6	18	13	56	-	164	95	323	0.90
15	160LB	MG	4	1250	200	50	425	334	286	9	6	18	13	56	45	164	115	343	0.92
18.5	180M	Siemens	4	1280	200	50	440	390	346	8.5	6	18	13	56	28	164	126	363	0.97
22	180L	Siemens	4	1280	200	50	440	390	346	8.5	6	18	13	56	58	164	146	383	0.99
4	112M	MMG-G	4	1020	200	50	310	315	267	9	6	18	13	56	19	164	53	217	1.054
5.5	132S	MMG-G	4	1100	200	50	350	315	271	8.5	6	18	13	56	-	164	76	240	1.108
7.5	132M	MMG-G	4	1100	200	50	350	315	271	8.5	6	18	13	56	25	164	93	257	1.130
11	160M	MMG-G	4	1250	200	50	425	334	286	9	6	18	13	56	-	164	130	294	1.244
15	160L	MMG-G	4	1250	200	50	425	334	286	9	6	18	13	56	23	164	150	314	1.264
18.5	180M	MMG-G	4	1280	200	50	440	390	346	8.5	6	18	13	56	14	164	195	359	1.317
22	180L	MMG-G	4	1280	200	50	440	390	346	8.5	6	18	13	56	52	164	205	369	1.351

LS 125-100-381



LS 125-100-381 dimensional sketches

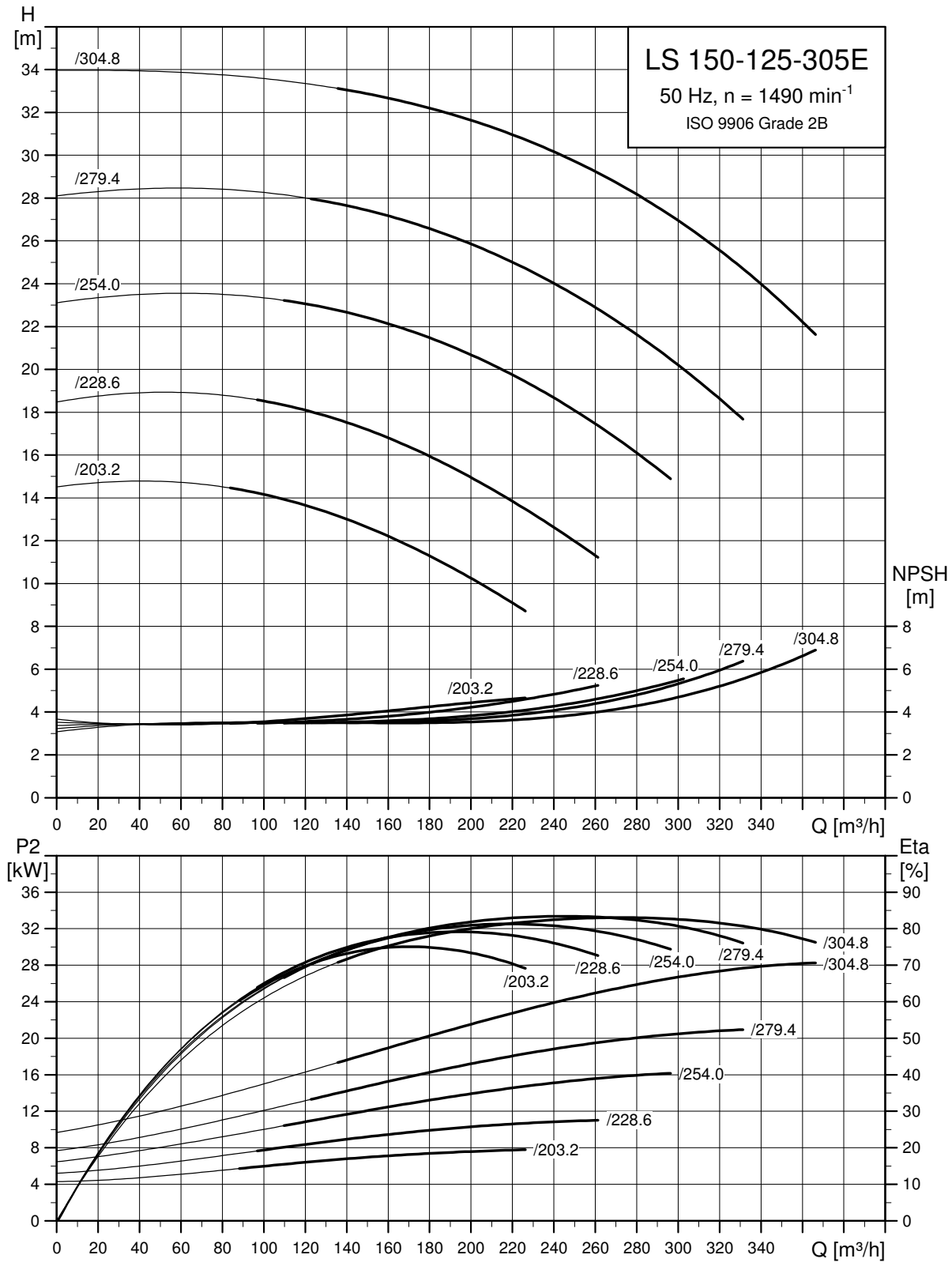


LS 125-100-381 dimensions

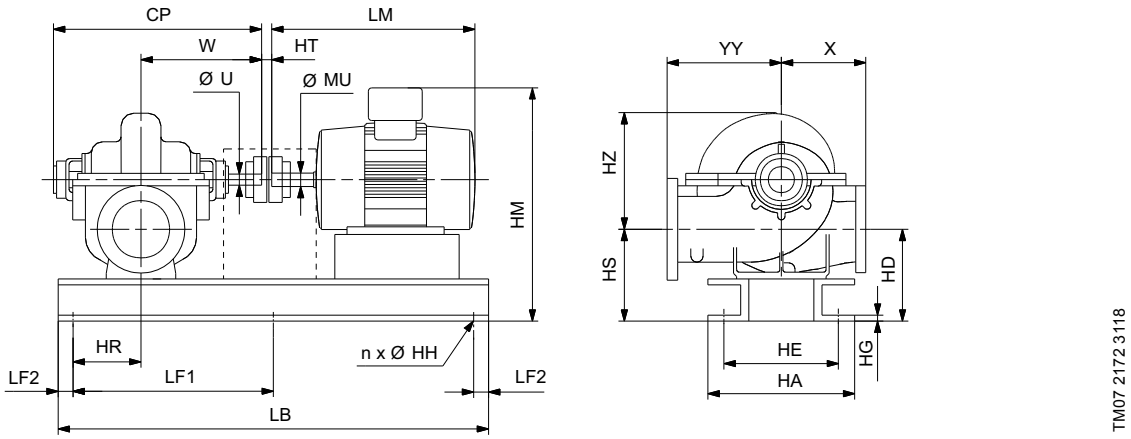
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
11	160MB	MG	4	631	674	368	34	357	357	279	279	470	581	707	42	3
15	160LB	MG	4	631	674	368	34	357	357	279	279	470	655	707	42	3
18.5	180M	Siemens	4	631	674	368	34	357	357	279	279	470	712	736	48	4
22	180L	Siemens	4	631	674	368	34	357	357	279	279	470	712	736	48	4
30	200L	Siemens	4	631	674	368	34	357	357	279	279	470	769	765	55	13
37	225S	Siemens	4	631	674	368	34	357	357	299	299	470	789	808	60	4
45	225M	Siemens	4	631	674	368	34	357	357	299	299	470	849	808	60	4
55	250M	Siemens	4	631	674	368	34	357	357	279	279	470	957	860	65	4
75	280S	Siemens	4	631	674	368	34	357	357	279	279	470	960	883	75	4
11	160M	MMG-G	4	631	674	368	34	357	357	279	279	470	608	691	42	3
15	160L	MMG-G	4	631	674	368	34	357	357	279	279	470	652	691	42	3
18.5	180M	MMG-G	4	631	674	368	34	357	357	279	279	470	672	717	48	4
22	180L	MMG-G	4	631	674	368	34	357	357	279	279	470	710	717	48	4
30	200L	MMG-G	4	631	674	368	34	357	357	279	279	470	770	782	55	13
37	225SC	MMG-G	4	631	674	368	34	357	357	299	299	470	816	828	60	4
45	225MC	MMG-G	4	631	674	368	34	357	357	299	299	470	841	828	60	4
55	250MC	MMG-G	4	631	674	368	34	357	357	299	299	470	921	870	65	4
75	280SB	MMG-G	4	631	674	368	34	357	357	299	299	470	1037.5	903	75	4

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
11	160MB	MG	4	1250	200	80	425	390	342	9	6	18	-	26	-	255	95	427	1.17
15	160LB	MG	4	1250	200	80	425	390	342	9	6	18	-	26	56	255	115	447	1.22
18.5	180M	Siemens	4	1300	200	80	-	390	350	8.5	4	18	-	26	38	255	126	461	1.21
22	180L	Siemens	4	1300	200	80	-	390	350	8.5	4	18	-	26	68	255	146	481	1.24
30	200L	Siemens	4	1350	200	80	475	435	392	8.5	6	18	-	26	80	255	200	540	1.31
37	225S	Siemens	4	1420	200	80	-	495	452	9	4	23	-	26	47	255	290	654	1.41
45	225M	Siemens	4	1420	200	80	-	495	452	9	4	23	-	26	107	255	330	694	1.46
55	250M	Siemens	4	1500	200	80	-	545	504	8.5	4	23	-	26	66	255	460	827	1.57
75	280S	Siemens	4	1600	200	80	600	605	561	8.5	6	18	-	26	49	255	575	956	1.60
11	160M	MMG-G	4	1250	200	80	425	390	342	9	6	18	-	26	9	255	130	385	1.570
15	160L	MMG-G	4	1250	200	80	425	390	342	9	6	18	-	26	53	255	150	405	1.619
18.5	180M	MMG-G	4	1300	200	80	-	390	350	8.5	4	18	-	26	24	255	195	450	1.643
22	180L	MMG-G	4	1300	200	80	-	390	350	8.5	4	18	-	26	62	255	205	460	1.685
30	200L	MMG-G	4	1350	200	80	475	435	392	8.5	6	18	-	26	81	255	285	540	1.815
37	225SC	MMG-G	4	1420	200	80	-	495	452	9	4	23	-	26	48	255	350	605	1.933
45	225MC	MMG-G	4	1420	200	80	-	495	452	9	4	23	-	26	73	255	360	615	1.963
55	250MC	MMG-G	4	1500	200	80	-	545	504	8.5	4	23	-	26	73	255	480	735	2.131
75	280SB	MMG-G	4	1600	200	80	600	605	557	9	6	18	-	26	89	255	621	876	2.337

LS 150-125-305



LS 150-125-305 dimensional sketches

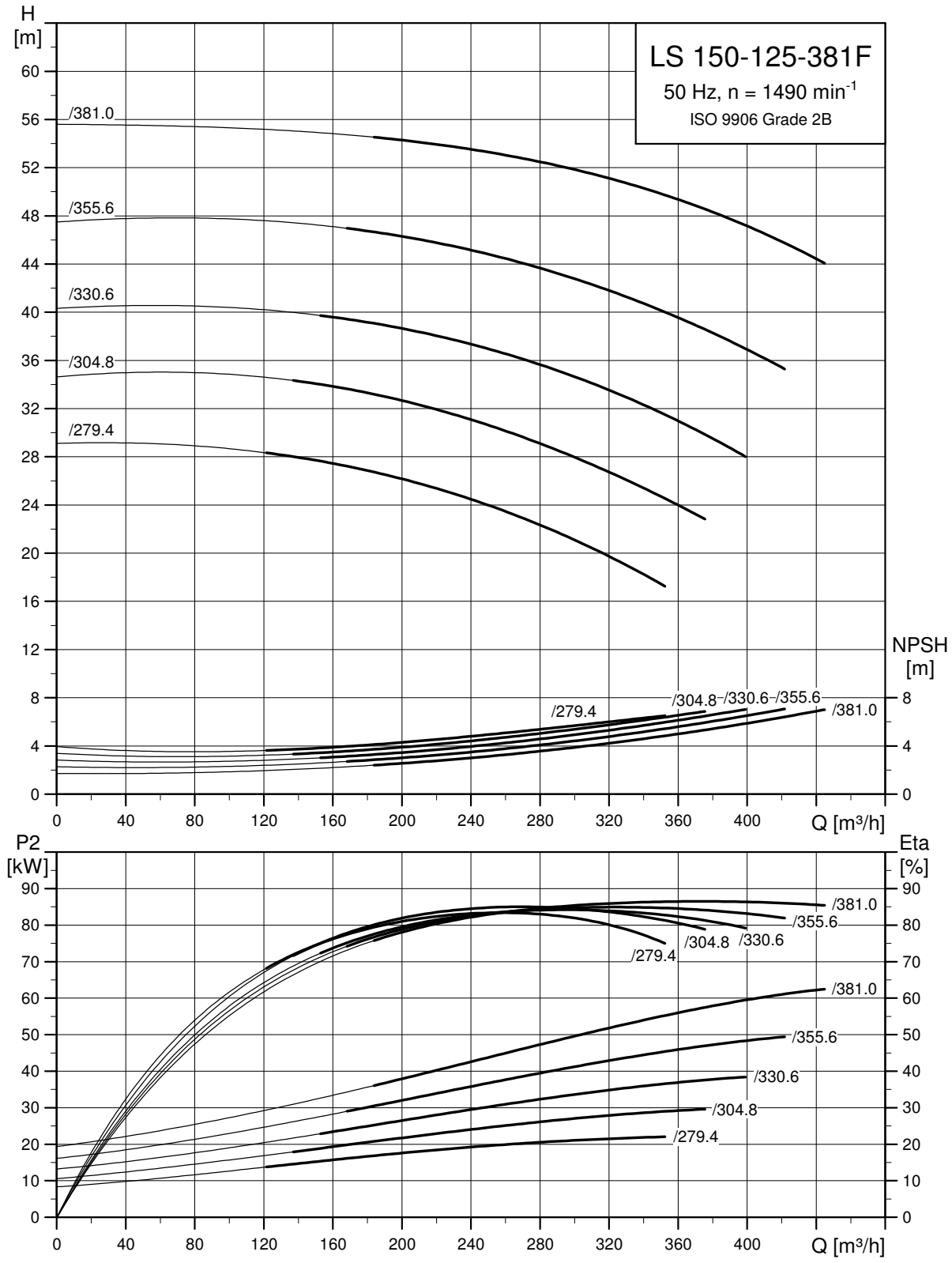


LS 150-125-305 dimensions

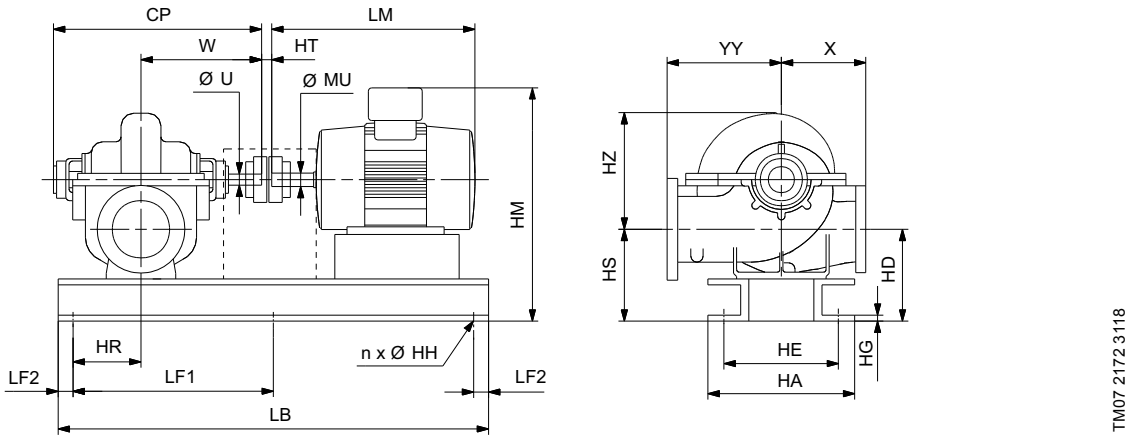
Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
5.5	132SB	MG	4	775	775	419	34	330	330	285	285	475	459	770	38	5
7.5	132MB	MG	4	775	775	419	34	330	330	285	285	475	509	770	38	5
11	160MB	MG	4	775	775	419	34	330	330	285	285	475	581	725	42	12
15	160LB	MG	4	775	775	419	34	330	330	285	285	475	655	725	42	12
18.5	180M	Siemens	4	775	775	419	34	330	330	285	285	475	712	774	48	21
22	180L	Siemens	4	775	775	419	34	330	330	285	285	475	712	774	48	21
30	200L	Siemens	4	775	775	419	34	330	330	285	285	475	769	803	55	21
37	225S	Siemens	4	775	775	419	34	330	330	305	305	475	789	826	60	30
5.5	132S	MMG-G	4	775	775	419	34	330	330	285	285	475	466	699	38	5
7.5	132M	MMG-G	4	775	775	419	34	330	330	285	285	475	504	699	38	5
11	160M	MMG-G	4	775	775	419	34	330	330	285	285	475	608	729	42	12
15	160L	MMG-G	4	775	775	419	34	330	330	285	285	475	652	729	42	12
18.5	180M	MMG-G	4	775	775	419	34	330	330	285	285	475	672	755	48	21
22	180L	MMG-G	4	775	775	419	34	330	330	285	285	475	710	755	48	21
30	200L	MMG-G	4	775	775	419	34	330	330	285	285	475	770	820	55	21
37	225SC	MMG-G	4	775	775	419	34	330	330	305	305	475	816	866	60	30

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
5.5	132SB	MG	4	1160	200	60	380	330	268	11	6	23	96	96	40	268	54	386	1.17
7.5	132MB	MG	4	1160	200	60	380	330	268	11	6	23	96	96	40	268	68	400	1.21
11	160MB	MG	4	1300	200	60	450	390	346	8.5	6	18	96	96	-	268	95	442	1.18
15	160LB	MG	4	1300	200	60	450	390	346	8.5	6	18	96	96	56	268	115	462	1.22
18.5	180M	Siemens	4	1340	200	60	470	400	360	8.5	6	18	96	96	28	268	126	477	1.25
22	180L	Siemens	4	1340	200	60	470	400	360	8.5	6	18	96	96	58	268	146	497	1.27
30	200L	Siemens	4	1380	200	60	490	425	381	8.5	6	18	96	96	66	268	200	548	1.33
37	225S	Siemens	4	1450	200	60	525	465	421	8.5	6	18	96	96	47	268	290	656	1.43
5.5	132S	MMG-G	4	1160	200	60	380	330	268	11	6	23	96	96	-	268	76	344	1.498
7.5	132M	MMG-G	4	1160	200	60	380	330	268	11	6	23	96	96	28	268	93	361	1.528
11	160M	MMG-G	4	1300	200	60	450	390	346	8.5	6	18	96	96	-	268	130	398	1.647
15	160L	MMG-G	4	1300	200	60	450	390	346	8.5	6	18	96	96	43	268	150	418	1.694
18.5	180M	MMG-G	4	1340	200	60	470	400	360	8.5	6	18	96	96	32	268	195	463	1.724
22	180L	MMG-G	4	1340	200	60	470	400	360	8.5	6	18	96	96	70	268	205	473	1.765
30	200L	MMG-G	4	1380	200	60	490	425	381	8.5	6	18	96	96	90	268	285	553	1.928
37	225SC	MMG-G	4	1450	200	60	525	465	421	8.5	6	18	96	96	75	268	350	618	2.068

LS 150-125-381



LS 150-125-381 dimensional sketches

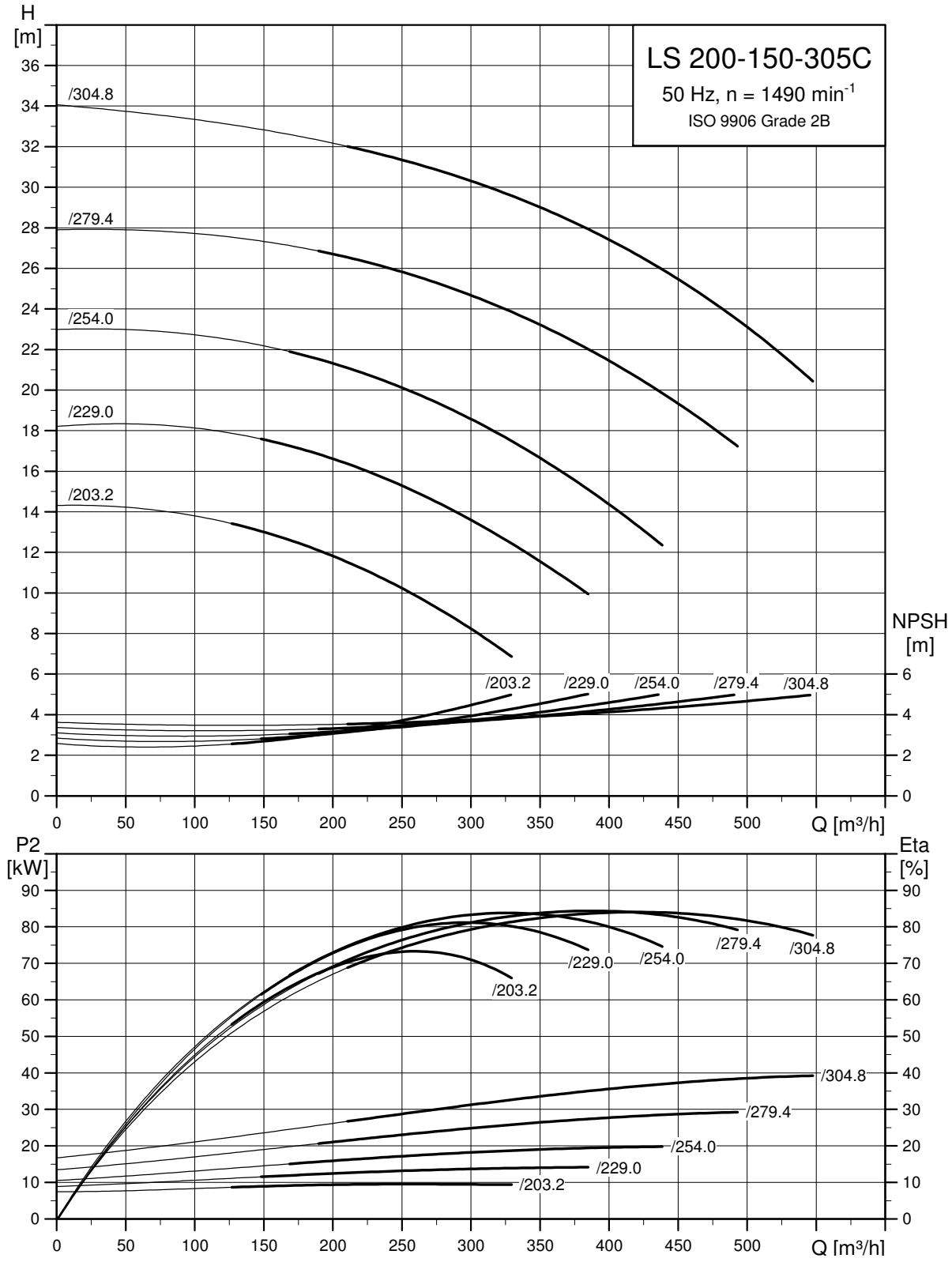


LS 150-125-381 dimensions

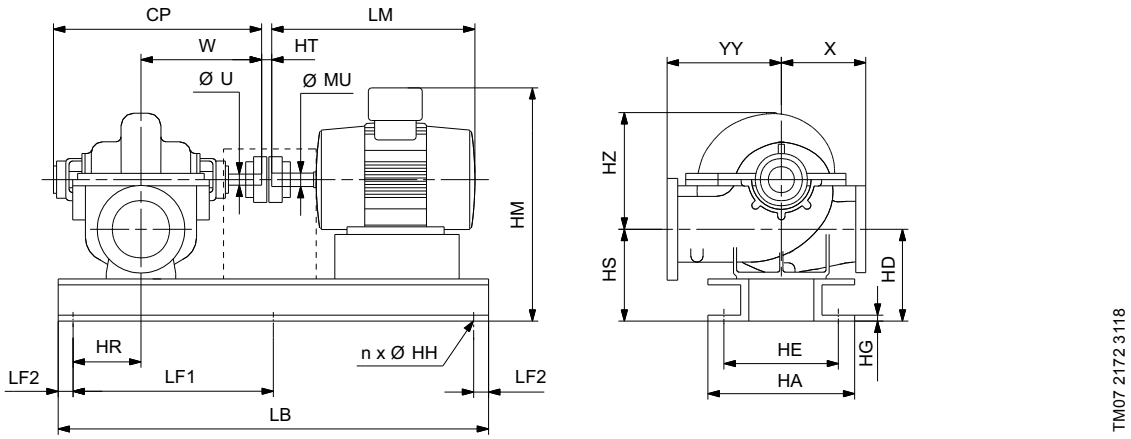
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
15	160LB	MG	4	801	801	432	34	356	381	285	285	550	655	766	42	12
18.5	180M	Siemens	4	801	801	432	34	356	381	285	285	550	712	816	48	21
22	180L	Siemens	4	801	801	432	34	356	381	285	285	550	712	816	48	21
30	200L	Siemens	4	801	801	432	34	356	381	305	305	550	769	865	55	21
37	225S	Siemens	4	801	801	432	34	356	381	305	305	550	789	888	60	30
45	225M	Siemens	4	801	801	432	34	356	381	305	305	550	849	888	60	30
55	250M	Siemens	4	801	801	432	34	356	381	305	305	550	957	960	65	30
75	280S	Siemens	4	801	801	432	34	356	381	305	305	550	960	983	75	40
15	160L	MMG-G	4	801	801	432	34	356	381	285	285	550	652	771	42	12
18.5	180M	MMG-G	4	801	801	432	34	356	381	285	285	550	672	797	48	21
22	180L	MMG-G	4	801	801	432	34	356	381	285	285	550	710	797	48	21
30	200L	MMG-G	4	801	801	432	34	356	381	305	305	550	770	882	55	21
37	225SC	MMG-G	4	801	801	432	34	356	381	305	305	550	816	908	60	30
45	225MC	MMG-G	4	801	801	432	34	356	381	305	305	550	841	908	60	30
55	250MC	MMG-G	4	801	801	432	34	356	381	305	305	550	921	950	65	30
75	280SB	MMG-G	4	801	801	432	34	356	381	305	305	550	1037.5	983	75	40

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
15	160LB	MG	4	1300	200	60	450	390	346	8.5	6	18	109	109	68	318	115	515	1.47
18.5	180M	Siemens	4	1350	200	60	475	390	346	8.5	6	18	109	109	31	318	126	528	1.48
22	180L	Siemens	4	1350	200	60	475	390	346	8.5	6	18	109	109	61	318	146	548	1.51
30	200L	Siemens	4	1390	200	60	-	445	400	9	4	23	109	109	69	318	200	616	1.58
37	225S	Siemens	4	1460	200	60	-	495	452	9	4	23	109	109	50	318	290	718	1.68
45	225M	Siemens	4	1460	200	60	-	495	452	9	4	23	109	109	110	318	330	758	1.74
55	250M	Siemens	4	1540	200	60	570	545	500	9	6	23	109	109	69	318	460	895	1.90
75	280S	Siemens	4	1650	200	60	625	610	566	9	6	23	109	109	42	318	575	1024	2.03
15	160L	MMG-G	4	1300	200	60	450	390	346	8.5	6	18	109	109	56	318	150	468	1.985
18.5	180M	MMG-G	4	1350	200	60	475	390	346	8.5	6	18	109	109	35	318	195	513	2.020
22	180L	MMG-G	4	1350	200	60	475	390	346	8.5	6	18	109	109	73	318	205	523	2.067
30	200L	MMG-G	4	1390	200	60	-	445	400	9	4	23	109	109	93	318	285	603	2.225
37	225SC	MMG-G	4	1460	200	60	-	495	452	9	4	23	109	109	78	318	350	668	2.344
45	225MC	MMG-G	4	1460	200	60	-	495	452	9	4	23	109	109	103	318	360	678	2.377
55	250MC	MMG-G	4	1540	200	60	570	545	500	9	6	23	109	109	103	318	480	798	2.564
75	280SB	MMG-G	4	1650	200	60	625	610	566	9	6	23	109	109	120	318	621	939	2.804

LS 200-150-305



LS 200-150-305 dimensional sketches

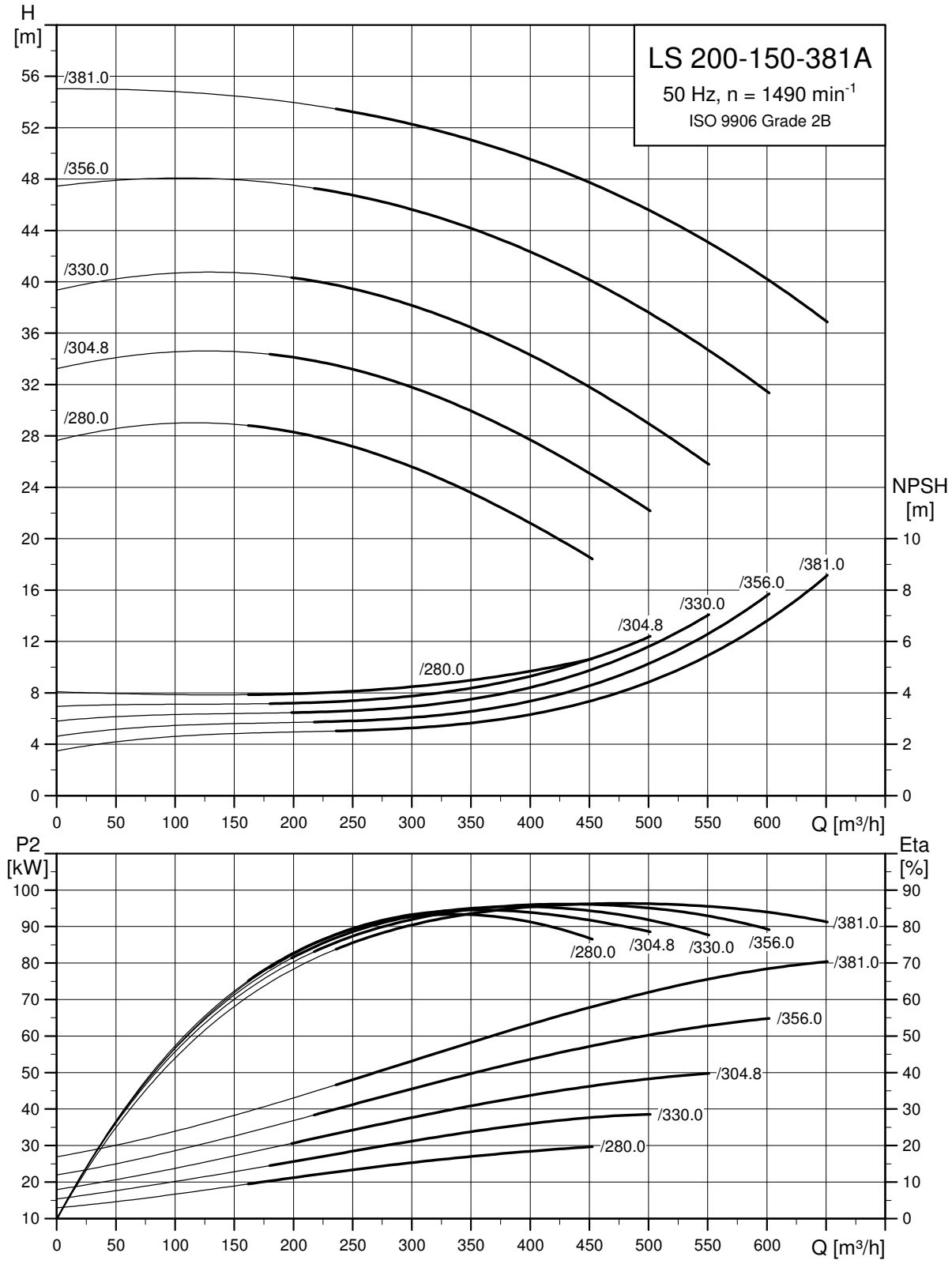


LS 200-150-305 dimensions

Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
11	160MB	MG	4	801	801	432	34	356	406	305	305	530	581	763	42	12
15	160LB	MG	4	801	801	432	34	356	406	305	305	530	655	763	42	12
18.5	180M	Siemens	4	801	801	432	34	356	406	305	305	530	712	832	48	21
22	180L	Siemens	4	801	801	432	34	356	406	305	305	530	712	832	48	21
30	200L	Siemens	4	801	801	432	34	356	406	305	305	530	769	841	55	21
37	225S	Siemens	4	801	801	432	34	356	406	305	305	530	789	884	60	30
45	225M	Siemens	4	801	801	432	34	356	406	305	305	530	849	884	60	30
11	160M	MMG-G	4	801	801	432	34	356	406	305	305	530	608	787	42	12
15	160L	MMG-G	4	801	801	432	34	356	406	305	305	530	652	787	42	12
18.5	180M	MMG-G	4	801	801	432	34	356	406	305	305	530	672	813	48	21
22	180L	MMG-G	4	801	801	432	34	356	406	305	305	530	710	813	48	21
30	200L	MMG-G	4	801	801	432	34	356	406	305	305	530	770	878	55	21
37	225SC	MMG-G	4	801	801	432	34	356	406	305	305	530	816	904	60	30
45	225MC	MMG-G	4	801	801	432	34	356	406	305	305	530	841	904	60	30

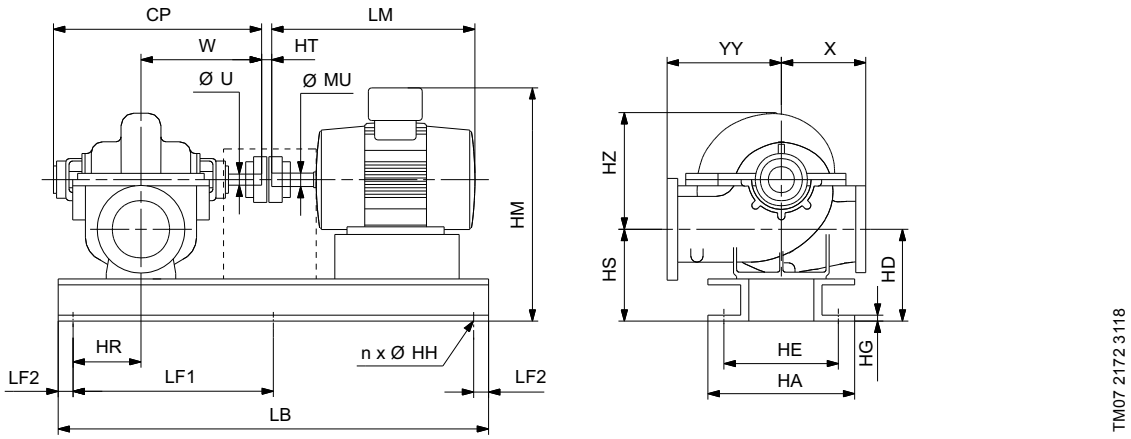
Motor				Base frame dimensions [mm]								Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
11	160MB	MG	4	1300	200	60	450	390	346	8.5	6	18	109	109	8	411	95	597	1.42
15	160LB	MG	4	1300	200	60	450	390	346	8.5	6	18	109	109	68	411	115	617	1.48
18.5	180M	Siemens	4	1350	200	60	475	395	347	9	6	18	109	109	31	411	126	631	1.52
22	180L	Siemens	4	1350	200	60	475	395	347	9	6	18	109	109	61	411	146	651	1.55
30	200L	Siemens	4	1400	200	60	500	425	381	8.5	6	18	109	109	59	411	200	697	1.58
37	225S	Siemens	4	1460	200	60	530	465	417	9	6	18	109	109	50	411	290	801	1.72
45	225M	Siemens	4	1460	200	60	530	465	417	9	6	18	109	109	110	411	330	841	1.78
11	160M	MMG-G	4	1300	200	60	450	390	346	8.5	6	18	109	109	12	411	130	541	1.977
15	160L	MMG-G	4	1300	200	60	450	390	346	8.5	6	18	109	109	56	411	150	561	2.033
18.5	180M	MMG-G	4	1350	200	60	475	395	347	9	6	18	109	109	35	411	195	606	2.069
22	180L	MMG-G	4	1350	200	60	475	395	347	9	6	18	109	109	73	411	205	616	2.117
30	200L	MMG-G	4	1400	200	60	500	425	381	8.5	6	18	109	109	83	411	285	696	2.272
37	225SC	MMG-G	4	1460	200	60	530	465	417	9	6	18	109	109	78	411	350	761	2.393
45	225MC	MMG-G	4	1460	200	60	530	465	417	9	6	18	109	109	103	411	360	771	2.426

LS 200-150-381



TM07 2639 4018

LS 200-150-381 dimensional sketches

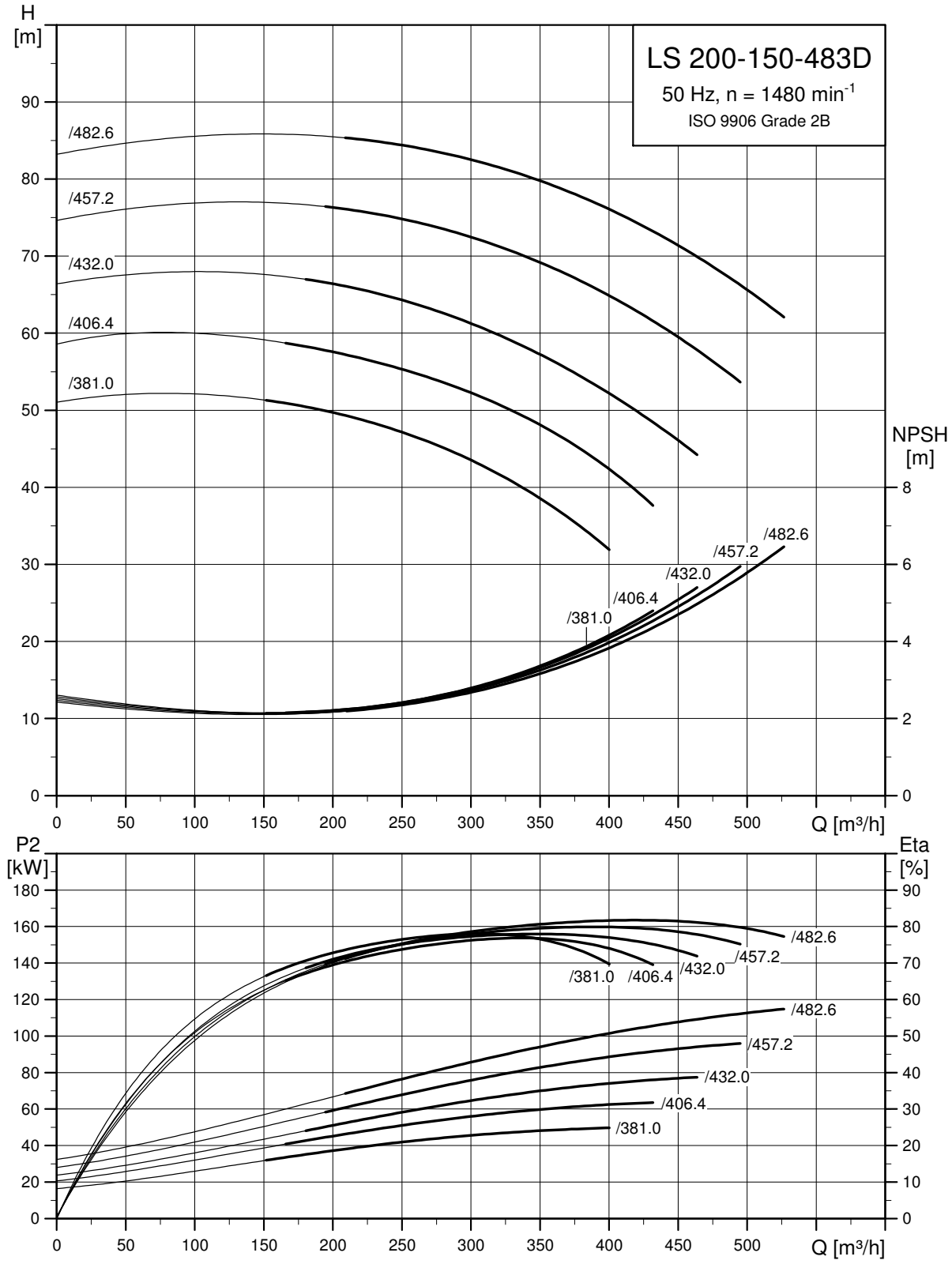


LS 200-150-381 dimensions

Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
18.5	180M	Siemens	4	929	929	508	44.45	381	406	324	324	605	712	870	48	4
22	180L	Siemens	4	929	929	508	44.45	381	406	324	324	605	712	870	48	4
30	200L	Siemens	4	929	929	508	44.45	381	406	324	324	605	769	919	55	4
37	225S	Siemens	4	929	929	508	44.45	381	406	324	324	605	789	922	60	7
45	225M	Siemens	4	929	929	508	44.45	381	406	324	324	605	849	922	60	7
55	250M	Siemens	4	929	929	508	44.45	381	406	324	324	605	957	1074	65	7
75	280S	Siemens	4	929	929	508	44.45	381	406	324	324	605	960	1037	75	17
90	280M	Siemens	4	929	929	508	44.45	381	406	324	324	605	1070	1037	75	17
110	315S	Siemens	4	929	929	508	44.45	381	406	324	324	605	1102	1179	80	17
18.5	180M	MMG-G	4	929	929	508	44.45	381	406	324	324	605	672	871	48	4
22	180L	MMG-G	4	929	929	508	44.45	381	406	324	324	605	710	871	48	4
30	200L	MMG-G	4	929	929	508	44.45	381	406	324	324	605	770	936	55	4
37	225SC	MMG-G	4	929	929	508	44.45	381	406	324	324	605	816	962	60	7
45	225MC	MMG-G	4	929	929	508	44.45	381	406	324	324	605	841	962	60	7
55	250MC	MMG-G	4	929	929	508	44.45	381	406	324	324	605	921	1004	65	7
75	280SB	MMG-G	4	929	929	508	44.45	381	406	324	324	605	1037.5	1037	75	17
90	280MB	MMG-G	4	929	929	508	44.45	381	406	324	324	605	1087.5	1037	75	17
110	315SB	MMG-G	4	929	929	508	44.45	381	406	324	324	605	1246	1132	80	17

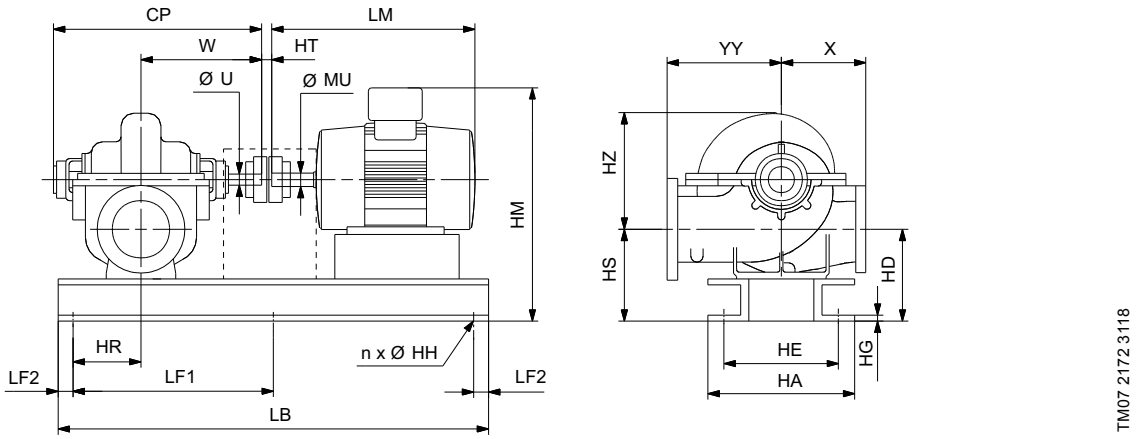
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
18.5	180M	Siemens	4	1500	200	130	550	390	346	8.5	6	18	91	91	10	455	126	687	1.79
22	180L	Siemens	4	1500	200	130	550	390	346	8.5	6	18	91	91	40	455	146	707	1.82
30	200L	Siemens	4	1530	200	130	565	425	377	9	6	18	91	91	58	455	200	764	1.88
37	225S	Siemens	4	1590	200	130	595	465	421	8.5	6	18	91	91	42	455	290	862	1.94
45	225M	Siemens	4	1590	200	130	595	465	421	8.5	6	18	91	91	102	455	330	902	2.00
55	250M	Siemens	4	1660	200	130	630	555	493	11	6	23	91	91	71	455	460	1043	2.34
75	280S	Siemens	4	1750	200	130	675	605	560	9	6	23	91	91	64	455	575	1176	2.36
90	280M	Siemens	4	1750	200	130	675	605	560	9	6	23	91	91	174	455	675	1276	2.48
110	315S	Siemens	4	1850	200	130	725	665	603	11	6	23	91	91	86	455	810	1412	2.81
18.5	180M	MMG-G	4	1500	200	130	550	390	346	8.5	6	18	91	91	14	455	195	650	2.441
22	180L	MMG-G	4	1500	200	130	550	390	346	8.5	6	18	91	91	52	455	205	660	2.493
30	200L	MMG-G	4	1530	200	130	565	425	377	9	6	18	91	91	82	455	285	740	2.591
37	225SC	MMG-G	4	1590	200	130	595	465	421	8.5	6	18	91	91	71	455	350	805	2.712
45	225MC	MMG-G	4	1590	200	130	595	465	421	8.5	6	18	91	91	96	455	360	815	2.748
55	250MC	MMG-G	4	1660	200	130	630	555	493	11	6	23	91	91	106	455	480	935	2.954
75	280SB	MMG-G	4	1750	200	130	675	605	560	9	6	23	91	91	142	455	621	1076	3.217
90	280MB	MMG-G	4	1750	200	130	675	605	560	9	6	23	91	91	192	455	706	1161	3.648
110	315SB	MMG-G	4	1850	200	130	725	665	617	8	6	23	91	91	251	455	920	1375	4.153

LS 200-150-483



TM07 2641 4018

LS 200-150-483 dimensional sketches



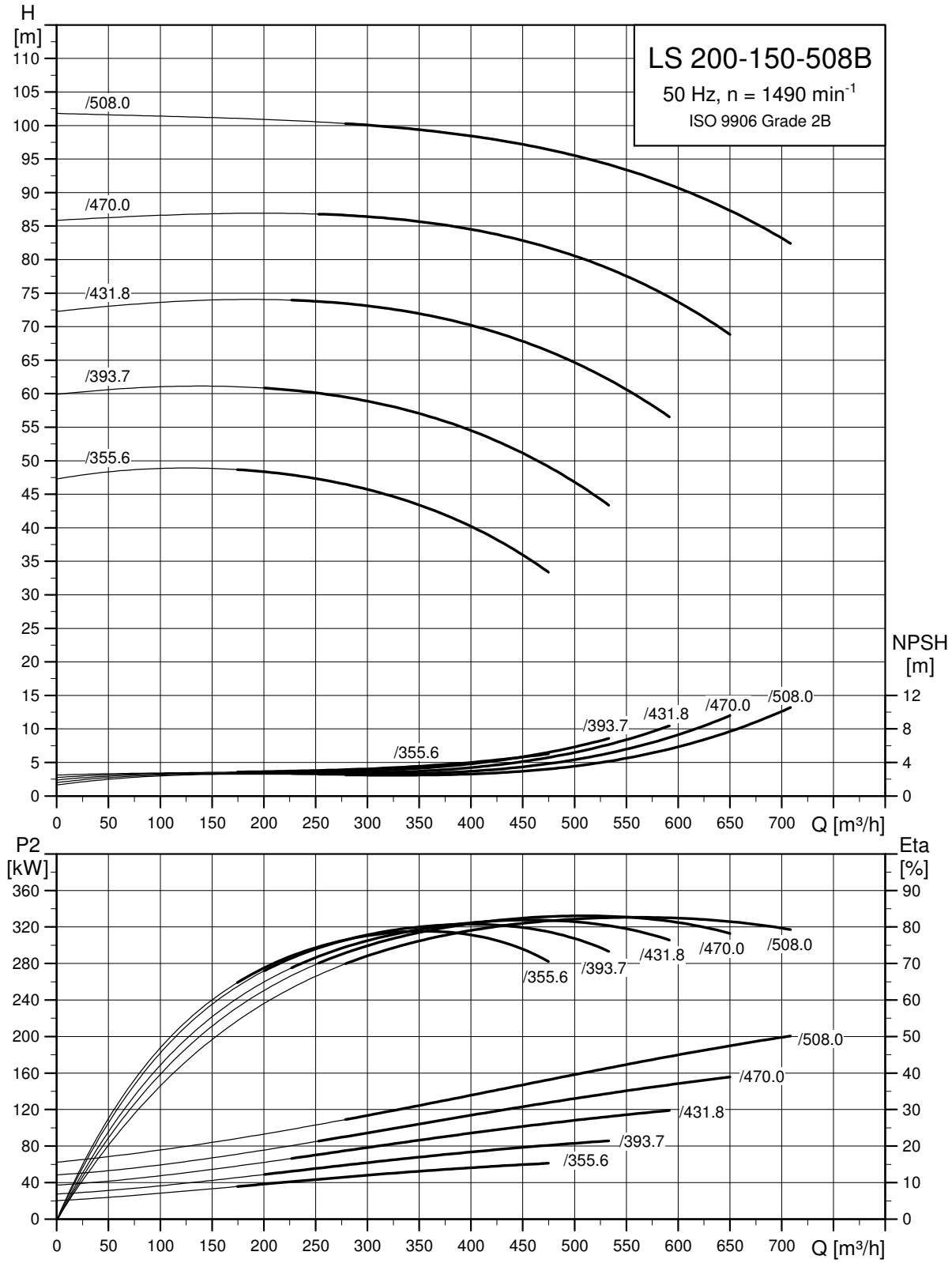
TM07 2172 3118

LS 200-150-483 dimensions

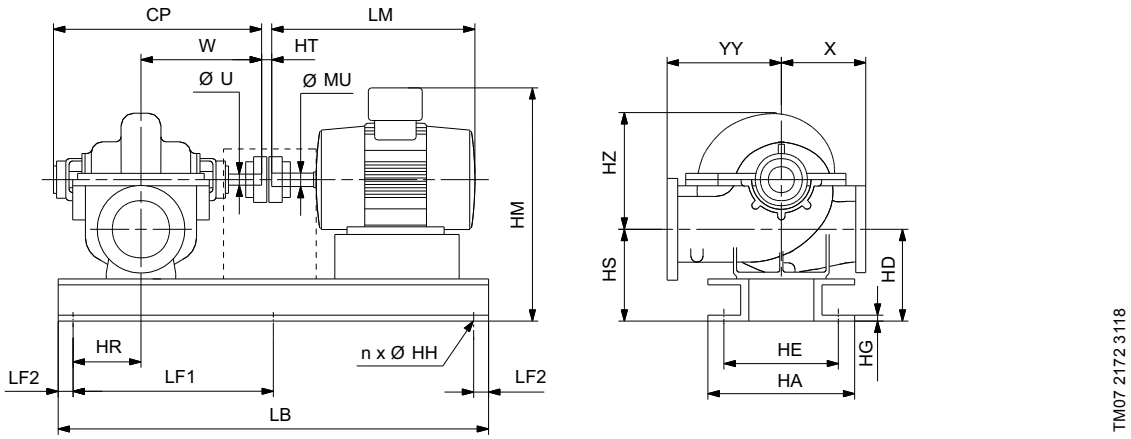
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
55	250M	Siemens	4	888	888	489	44.45	432	432	311	311	615	957	982	65	4
75	280S	Siemens	4	888	888	489	44.45	432	432	311	311	615	960	1005	75	13
90	280M	Siemens	4	888	888	489	44.45	432	432	311	311	615	1070	1005	75	13
110	315S	Siemens	4	899	899	489	50.80	432	432	371	371	615	1102	1147	80	13
132	315MA	Siemens	4	899	899	489	50.80	432	432	371	371	615	1262	1147	80	13
160	315L	Siemens	4	899	899	489	50.80	432	432	371	371	615	1262	1147	80	13
55	250MC	MMG-G	4	888	888	489	44.45	432	432	311	311	615	921	972	65	4
75	280SB	MMG-G	4	888	888	489	44.45	432	432	311	311	615	1037.5	1005	75	13
90	280MB	MMG-G	4	888	888	489	44.45	432	432	311	311	615	1087.5	1005	75	13
110	315SB	MMG-G	4	899	899	489	50.80	432	432	371	371	615	1246	1160	80	13
132	315MB	MMG-G	4	899	899	489	50.80	432	432	371	371	615	1296	1160	80	13
160	315LB	MMG-G	4	899	899	489	50.80	432	432	371	371	615	1396	1160	80	13

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
55	250M	Siemens	4	1580	200	80	590	545	502	9	6	23	119	119	80	534	460	1119	2.09
75	280S	Siemens	4	1673	200	80	637	605	560	9	6	23	119	119	69	534	575	1249	2.22
90	280M	Siemens	4	1673	200	80	637	605	560	9	6	23	119	119	179	534	675	1349	2.35
110	315S	Siemens	4	1852	200	80	726	710	650	11	6	23	119	119	12	534	810	1540	2.65
132	315MA	Siemens	4	1852	200	80	726	710	650	11	6	23	119	119	177	534	965	1695	2.87
160	315L	Siemens	4	1852	200	80	726	710	650	11	6	23	119	119	177	534	1100	1830	2.87
55	250MC	MMG-G	4	1580	200	80	590	545	502	9	6	23	119	119	114	534	480	1014	3.020
75	280SB	MMG-G	4	1673	200	80	637	605	560	9	6	23	119	119	147	534	621	1155	3.294
90	280MB	MMG-G	4	1673	200	80	637	605	560	9	6	23	119	119	197	534	706	1240	3.373
110	315SB	MMG-G	4	1852	200	80	726	710	650	11	6	23	119	119	176	534	920	1454	4.437
132	315MB	MMG-G	4	1852	200	80	726	710	650	11	6	23	119	119	226	534	1000	1534	4.533
160	315LB	MMG-G	4	1852	200	80	726	710	650	11	6	23	119	119	326	534	1070	1604	4.727

LS 200-150-508



LS 200-150-508 dimensional sketches

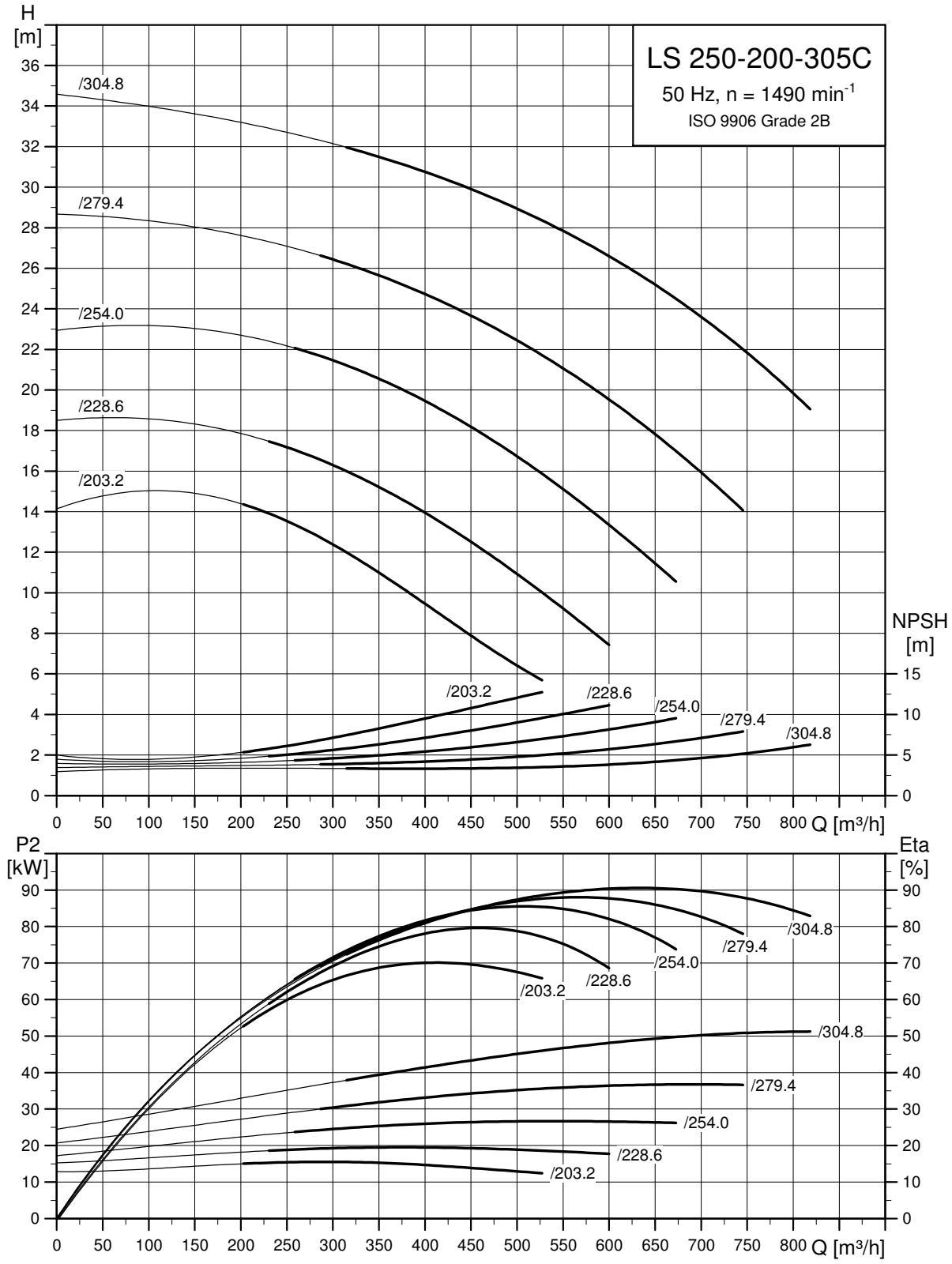


LS 200-150-508 dimensions

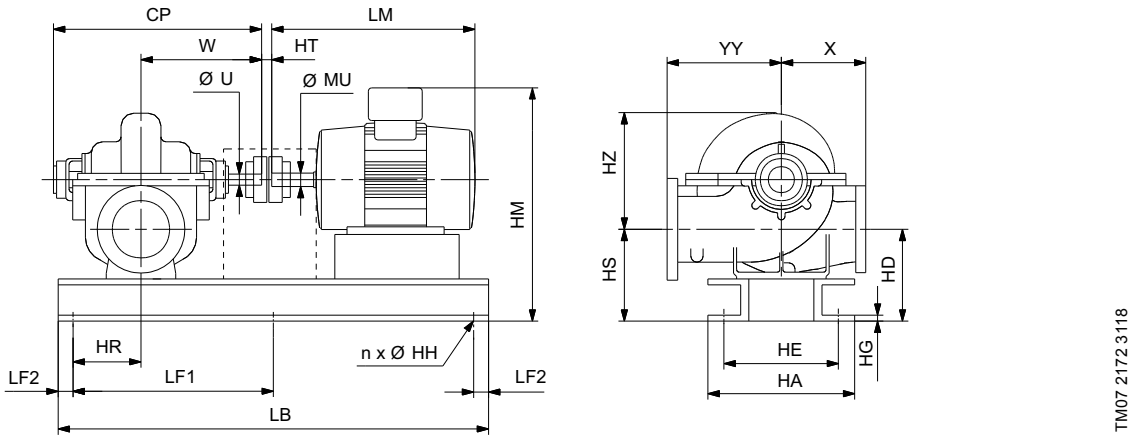
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
55	250M	Siemens	4	995	995	546	53.98	432	483	291	291	660	957	981	65	4
75	280S	Siemens	4	995	995	546	53.98	432	483	311	311	660	960	1024	75	5
90	280M	Siemens	4	995	995	546	53.98	432	483	311	311	660	1070	1024	75	5
110	315S	Siemens	4	995	995	546	53.98	432	483	371	371	660	1102	1166	80	5
132	315MA	Siemens	4	995	995	546	53.98	432	483	371	371	660	1262	1166	80	5
160	315L	Siemens	4	995	995	546	53.98	432	483	371	371	660	1262	1166	80	5
200	315L	Siemens	4	995	995	546	53.98	432	483	371	371	660	1402	1166	80	5
250	315L	Siemens	4	995	995	546	53.98	432	483	291	291	660	1410	1071	85	5
55	250MC	MMG-G	4	995	995	546	53.98	432	483	311	311	660	921	991	65	4
75	280SB	MMG-G	4	995	995	546	53.98	432	483	311	311	660	1037.5	1024	75	5
90	280MB	MMG-G	4	995	995	546	53.98	432	483	311	311	660	1087.5	1024	75	5
110	315SB	MMG-G	4	995	995	546	53.98	432	483	371	371	660	1246	1179	80	5
132	315MB	MMG-G	4	995	995	546	53.98	432	483	371	371	660	1296	1179	80	5
160	315LB	MMG-G	4	995	995	546	53.98	432	483	371	371	660	1396	1179	80	5
200	315LC	MMG-G	4	995	995	546	53.98	432	483	371	371	660	1396	1179	80	5
250	355MB	MMG-G	4	995	995	546	53.98	432	483	371	371	660	1605	1296	100	5

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
55	250M	Siemens	4	1640	200	80	620	555	511	8.5	6	18	169	169	77	545	460	1131	2.51
75	280S	Siemens	4	1750	200	80	675	605	577	9	6	23	169	169	41	545	575	1259	2.71
90	280M	Siemens	4	1750	200	80	675	605	577	9	6	23	169	169	151	545	675	1359	2.84
110	315S	Siemens	4	1980	200	80	790	725	665	11	6	23	169	169	-	545	810	1564	3.32
132	315MA	Siemens	4	1980	200	80	790	725	665	11	6	23	169	169	98	545	965	1719	3.45
160	315L	Siemens	4	1980	200	80	790	725	665	11	6	23	169	169	98	545	1100	1854	3.45
200	315L	Siemens	4	1980	200	80	790	725	665	11	6	23	169	169	98	545	1300	2054	3.45
250	315L	Siemens	4	2000	200	80	800	725	681	8.5	6	18	169	169	78	545	1300	2079	3.19
55	250MC	MMG-G	4	1640	200	80	620	555	511	8.5	6	18	169	169	111	545	480	1025	3.372
75	280SB	MMG-G	4	1750	200	80	675	605	577	9	6	23	169	169	119	545	621	1166	4.051
90	280MB	MMG-G	4	1750	200	80	675	605	577	9	6	23	169	169	169	545	706	1251	4.143
110	315SB	MMG-G	4	1980	200	80	790	725	665	11	6	23	169	169	97	545	920	1465	4.886
132	315MB	MMG-G	4	1980	200	80	790	725	665	11	6	23	169	169	147	545	1000	1545	4.988
160	315LB	MMG-G	4	1980	200	80	790	725	665	11	6	23	169	169	247	545	1070	1615	5.192
200	315LC	MMG-G	4	1980	200	80	790	725	665	11	6	23	169	169	247	545	1260	1805	5.192
250	355MB	MMG-G	4	2140	200	80	870	800	738	10.5	6	18	169	169	296	545	1820	2365	6.012

LS 250-200-305



LS 250-200-305 dimensional sketches



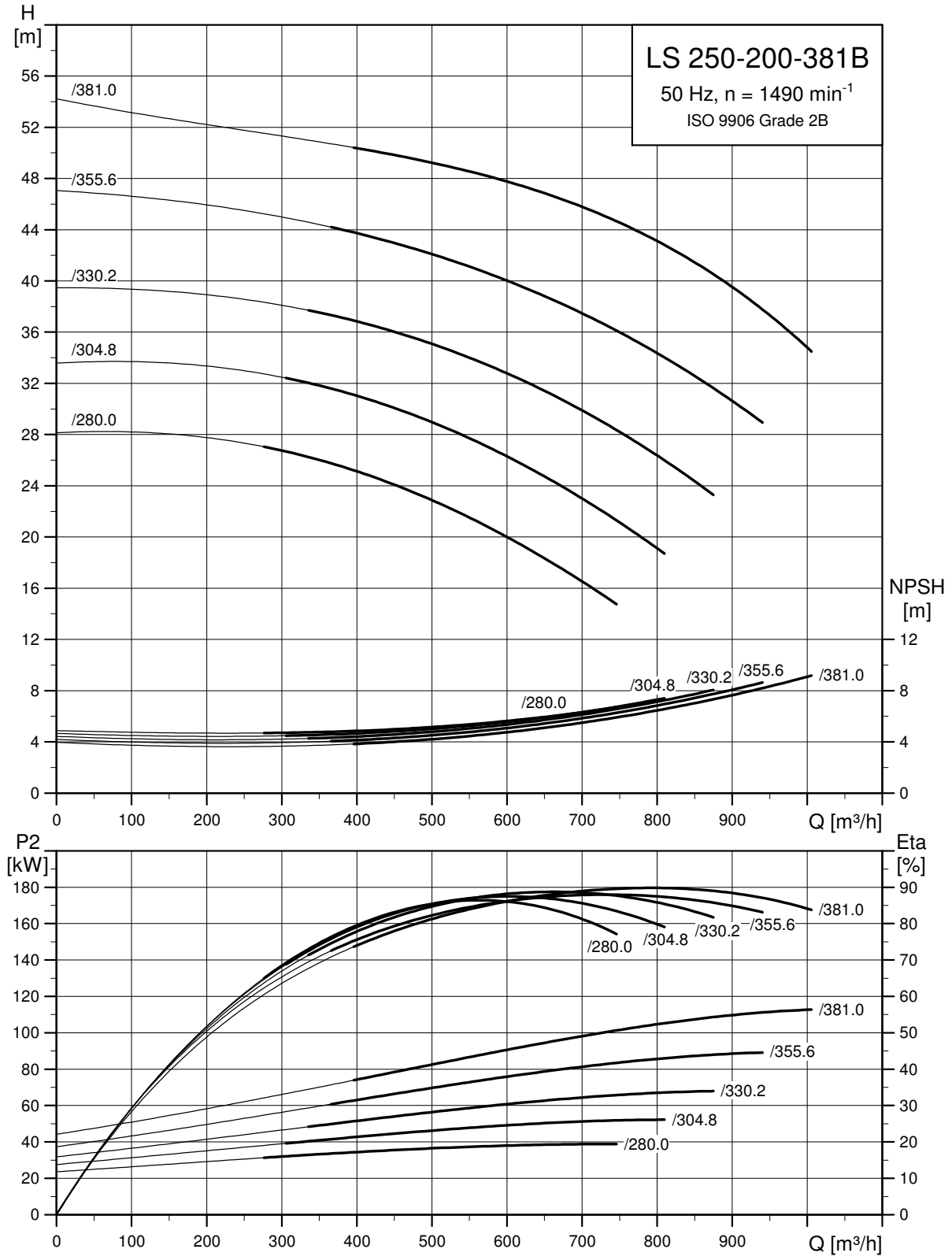
TM07 2172 3118

LS 250-200-305 dimensions

Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
15	160LB	MG	4	929	929	508	44.45	406	432	311	311	580	655	875	42	3
18.5	180M	Siemens	4	929	929	508	44.45	406	432	311	311	580	712	844	48	4
22	180L	Siemens	4	929	929	508	44.45	406	432	311	311	580	712	844	48	4
30	200L	Siemens	4	929	929	508	44.45	406	432	311	311	580	769	953	55	4
37	225S	Siemens	4	929	929	508	44.45	406	432	311	311	580	789	916	60	7
45	225M	Siemens	4	929	929	508	44.45	406	432	311	311	580	849	916	60	7
55	250M	Siemens	4	929	929	508	44.45	406	432	311	311	580	957	988	65	7
15	160L	MMG-G	4	929	929	508	44.45	406	432	311	311	580	652	819	42	3
18.5	180M	MMG-G	4	929	929	508	44.45	406	432	311	311	580	672	845	48	4
22	180L	MMG-G	4	929	929	508	44.45	406	432	311	311	580	710	845	48	4
30	200L	MMG-G	4	929	929	508	44.45	406	432	311	311	580	770	910	55	4
37	225SC	MMG-G	4	929	929	508	44.45	406	432	311	311	580	816	936	60	7
45	225MC	MMG-G	4	929	929	508	44.45	406	432	311	311	580	841	936	60	7
55	250MC	MMG-G	4	929	929	508	44.45	406	432	311	311	580	921	978	65	7

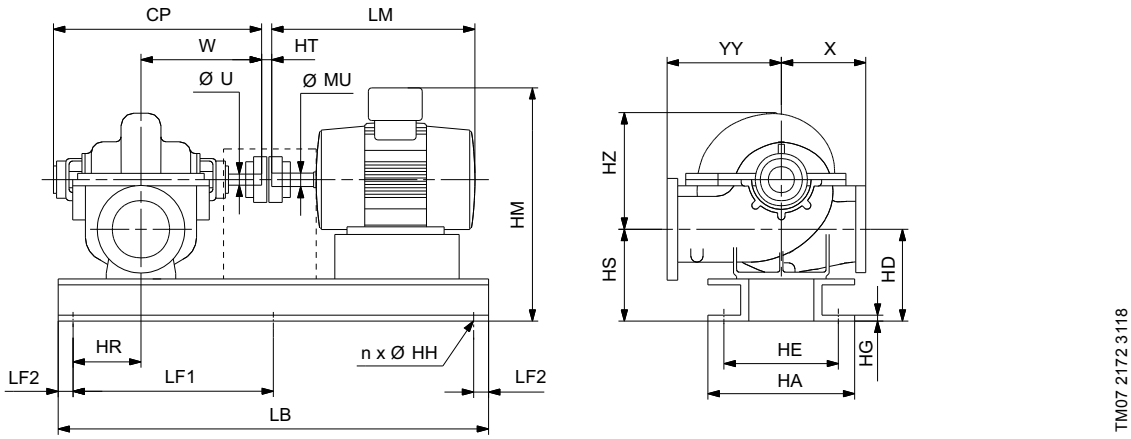
Motor				Base frame dimensions [mm]								Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
15	160LB	MG	4	1420	200	100	510	360	298	11	6	23	121	121	46	511	115	724	1.95
18.5	180M	Siemens	4	1460	200	100	530	390	346	8.5	6	18	121	121	20	511	126	737	1.82
22	180L	Siemens	4	1460	200	100	530	390	346	8.5	6	18	121	121	50	511	146	757	1.85
30	200L	Siemens	4	1500	200	100	550	425	363	11	6	23	121	121	58	511	200	814	2.03
37	225S	Siemens	4	1550	200	100	575	495	452	9	6	23	121	121	52	511	290	917	2.03
45	225M	Siemens	4	1550	200	100	575	495	452	9	6	23	121	121	112	511	330	957	2.09
55	250M	Siemens	4	1630	200	100	615	545	500	9	6	23	121	121	71	511	460	1101	2.28
15	160L	MMG-G	4	1420	200	100	510	360	298	11	6	23	121	121	43	511	150	661	2.449
18.5	180M	MMG-G	4	1460	200	100	530	390	346	8.5	6	18	121	121	24	511	195	706	2.479
22	180L	MMG-G	4	1460	200	100	530	390	346	8.5	6	18	121	121	62	511	205	716	2.532
30	200L	MMG-G	4	1500	200	100	550	425	363	11	6	23	121	121	82	511	285	796	2.657
37	225SC	MMG-G	4	1550	200	100	575	495	452	9	6	23	121	121	81	511	350	861	2.783
45	225MC	MMG-G	4	1550	200	100	575	495	452	9	6	23	121	121	106	511	360	871	2.820
55	250MC	MMG-G	4	1630	200	100	615	545	500	9	6	23	121	121	106	511	480	991	3.033

LS 250-200-381



TM07 2647 4018

LS 250-200-381 dimensional sketches



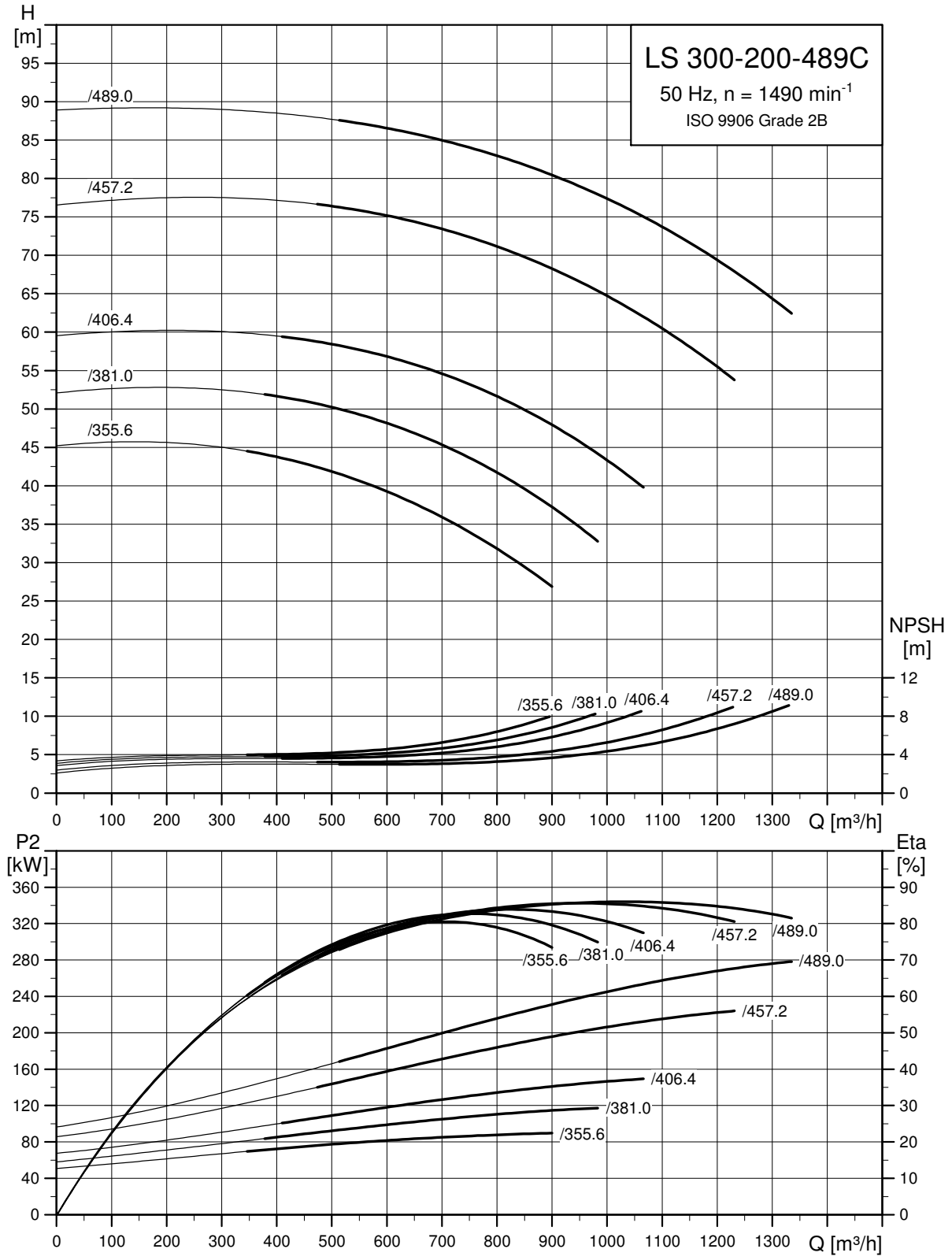
TM07 2172 3118

LS 250-200-381 dimensions

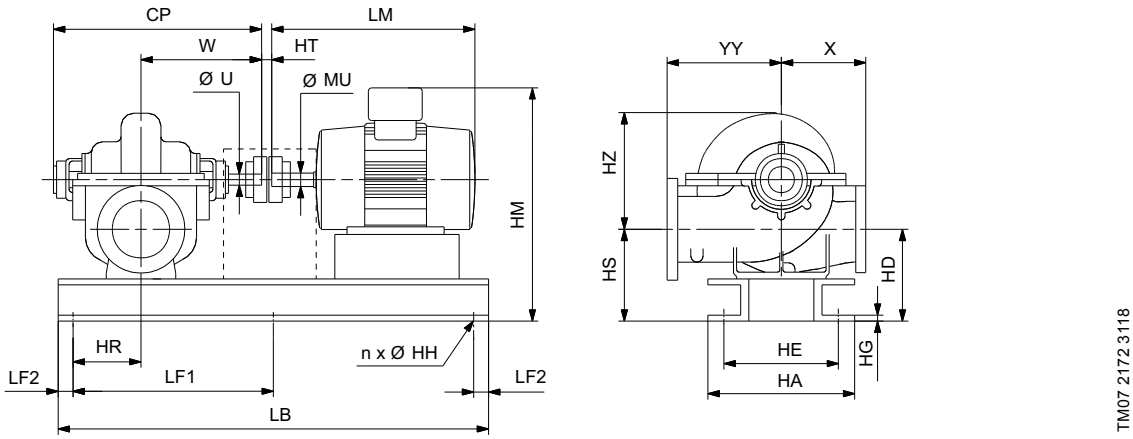
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
30	200L	Siemens	4	949	949	518	44.45	483	483	318	318	655	769	918	55	4
37	225S	Siemens	4	949	949	518	44.45	483	483	318	318	655	789	1021	60	7
45	225M	Siemens	4	949	949	518	44.45	483	483	318	318	655	849	1021	60	7
55	250M	Siemens	4	949	949	518	44.45	483	483	318	318	655	957	1013	65	7
75	280S	Siemens	4	949	949	518	44.45	483	483	318	318	655	960	1056	75	17
90	280M	Siemens	4	949	949	518	44.45	483	483	318	318	655	1070	1056	75	17
110	315S	Siemens	4	949	949	518	44.45	483	483	378	378	655	1102	1198	80	17
132	315MA	Siemens	4	949	949	518	44.45	483	483	378	378	655	1262	1198	80	17
160	315L	Siemens	4	949	949	518	44.45	483	483	378	378	655	1262	1198	80	17
30	200L	MMG-G	4	949	949	518	44.45	483	483	318	318	655	770	955	55	4
37	225SC	MMG-G	4	949	949	518	44.45	483	483	318	318	655	816	981	60	7
45	225MC	MMG-G	4	949	949	518	44.45	483	483	318	318	655	841	981	60	7
55	250MC	MMG-G	4	949	949	518	44.45	483	483	318	318	655	921	1023	65	7
75	280SB	MMG-G	4	949	949	518	44.45	483	483	318	318	655	1037.5	1056	75	17
90	280MB	MMG-G	4	949	949	518	44.45	483	483	318	318	655	1087.5	1056	75	17
110	315SB	MMG-G	4	949	949	518	44.45	483	483	378	378	655	1246	1211	80	17
132	315MB	MMG-G	4	949	949	518	44.45	483	483	378	378	655	1296	1211	80	17
160	315LB	MMG-G	4	949	949	518	44.45	483	483	378	378	655	1396	1211	80	17

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
30	200L	Siemens	4	1560	200	150	580	425	381	8.5	6	18	81	81	58	568	200	882	2.30
37	225S	Siemens	4	1620	200	150	610	465	403	11	6	23	81	81	42	568	290	981	2.57
45	225M	Siemens	4	1620	200	150	610	465	403	11	6	23	81	81	102	568	330	1021	2.65
55	250M	Siemens	4	1690	200	150	645	555	511	8.5	6	18	81	81	71	568	460	1164	2.65
75	280S	Siemens	4	1780	200	150	690	605	577	9	6	23	81	81	64	568	575	1301	2.86
90	280M	Siemens	4	1780	200	150	690	605	577	9	6	23	81	81	174	568	675	1401	3.01
110	315S	Siemens	4	1950	200	150	775	710	650	11	6	23	81	81	16	568	810	1597	3.40
132	315MA	Siemens	4	1950	200	150	775	710	650	11	6	23	81	81	181	568	965	1752	3.65
160	315L	Siemens	4	1950	200	150	775	710	650	11	6	23	81	81	181	568	1100	1887	3.65
30	200L	MMG-G	4	1560	200	150	580	425	381	8.5	6	18	81	81	82	568	285	853	3.138
37	225SC	MMG-G	4	1620	200	150	610	465	403	11	6	23	81	81	71	568	350	918	3.238
45	225MC	MMG-G	4	1620	200	150	610	465	403	11	6	23	81	81	96	568	360	928	3.280
55	250MC	MMG-G	4	1690	200	150	645	555	511	8.5	6	18	81	81	106	568	480	1048	3.523
75	280SB	MMG-G	4	1780	200	150	690	605	577	9	6	23	81	81	142	568	621	1189	4.241
90	280MB	MMG-G	4	1780	200	150	690	605	577	9	6	23	81	81	192	568	706	1274	4.340
110	315SB	MMG-G	4	1950	200	150	775	710	650	11	6	23	81	81	181	568	920	1488	5.114
132	315MB	MMG-G	4	1950	200	150	775	710	650	11	6	23	81	81	231	568	1000	1568	5.222
160	315LB	MMG-G	4	1950	200	150	775	710	650	11	6	23	81	81	331	568	1070	1638	5.439

LS 300-200-489



LS 300-200-489 dimensional sketches



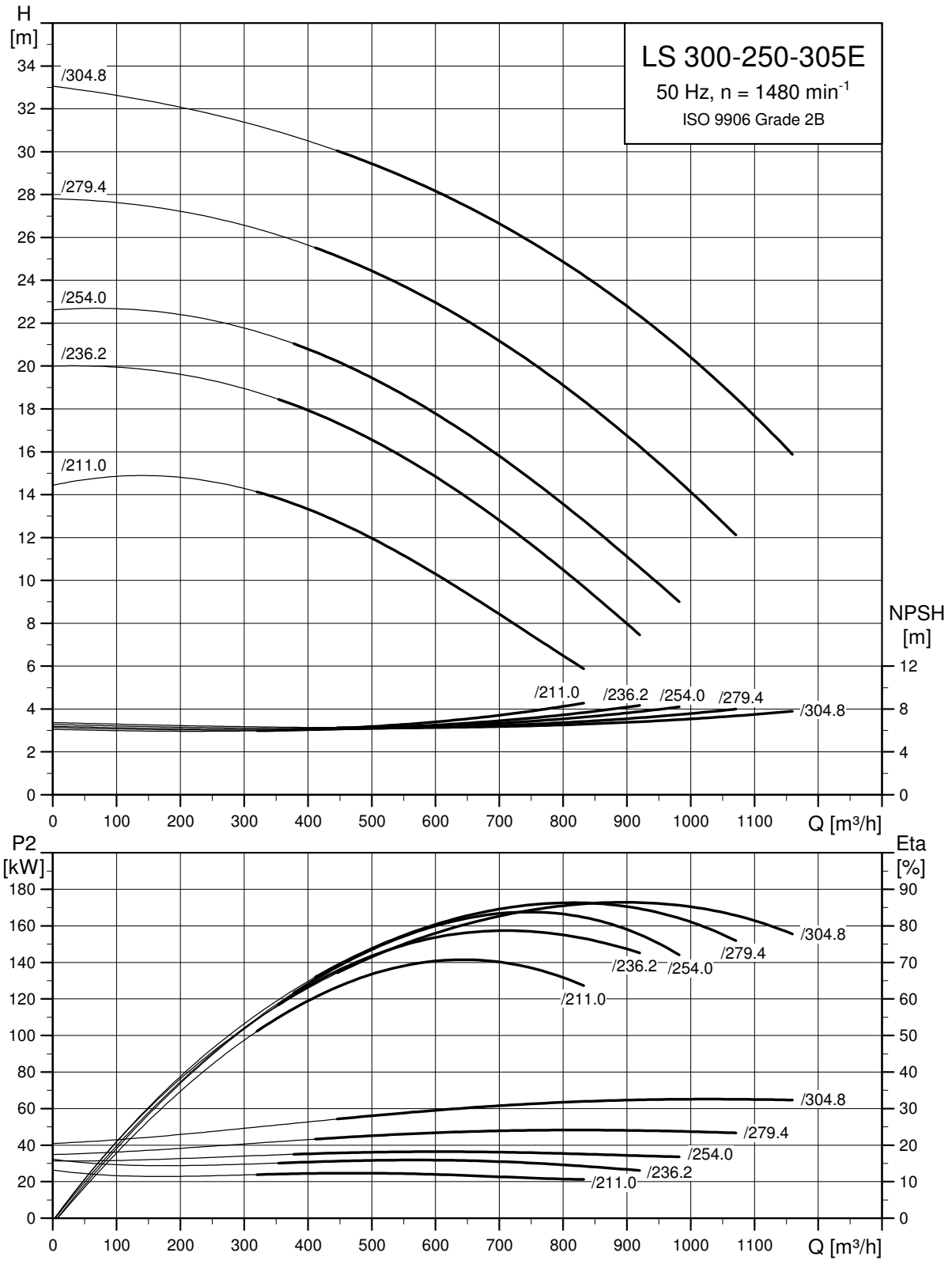
TM07 2172 3118

LS 300-200-489 dimensions

Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
				CP											
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
110	315S	Siemens	4	1306	1306	723	63.5	414	559	398	398	745	1102	1244	80	4
132	315MA	Siemens	4	1306	1306	723	63.5	414	559	398	398	745	1262	1244	80	4
160	315L	Siemens	4	1306	1306	723	63.5	414	559	398	398	745	1262	1244	80	4
200	315L	Siemens	4	1306	1306	723	63.5	414	559	398	398	745	1402	1244	80	4
250	315L	Siemens	4	1306	1306	723	63.5	414	559	398	398	745	1410	1149	85	4
315	315L	Siemens	4	1306	1306	723	63.5	414	559	398	398	745	1400	1149	85	4
355	355L	Siemens	4	1306	1306	723	63.5	414	559	398	398	745	1835	1426	95	4
110	315SB	MMG-G	4	1306	1306	723	63.5	414	559	398	398	745	1246	1257	80	4
132	315MB	MMG-G	4	1306	1306	723	63.5	414	559	398	398	745	1296	1257	80	4
160	315LB	MMG-G	4	1306	1306	723	63.5	414	559	398	398	745	1396	1257	80	4
200	315LC	MMG-G	4	1306	1306	723	63.5	414	559	398	398	745	1396	1257	80	4
250	355MB	MMG-G	4	1306	1306	723	63.5	414	559	398	398	745	1605	1374	100	4
315	355LB	MMG-G	4	1306	1306	723	63.5	414	559	398	398	745	1605	1374	100	4
355	355CB	MMG-G	4	1306	1306	723	63.5	414	559	398	398	745	1795	1374	100	4

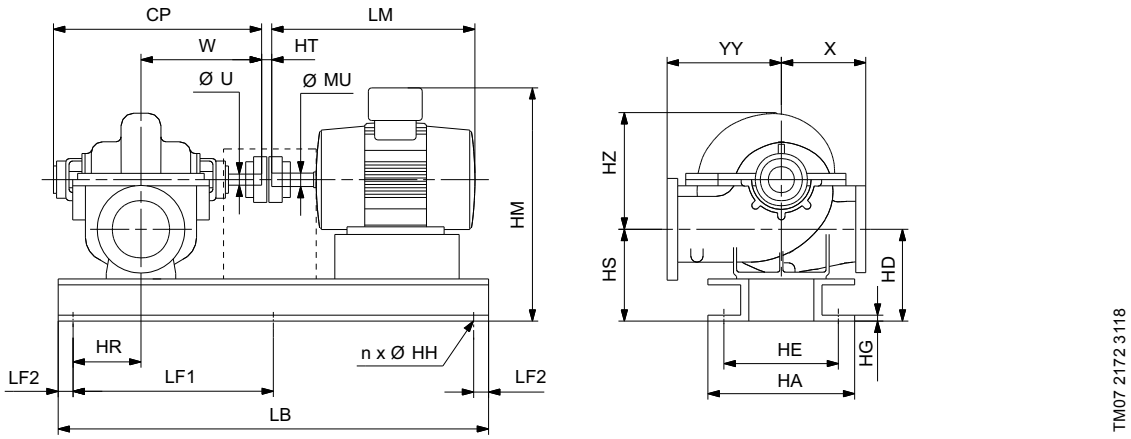
Motor				Base frame dimensions [mm]								Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
110	315S	Siemens	4	2150	200	150	875	700	638	11	6	18	233	233	28	727	810	1773	4.12
132	315MA	Siemens	4	2150	200	150	875	700	638	11	6	18	233	233	188	727	965	1928	4.37
160	315L	Siemens	4	2150	200	150	875	700	638	11	6	18	233	233	188	727	1100	2063	4.37
200	315L	Siemens	4	2150	200	150	875	700	638	11	6	18	233	233	328	727	1300	2263	4.59
250	315L	Siemens	4	2200	200	150	900	725	681	8.5	6	18	233	233	236	727	1300	2293	4.28
315	315L	Siemens	4	2200	200	150	900	725	681	8.5	6	18	233	233	226	727	1300	2293	4.28
355	355L	Siemens	4	2450	200	150	1025	850	788	11	6	23	233	233	461	727	1900	2964	4.63
110	315SB	MMG-G	4	2150	200	150	875	700	638	11	6	18	233	233	173	727	920	1647	6.051
132	315MB	MMG-G	4	2150	200	150	875	700	638	11	6	18	233	233	223	727	1000	1727	6.163
160	315LB	MMG-G	4	2150	200	150	875	700	638	11	6	18	233	233	323	727	1070	1797	6.386
200	315LC	MMG-G	4	2150	200	150	875	700	638	11	6	18	233	233	323	727	1260	1987	6.386
250	355MB	MMG-G	4	2460	200	150	1030	827	681	8.5	6	18	233	233	222	727	1820	2547	7.312
315	355LB	MMG-G	4	2460	200	150	1030	827	765	10.5	6	18	233	233	222	727	2150	2877	7.312
355	355CB	MMG-G	4	2750	200	150	1175	850	788	11	6	23	233	233	122	727	2300	3027	7.832

LS 300-250-305



TM07 2625 4018

LS 300-250-305 dimensional sketches



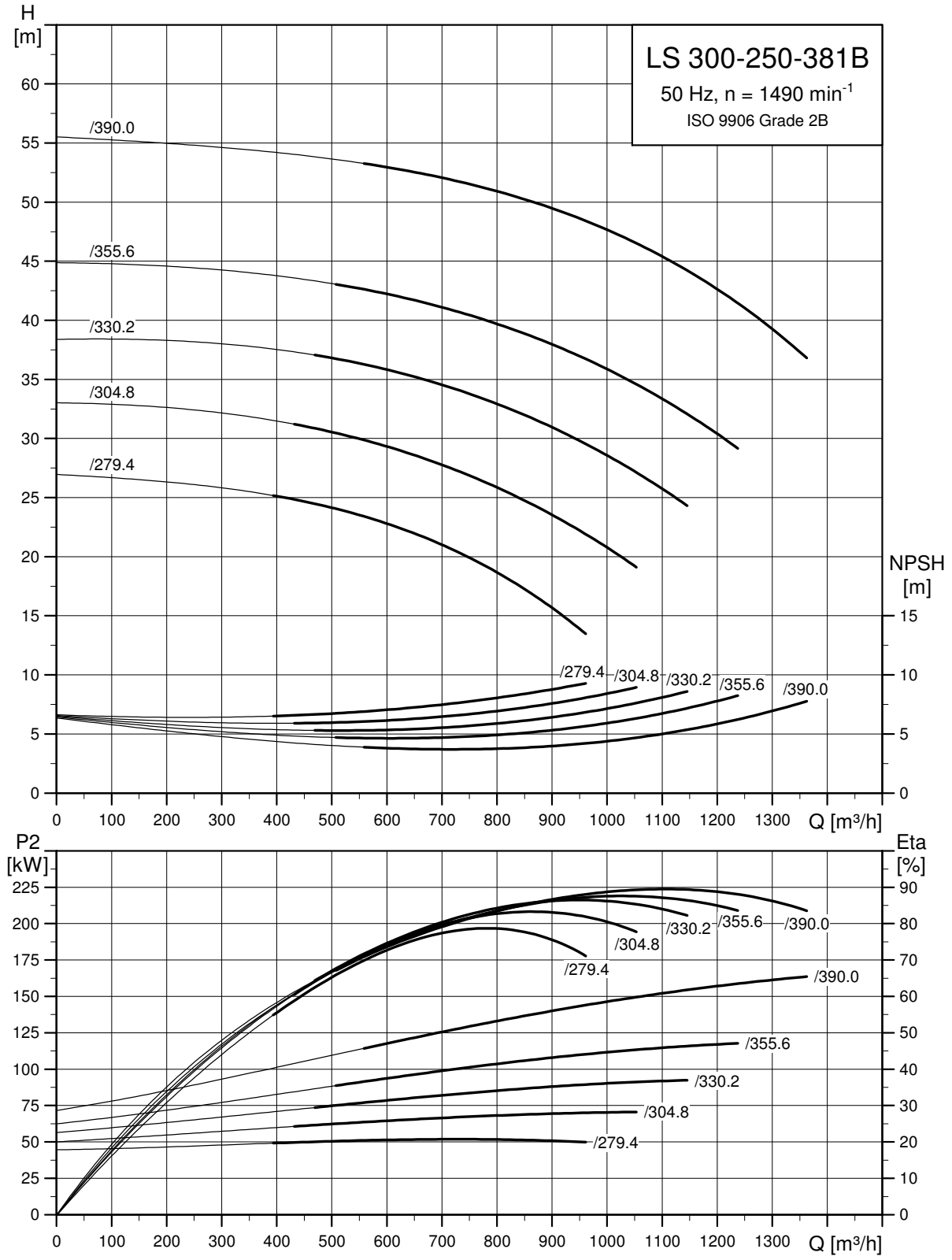
TM07 2172 3118

LS 300-250-305 dimensions

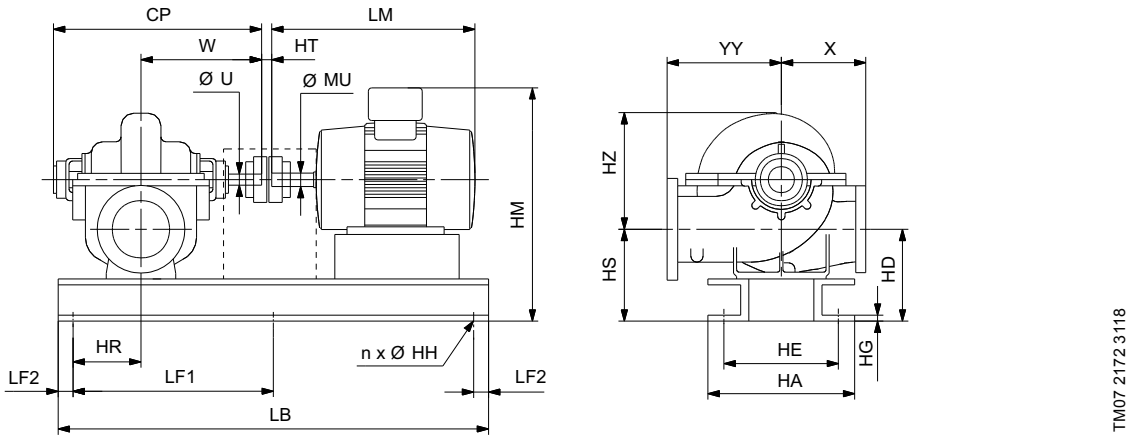
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
30	200L	Siemens	4	974	974	530	44.45	495	495	343	343	645	769	958	55	4
37	225S	Siemens	4	974	974	530	44.45	495	495	343	343	645	789	981	60	6
45	225M	Siemens	4	974	974	530	44.45	495	495	343	343	645	849	981	60	6
55	250M	Siemens	4	974	974	530	44.45	495	495	343	343	645	957	1053	65	6
75	280S	Siemens	4	974	974	530	44.45	495	495	343	343	645	960	1076	75	16
90	280M	Siemens	4	974	974	530	44.45	495	495	343	343	645	1070	1076	75	16
30	200L	MMG-G	4	974	974	530	44.45	495	495	343	343	645	770	975	55	4
37	225SC	MMG-G	4	974	974	530	44.45	495	495	343	343	645	816	1001	60	6
45	225MC	MMG-G	4	974	974	530	44.45	495	495	343	343	645	841	1001	60	6
55	250MC	MMG-G	4	974	974	530	44.45	495	495	343	343	645	921	1043	65	6
75	280SB	MMG-G	4	974	974	530	44.45	495	495	343	343	645	1037.5	1076	75	16
90	280MB	MMG-G	4	974	974	530	44.45	495	495	343	343	645	1087.5	1076	75	16

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
30	200L	Siemens	4	1570	200	150	585	420	372	9	6	18	94	94	60	727	200	1044	0.41
37	225S	Siemens	4	1650	200	150	625	465	417	9	6	18	94	94	25	636	290	1054	2.51
45	225M	Siemens	4	1650	200	150	625	465	417	9	6	18	94	94	85	636	330	1094	2.59
55	250M	Siemens	4	1720	200	150	660	526	472	9	6	23	94	94	54	636	460	1247	2.84
75	280S	Siemens	4	1800	200	150	700	575	528	9	6	23	94	94	57	636	575	1371	3.01
90	280M	Siemens	4	1800	200	150	700	575	528	9	6	23	94	94	167	636	675	1471	3.16
30	200L	MMG-G	4	1570	200	150	585	420	372	9	6	18	94	94	84	727	285	1012	3.276
37	225SC	MMG-G	4	1650	200	150	625	465	417	9	6	18	94	94	52	636	350	986	3.392
45	225MC	MMG-G	4	1650	200	150	625	465	417	9	6	18	94	94	77	636	360	996	3.436
55	250MC	MMG-G	4	1720	200	150	660	526	472	9	6	23	94	94	87	636	480	1116	3.686
75	280SB	MMG-G	4	1800	200	150	700	575	528	9	6	23	94	94	134	636	621	1257	4.428
90	280MB	MMG-G	4	1800	200	150	700	575	528	9	6	23	94	94	184	636	706	1342	4.529

LS 300-250-381



LS 300-250-381 dimensional sketches

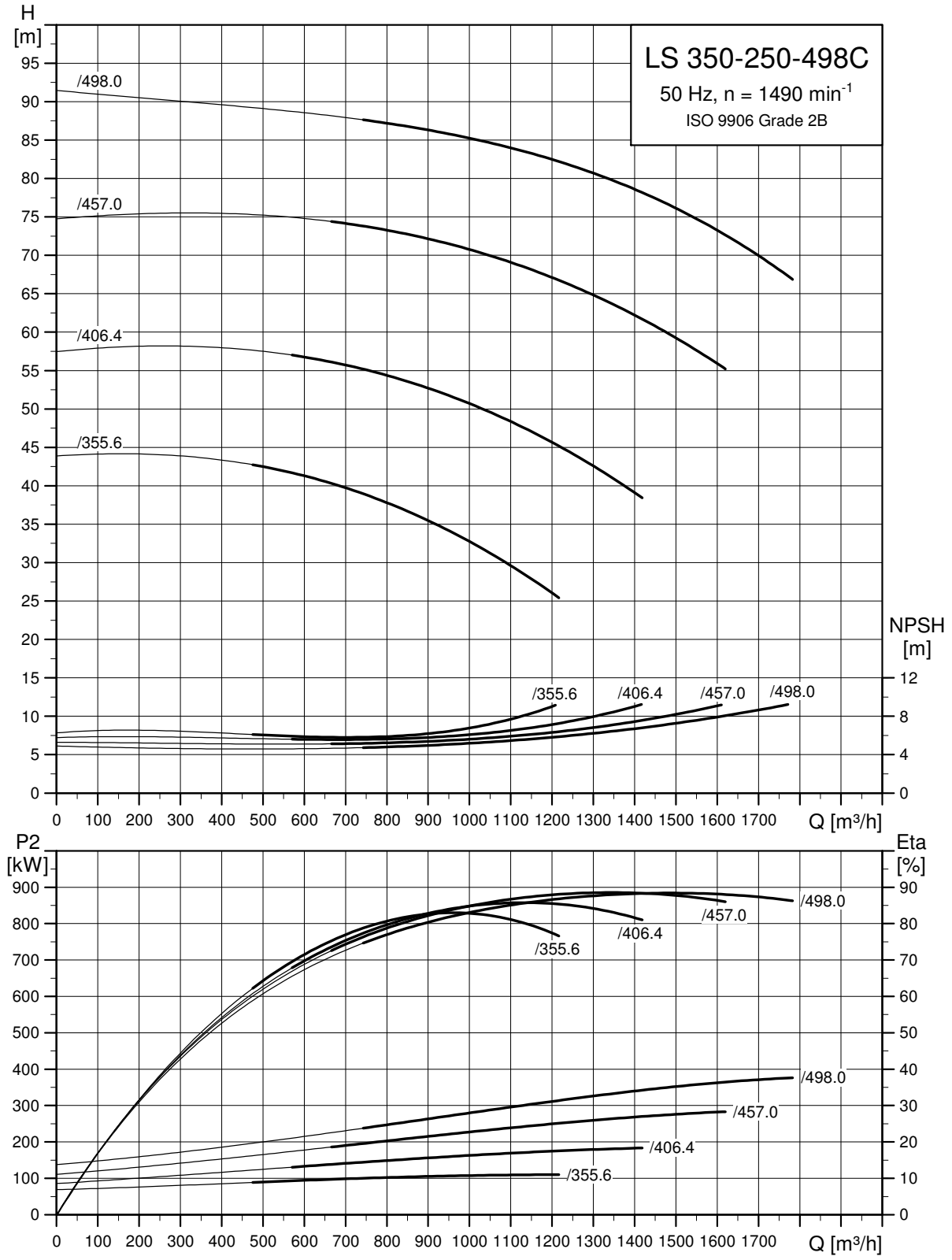


LS 300-250-381 dimensions

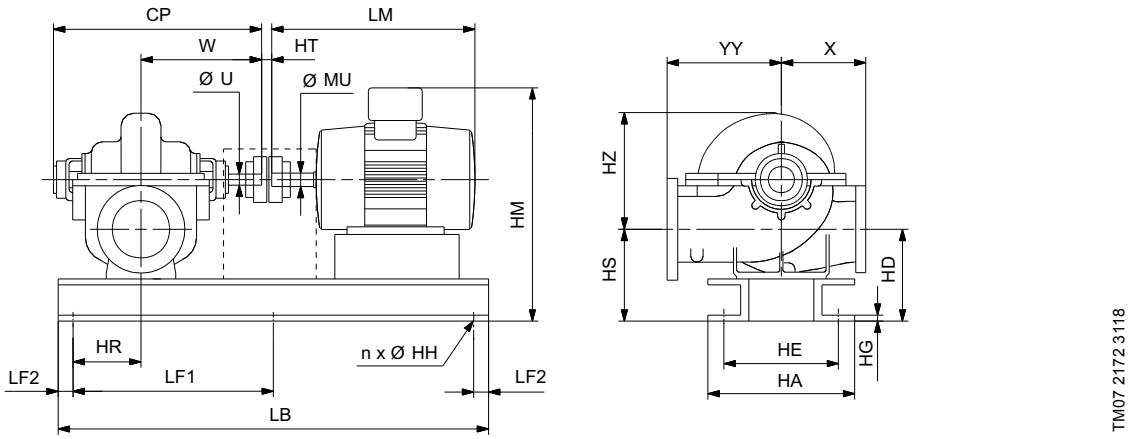
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
55	250M	Siemens	4	1051	1051	600	57.15	432	584	394	394	630	957	1058	65	4
75	280S	Siemens	4	1051	1051	600	57.15	432	584	454	454	630	960	1141	75	4
90	280M	Siemens	4	1051	1051	600	57.15	432	584	454	454	630	1070	1141	75	4
110	315S	Siemens	4	1051	1051	600	57.15	432	584	434	434	630	1102	1203	80	4
132	315MA	Siemens	4	1051	1051	600	57.15	432	584	434	434	630	1262	1203	80	4
160	315L	Siemens	4	1051	1051	600	57.15	432	584	434	434	630	1262	1203	80	4
200	315L	Siemens	4	1051	1051	600	57.15	432	584	434	434	630	1402	1203	80	4
55	250MC	MMG-G	4	1051	1051	600	57.15	432	584	394	394	630	921	1048	65	4
75	280SB	MMG-G	4	1051	1051	600	57.15	432	584	454	454	630	1037.5	1141	75	4
90	280MB	MMG-G	4	1051	1051	600	57.15	432	584	454	454	630	1087.5	1141	75	4
110	315SB	MMG-G	4	1051	1051	600	57.15	432	584	434	434	630	1246	1216	80	4
132	315MB	MMG-G	4	1051	1051	600	57.15	432	584	434	434	630	1296	1216	80	4
160	315LB	MMG-G	4	1051	1051	600	57.15	432	584	434	434	630	1396	1216	80	4
200	315LC	MMG-G	4	1051	1051	600	57.15	432	584	434	434	630	1396	1216	80	4

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
55	250M	Siemens	4	1700	200	80	650	560	512	9	6	18	171	171	71	991	460	1591	3.02
75	280S	Siemens	4	1800	200	80	700	600	538	11	6	23	171	171	44	991	575	1764	3.34
90	280M	Siemens	4	1800	200	80	700	600	538	11	6	23	171	171	154	991	675	1864	3.51
110	315S	Siemens	4	1960	200	80	780	632	632	10.5	6	23	171	171	6	991	810	2017	3.70
132	315MA	Siemens	4	1960	200	80	780	632	632	10.5	6	23	171	171	171	991	965	2172	3.96
160	315L	Siemens	4	1960	200	80	780	632	632	10.5	6	23	171	171	171	991	1100	2307	3.96
200	315L	Siemens	4	1960	200	80	780	632	632	10.5	6	23	171	171	171	991	1300	2507	3.96
55	250MC	MMG-G	4	1700	200	80	650	560	512	9	6	18	171	171	105	991	480	1471	3.911
75	280SB	MMG-G	4	1800	200	80	700	600	538	11	6	23	171	171	121	991	621	1612	4.842
90	280MB	MMG-G	4	1800	200	80	700	600	538	11	6	23	171	171	171	991	706	1697	4.950
110	315SB	MMG-G	4	1960	200	80	780	670	620	10.5	6	23	171	171	170	991	920	1911	5.533
132	315MB	MMG-G	4	1960	200	80	780	632	632	10.5	6	23	171	171	220	991	1000	1991	5.646
160	315LB	MMG-G	4	1960	200	80	780	632	632	10.5	6	23	171	171	320	991	1070	2061	5.871
200	315LC	MMG-G	4	1960	200	80	780	632	632	10.5	6	23	171	171	320	991	1260	2251	5.871

LS 350-250-498



LS 350-250-498 dimensional sketches

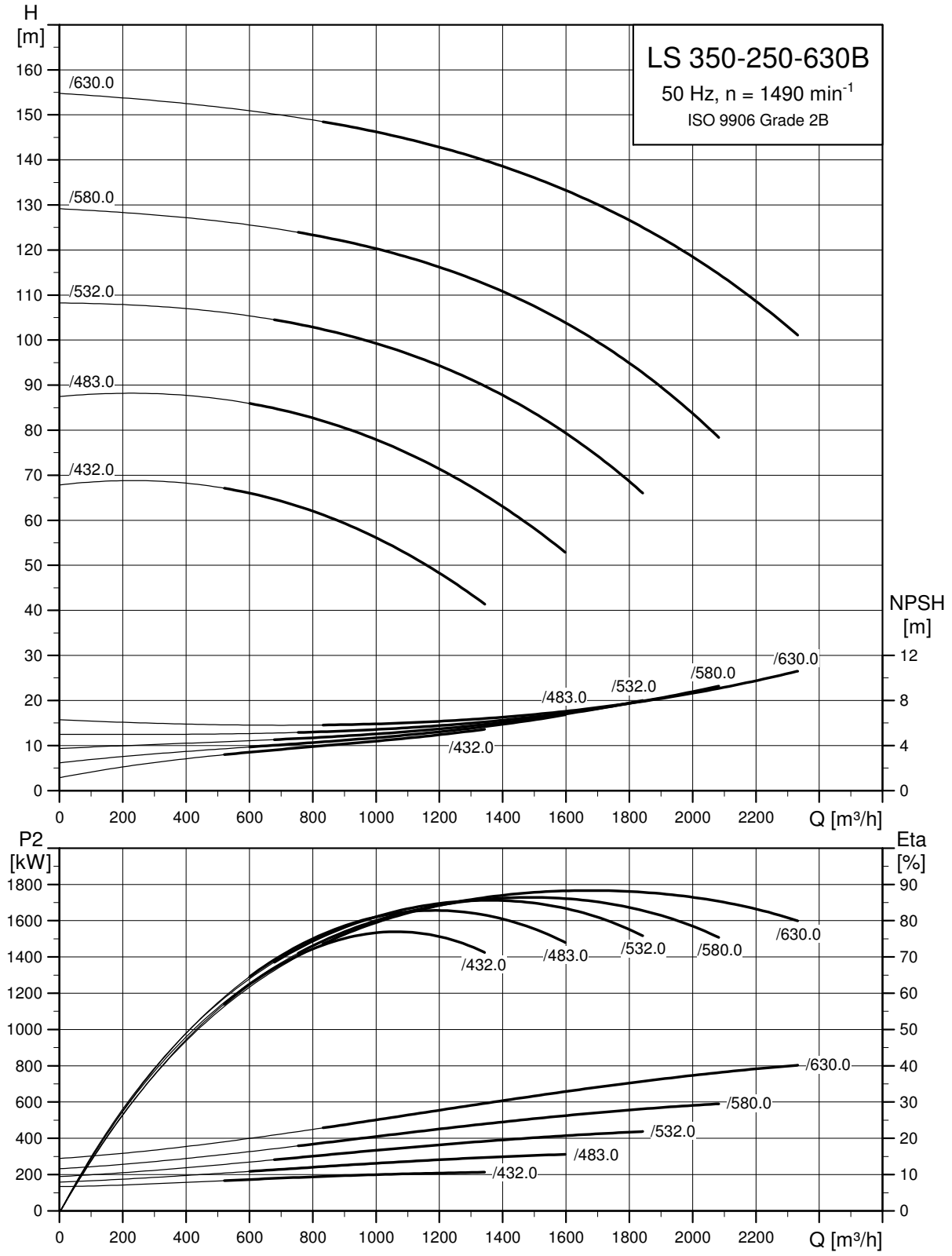


LS 350-250-498 dimensions

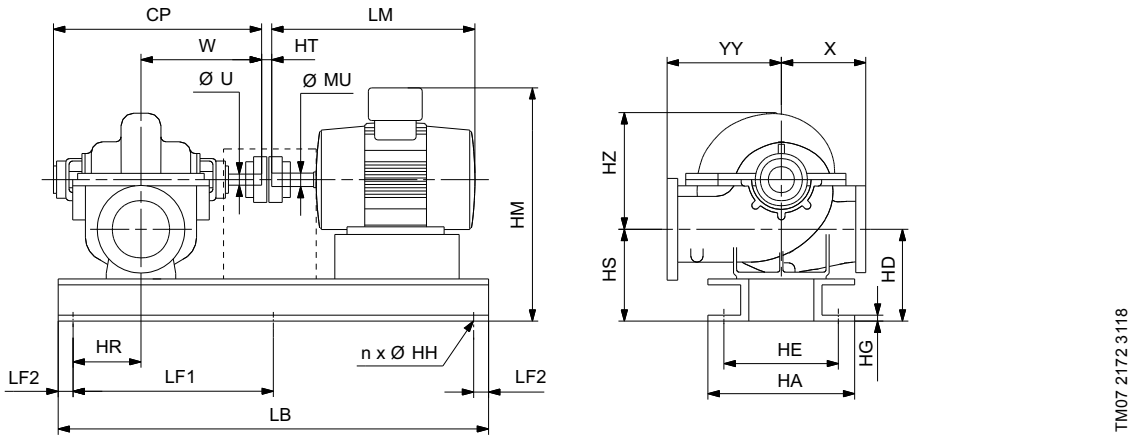
Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
160	315L	Siemens	4	1403	1403	797	79.38	508	660	446	446	785	1262	1301	80	4
200	315L	Siemens	4	1403	1403	797	79.38	508	660	446	446	785	1402	1301	80	4
250	315L	Siemens	4	1403	1403	797	79.38	508	660	426	426	785	1410	1266	85	4
315	315L	Siemens	4	1403	1403	797	79.38	508	660	426	426	785	1400	1266	85	4
355	355L	Siemens	4	1403	1403	797	79.38	508	660	446	446	785	1835	1483	95	20
400	355L	Siemens	4	1403	1403	797	79.38	508	660	446	446	785	1635	1191	95	5
500	355L	Siemens	4	1403	1403	797	79.38	508	660	446	446	785	1835	1200	95	5
160	315LB	MMG-G	4	1403	1403	797	79.38	508	660	446	446	785	1396	1314	80	4
200	315LC	MMG-G	4	1403	1403	797	79.38	508	660	446	446	785	1396	1314	80	4
250	355MB	MMG-G	4	1403	1403	797	79.38	508	660	426	426	785	1605	1411	100	4
315	355LB	MMG-G	4	1403	1403	797	79.38	508	660	426	426	785	1605	1411	100	4
355	355CB	MMG-G	4	1403	1403	797	79.38	508	660	446	446	785	1795	1431	100	4
400	315DB	MMG-G	4	1403	1403	797	79.38	508	660	446	446	785	1841	1452	95	3
425	355CB	MMG-G	4	1403	1403	797	79.38	508	660	446	446	785	1894	1548	95	3
450	355CB	MMG-G	4	1403	1403	797	79.38	508	660	446	446	785	1894	1548	95	3
475	355CB	MMG-G	4	1403	1403	797	79.38	508	660	446	446	785	1894	1548	95	3
500	355CB	MMG-G	4	1403	1403	797	79.38	508	660	446	446	785	1894	1548	95	3

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
160	315L	Siemens	4	2200	200	150	900	680	620	11	6	23	256	256	198	1436	1100	2823	5.47
200	315L	Siemens	4	2200	200	150	900	680	620	11	6	23	256	256	198	1436	1300	3023	5.47
250	315L	Siemens	4	2310	200	150	955	720	663	10.5	6	23	256	256	360	1436	1300	3048	5.64
315	315L	Siemens	4	2310	200	150	955	720	663	10.5	6	23	256	256	350	1436	1500	3248	5.62
355	355L	Siemens	4	2570	200	150	1085	815	760	11	6	23	256	256	415	1436	1900	3718	7.45
400	355L	Siemens	4	2570	200	150	1085	815	760	11	6	23	256	256	215	1436	2000	3818	5.90
500	355L	Siemens	4	2570	200	150	1085	815	760	11	6	23	256	256	417	1436	2200	4018	6.27
160	315LB	MMG-G	4	2300	250	100	900	680	620	11	6	23	256	256	247	1436	1070	2506	7.861
200	315LC	MMG-G	4	2300	250	100	900	680	620	11	6	23	256	256	247	1436	1260	2696	7.861
250	355MB	MMG-G	4	2510	200	150	1055	820	762.5	10.5	6	23	256	256	246	1436	1820	3256	8.870
315	355LB	MMG-G	4	2510	200	150	1055	820	762.5	10.5	6	23	256	256	246	1436	2150	3586	8.870
355	355CB	MMG-G	4	2850	340	10	1085	815	760	11	6	23	256	256	96	1436	2300	3736	9.502
400	315DB	MMG-G	4	2650	200	148	1125	705	637	11	6	18	258	258	339	1436	2180	3616	9.734
425	355CB	MMG-G	4	2700	200	148	1150	825	757	11	6	18	258	258	342	1436	2450	3886	10.372
450	355CB	MMG-G	4	2700	200	148	1150	825	757	11	6	18	258	258	342	1436	2610	4046	10.372
475	355CB	MMG-G	4	2700	200	148	1150	825	757	11	6	18	258	258	342	1436	2610	4046	10.372
500	355CB	MMG-G	4	2700	200	148	1150	825	757	11	6	18	258	258	342	1436	2700	4136	10.372

LS 350-250-630



LS 350-250-630 dimensional sketches

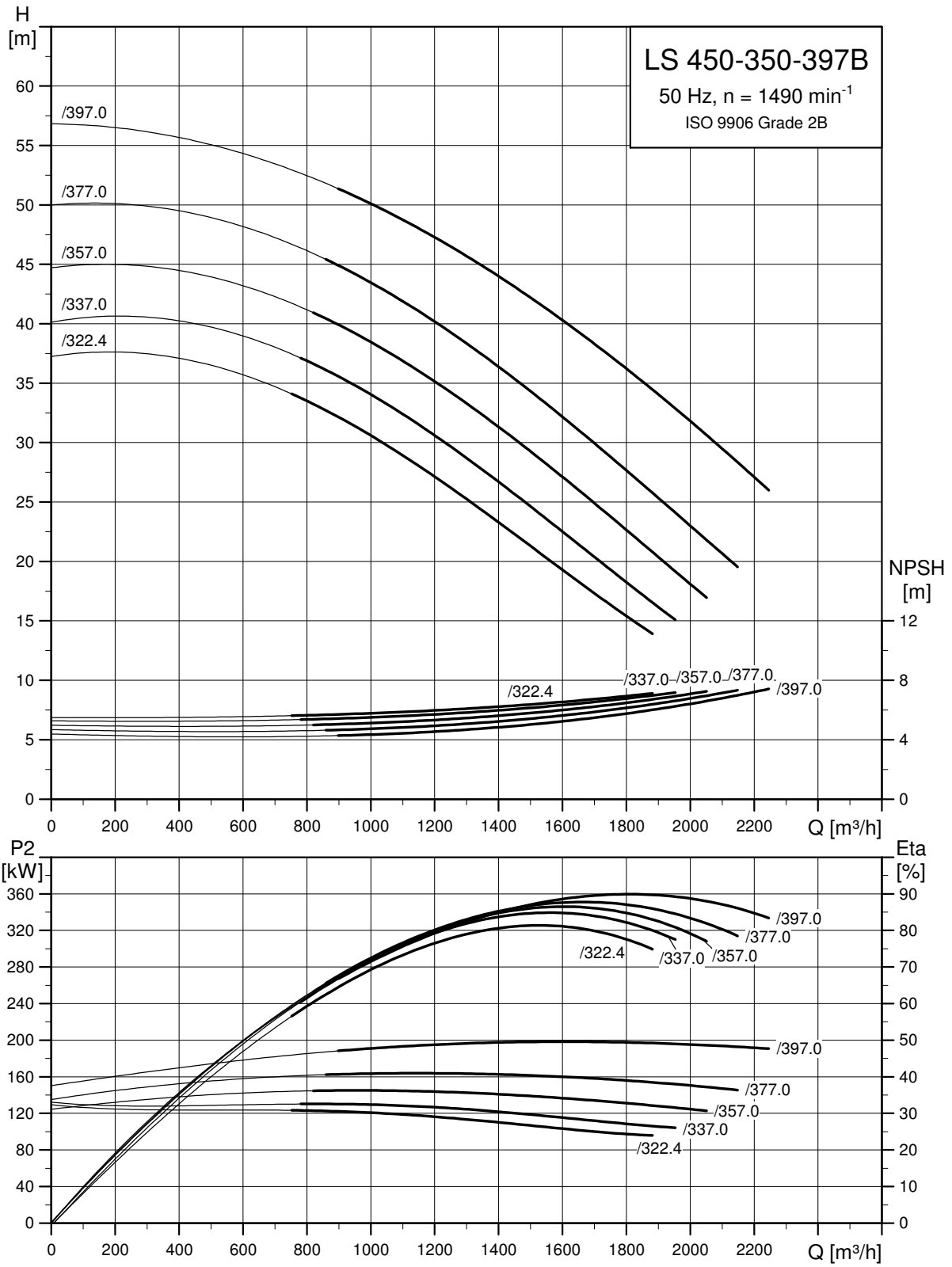


LS 350-250-630 dimensions

Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
				CP											
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
250	315L	Siemens	4	1377	1377	799	79.38	610	711	505	505	820	1410	1335	85	4
315	315L	Siemens	4	1377	1377	799	79.38	610	711	505	505	820	1400	1335	85	4
355	355L	Siemens	4	1377	1377	799	79.38	610	711	485	485	820	1835	1512	95	4
400	355L	Siemens	4	1377	1377	799	79.38	610	711	485	485	820	1635	1171	95	5
500	355L	Siemens	4	1377	1377	799	79.38	610	711	485	485	820	1835	1180	95	5
560	355L	Siemens	4	1377	1377	799	79.38	610	711	505	505	820	1835	1265	110	5
630	355L	Siemens	4	1377	1377	799	79.38	610	711	505	505	820	1835	865	110	5
250	355MB	MMG-G	4	1377	1377	799	79.38	610	711	505	505	820	1605	1480	100	4
315	355LB	MMG-G	4	1377	1377	799	79.38	610	711	505	505	820	1605	1480	100	4
355	355CB	MMG-G	4	1377	1377	799	79.38	610	711	485	485	820	1795	1460	100	4
400	315DB	MMG-G	4	1377	1377	799	79.38	610	711	505	505	820	1841	1501	95	3
425	355CB	MMG-G	4	1377	1377	799	79.38	610	711	485	485	820	1894	1577	95	4
450	355CB	MMG-G	4	1377	1377	799	79.38	610	711	485	485	820	1894	1577	95	4
475	355CB	MMG-G	4	1377	1377	799	79.38	610	711	485	485	820	1894	1577	95	4
500	355CB	MMG-G	4	1377	1377	799	79.38	610	711	485	485	820	1894	1577	95	4
530	355CB	MMG-G	4	1377	1377	799	79.38	610	711	485	485	820	1894	1577	95	4
560	400CB	MMG-G	4	1377	1377	799	79.38	610	711	505	505	820	2080	1609	110	6
600	400CB	MMG-G	4	1377	1377	799	79.38	610	711	505	505	820	2080	1609	110	6

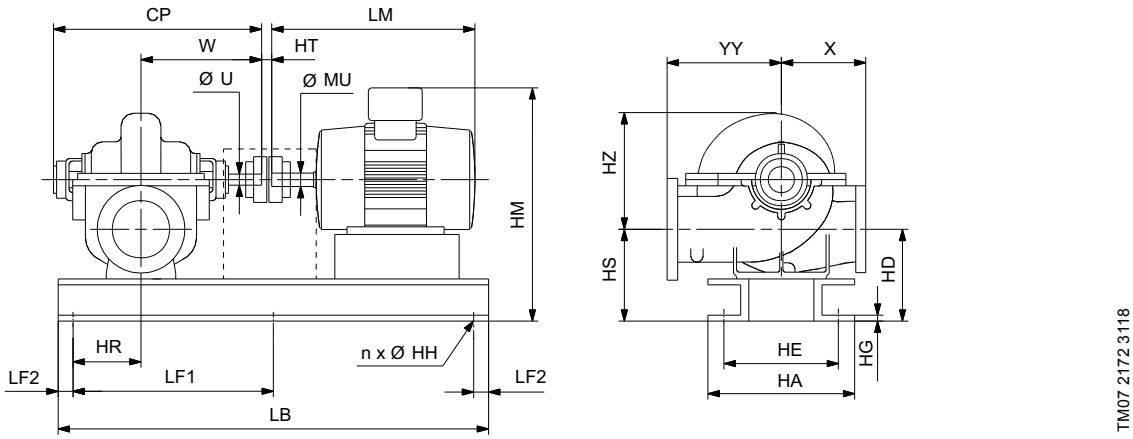
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
250	315L	Siemens	4	2310	200	150	955	724	656	11	6	23	228	228	252	1905	1300	3522	6.53
315	315L	Siemens	4	2310	200	150	955	724	656	11	6	23	228	228	242	1905	1500	3722	6.50
355	355L	Siemens	4	2570	200	150	1085	835	778	10.5	6	23	228	228	417	1905	1900	4149	8.37
400	355L	Siemens	4	2570	200	150	1085	835	778	10.5	6	23	228	228	217	1905	2000	4249	6.87
500	355L	Siemens	4	2570	200	150	1085	835	778	10.5	6	23	228	228	419	1905	2200	4449	7.30
560	355L	Siemens	4	2710	200	150	1155	906	844	11	6	23	228	228	279	1905	2800	5106	7.41
630	355L	Siemens	4	2710	200	150	1155	906	844	11	6	23	228	228	279	1905	3000	5306	7.41
250	355MB	MMG-G	4	2550	320	30	955	790	740	11	6	23	228	228	208	1905	1820	3725	10.065
315	355LB	MMG-G	4	2550	320	30	955	790	740	11	6	23	228	228	208	1905	2150	4055	10.065
355	355CB	MMG-G	4	2770	200	150	1185	835	777.5	10.5	6	23	228	228	178	1905	2300	4205	10.566
400	315DB	MMG-G	4	2650	200	148	1125	747	679	10.5	6	18	230	230	341	1905	2180	4085	10.934
425	355CB	MMG-G	4	2770	200	150	1185	835	777.5	10.5	6	23	228	228	277	1905	2450	4355	11.531
450	355CB	MMG-G	4	2770	200	150	1185	835	777.5	10.5	6	23	228	228	277	1905	2610	4515	11.531
475	355CB	MMG-G	4	2770	200	150	1185	835	777.5	10.5	6	23	228	228	277	1905	2610	4515	11.531
500	355CB	MMG-G	4	2770	200	150	1185	835	777.5	10.5	6	23	228	228	277	1905	2700	4605	11.531
530	355CB	MMG-G	4	2770	200	150	1185	835	777.5	10.5	6	23	228	228	277	1905	2800	4705	11.531
560	400CB	MMG-G	4	2890	200	148	1245	865	797	10.5	6	18	230	230	343	1905	3260	5165	12.352
600	400CB	MMG-G	4	2890	200	148	1245	865	797	10.5	6	18	230	230	343	1905	3430	5335	12.352

LS 450-350-397



TM07 2687 4018

LS 450-350-397 dimensional sketches



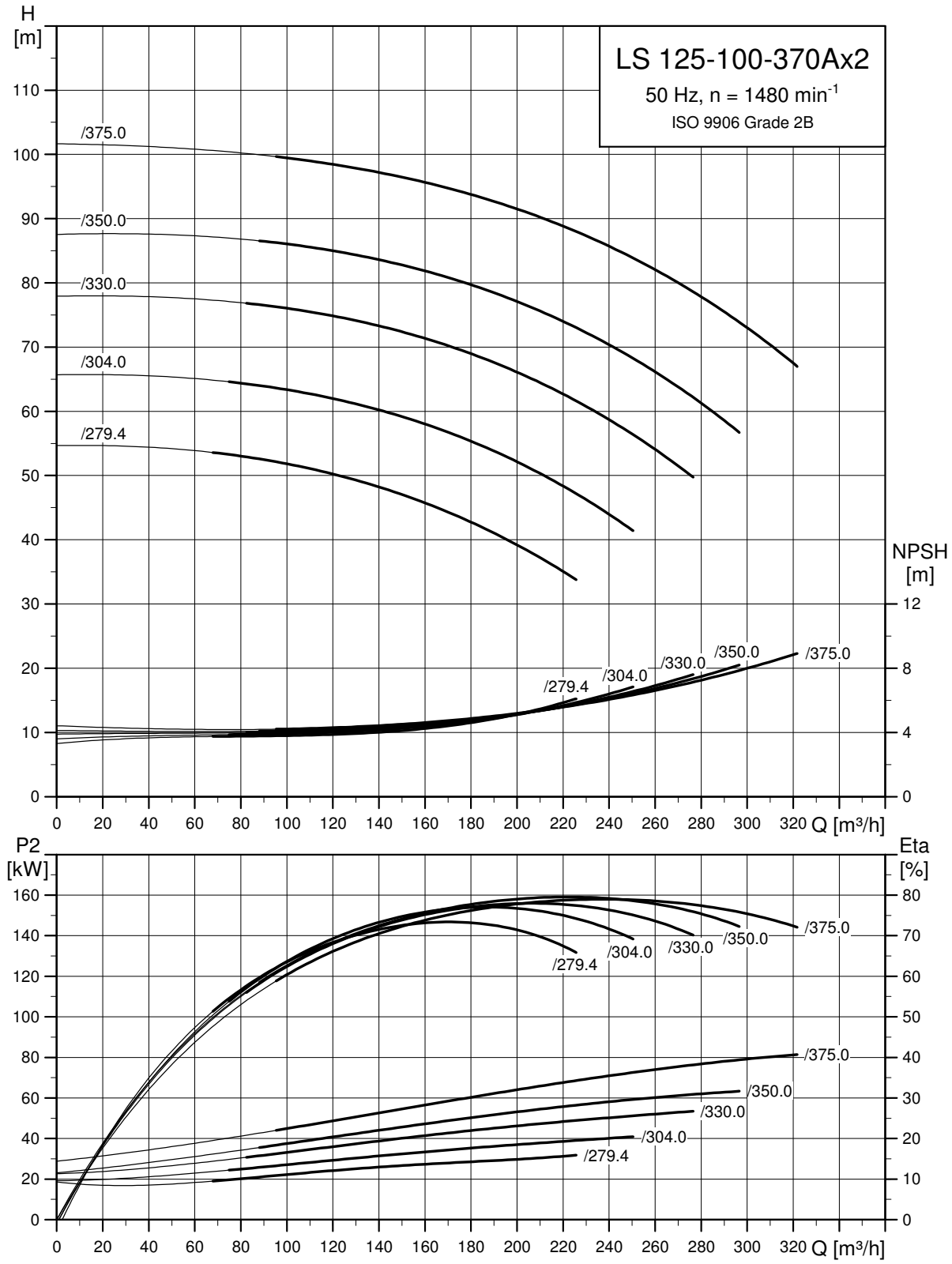
TM07 2172 3118

LS 450-350-397 dimensions

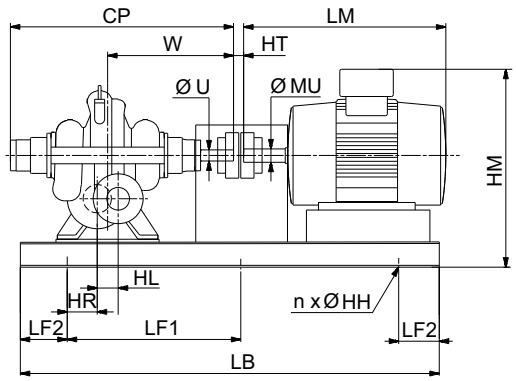
Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
110	315S	Siemens	4	1400	1400	773.5	63.5	545	625	485	485	730	1102	1385	80	4
132	315MA	Siemens	4	1400	1400	773.5	63.5	545	625	485	485	730	1262	1385	80	4
160	315L	Siemens	4	1400	1400	773.5	63.5	545	625	485	485	730	1262	1385	80	4
200	315L	Siemens	4	1400	1400	773.5	63.5	545	625	485	485	730	1402	1385	80	4
250	315L	Siemens	4	1400	1400	773.5	63.5	545	625	485	485	730	1410	1370	85	4
110	315SB	MMG-G	4	1400	1400	773.5	63.5	545	625	485	485	730	1246	1378	80	4
132	315MB	MMG-G	4	1400	1400	773.5	63.5	545	625	485	485	730	1296	1378	80	4
160	315LB	MMG-G	4	1400	1400	773.5	63.5	545	625	485	485	730	1396	1378	80	4
200	315LC	MMG-G	4	1400	1400	773.5	63.5	545	625	485	485	730	1396	1378	80	4
250	355MB	MMG-G	4	1400	1400	773.5	63.5	545	625	485	485	730	1605	1495	100	4

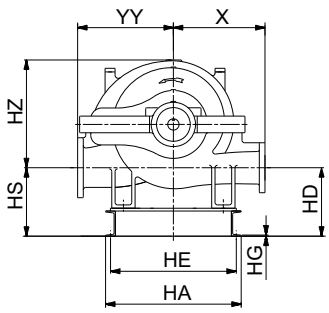
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
110	315S	Siemens	4	2330	200	230	1016	805	755	11	6	23	146	146	-	1905	2000	4246	6.06
132	315MA	Siemens	4	2330	200	230	1016	805	755	11	6	23	146	146	74	1905	2200	4446	6.22
160	315L	Siemens	4	2330	200	230	1016	805	755	11	6	23	146	146	74	1905	2800	5046	6.51
200	315L	Siemens	4	2330	200	230	1016	805	755	11	6	23	146	146	74	1905	3000	5246	6.51
250	315L	Siemens	4	2330	200	230	1016	805	755	11	6	23	146	146	74	1460	1270	2730	5.60
110	315SB	MMG-G	4	2330	200	228	965	805	754.5	11	6	23	199	199	121	1905	920	2825	7.727
132	315MB	MMG-G	4	2330	200	228	965	805	754.5	11	6	23	199	199	171	1905	1000	2905	7.865
160	315LB	MMG-G	4	2330	200	228	965	805	754.5	11	6	23	199	199	271	1905	1070	2975	8.141
200	315LC	MMG-G	4	2330	200	228	965	805	754.5	11	6	23	199	199	271	1905	1260	3165	8.141
250	355MB	MMG-G	4	2510	200	230	1055	805	749	11	6	23	197	197	303	1460	1820	3280	9.265

LS 125-100-370x2



LS 125-100-370x2 dimensional sketches





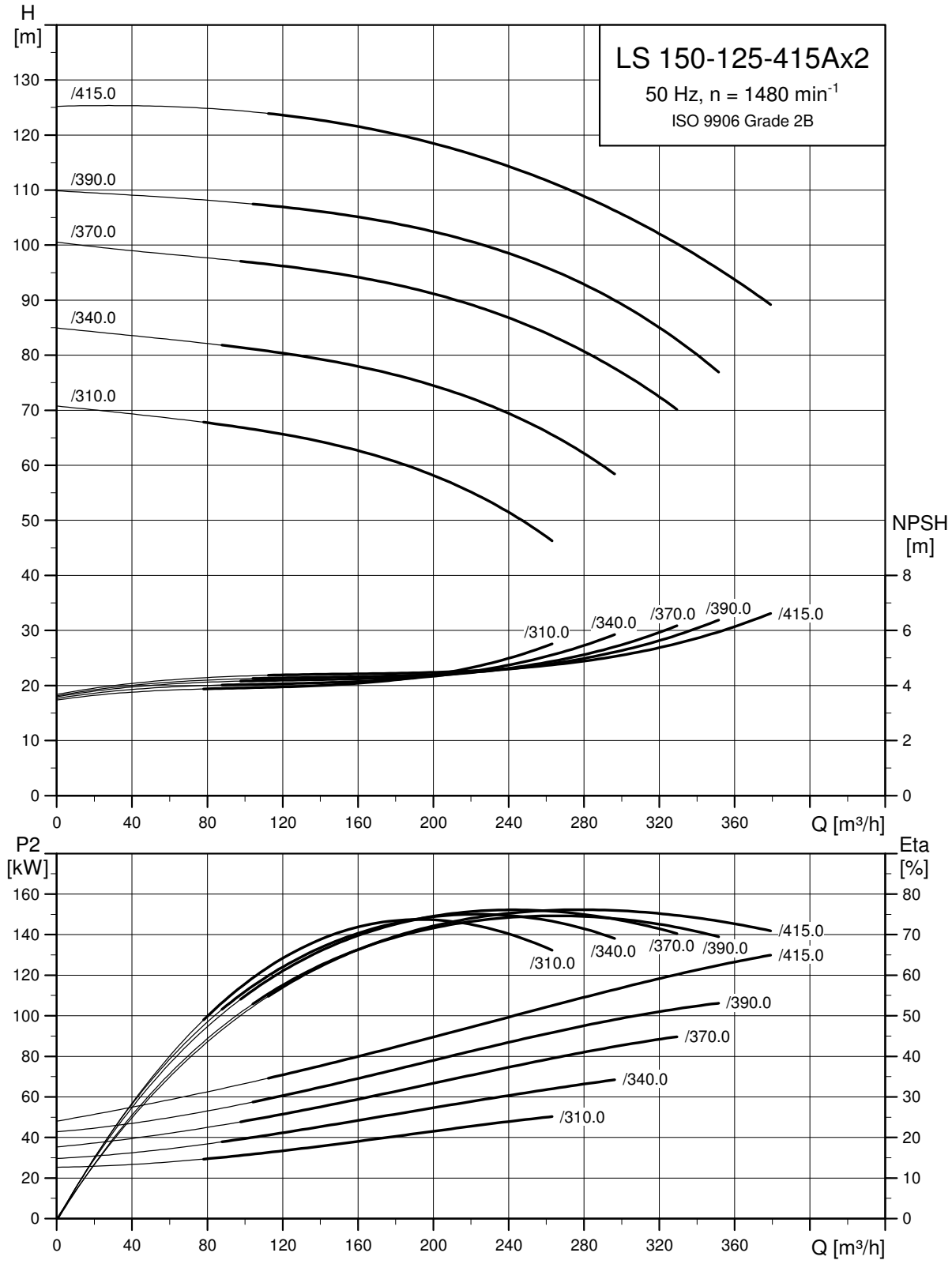
TM07 2170 3118

LS 125-100-370x2 dimensions

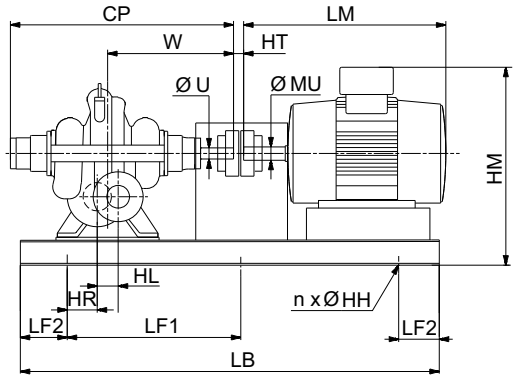
Motor				Pump dimensions [mm]							Motor dimensions [mm]			Distance between shaft ends [mm]	Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	CP	W	ØU	X	YY	HD/HS	HZ	LM	HM	ØMU	HT	
37	225SC	MMG-G	4	980	540	44.45	340	350	280	565	816	848	60	4	2.329
45	225MC	MMG-G	4	980	540	44.45	340	350	280	565	841	848	60	4	2.357
55	250MC	MMG-G	4	980	540	44.45	340	350	280	565	921	890	65	4	2.526
75	280SB	MMG-G	4	980	540	44.45	340	350	280	565	1037.5	923	75	12	3.070
90	280MB	MMG-G	4	980	540	44.45	340	350	280	565	1087.5	923	75	12	3.141
110	315SB	MMG-G	4	980	540	44.45	340	350	280	565	1246	1018	80	16	3.689

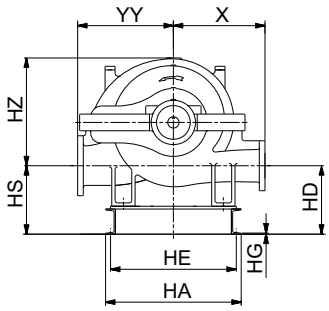
Motor				Base frame dimensions [mm]									Overhang [mm]		Net weights [kg]		
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	HL	LF1	HA	HE	HG	n	ØHH	Pump	Motor	Pump	Motor	Total
37	225SC	MMG-G	4	1610	200	36.5	145	605	590	548	9	6	23	204	-	350	350	700
45	225MC	MMG-G	4	1634	200	36.5	145	617	590	548	9	6	23	204	-	350	360	710
55	250SC	MMG-G	4	1704	200	36.5	145	652	590	548	9	6	23	204	-	350	480	830
75	250MC	MMG-G	4	1800	200	36.5	145	700	590	548	9	6	23	204	26	350	621	971
90	280SB	MMG-G	4	1800	200	36.5	145	700	590	548	9	6	23	204	76	350	706	1056
110	280MB	MMG-G	4	2041.5	200	36.5	145	820.75	715	673	9	6	23	204	-	350	920	1270

LS 150-125-415x2



LS 150-125-415x2 dimensional sketches





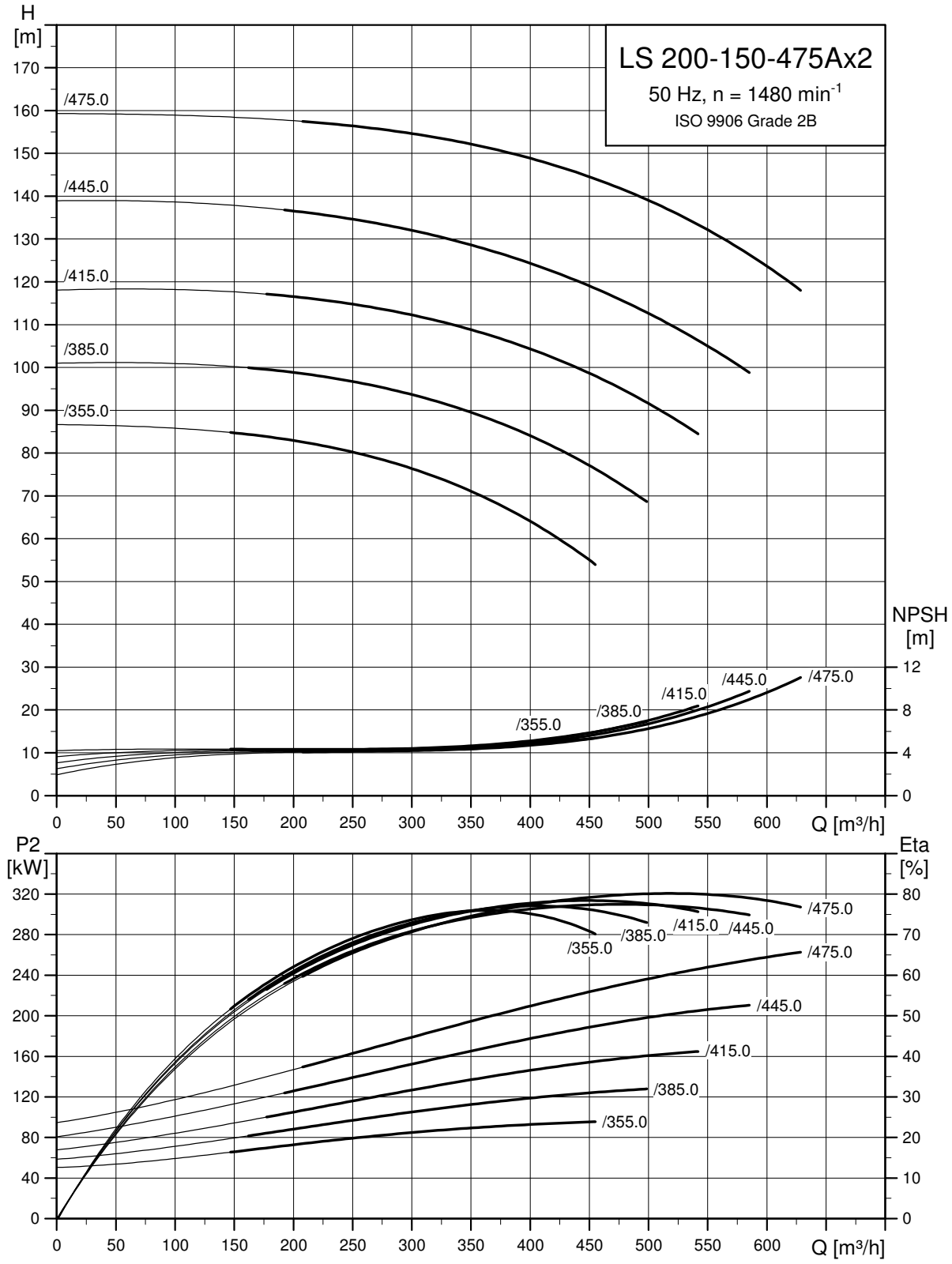
TM07 2170 3118

LS 150-125-415x2 dimensions

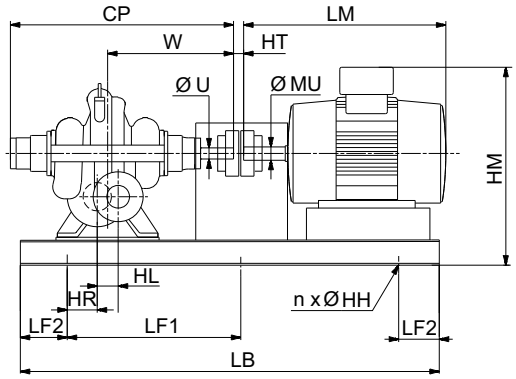
Motor				Pump dimensions [mm]							Motor dimensions [mm]			Distance between shaft ends [mm]	Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	CP	W	ØU	X	YY	HD/HS	HZ	LM	HM	ØMU	HT	
55	250MC	MMG-G	4	1059	575	44.45	365	375	290	632	921	940	65	4	2.863
75	280SB	MMG-G	4	1059	575	44.45	365	375	290	632	1037.5	973	75	9	3.455
90	280MB	MMG-G	4	1059	575	44.45	365	375	290	632	1087.5	973	75	9	3.532
110	315SB	MMG-G	4	1059	575	44.45	365	375	290	632	1246	1068	80	9	4.017
132	315MB	MMG-G	4	1059	575	44.45	365	375	290	632	1296	1068	80	9	4.098
160	315LB	MMG-G	4	1059	575	44.45	365	375	290	632	1396	1068	80	9	4.261

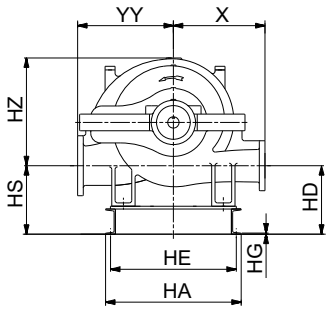
Motor				Base frame dimensions [mm]										Overhang [mm]		Net weights [kg]		
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	HL	LF1	HA	HE	HG	n	ØHH	Pump	Motor	Pump	Motor	Total
55	250MC	MMG-G	4	1774	200	85	140	687	590	548	9	6	23	199	11	530	480	1010
75	280SB	MMG-G	4	1876	200	85	140	738	650	608	9	6	23	199	31	530	621	1151
90	280MB	MMG-G	4	1876	200	85	140	738	650	608	9	6	23	199	81	530	706	1236
110	315SB	MMG-G	4	2095	200	85	140	847.5	730	688	9	6	23	199	20	530	920	1450
132	315MB	MMG-G	4	2095	200	85	140	847.5	730	688	9	6	23	199	70	530	1000	1530
160	315LB	MMG-G	4	2095	200	85	140	847.5	730	688	9	6	23	199	170	530	1070	1600

LS 200-150-475x2



LS 200-150-475x2 dimensional sketches





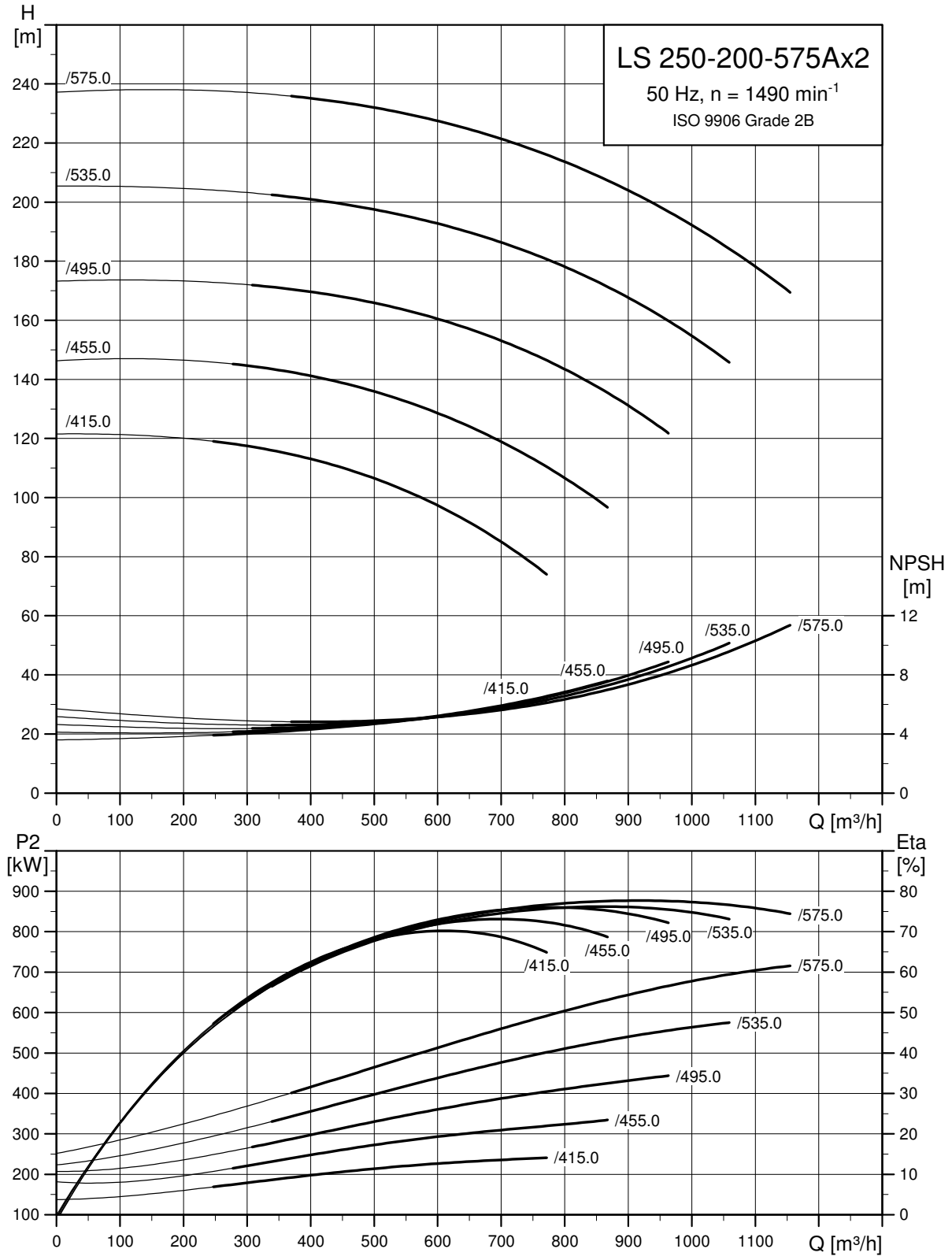
TM07 2170 3118

LS 200-150-475x2 dimensions

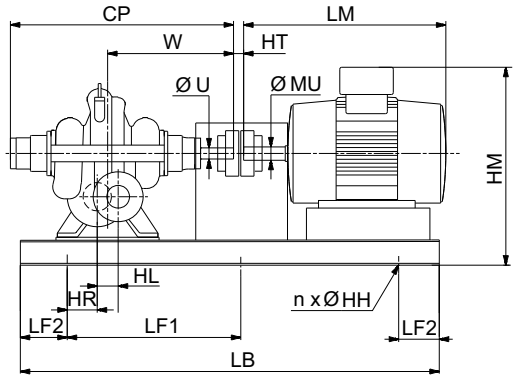
Motor				Pump dimensions [mm]							Motor dimensions [mm]			Distance between shaft ends [mm]	Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	CP	W	ØU	X	YY	HD/HS	HZ	LM	HM	ØMU	HT	
132	315MB	MMG-G	4	1142	615	57.15	550	575	400	685	1296	1188	80	14	6.257
160	315LB	MMG-G	4	1142	615	57.15	550	575	400	685	1396	1188	80	14	6.497
200	315LC	MMG-G	4	1142	615	57.15	550	575	400	685	1396	1188	80	14	6.497
250	355MB	MMG-G	4	1142	615	57.15	550	575	400	685	1605	1305	100	43	7.688
315	355LB	MMG-G	4	1142	615	57.15	550	575	400	685	1605	1305	100	43	7.688

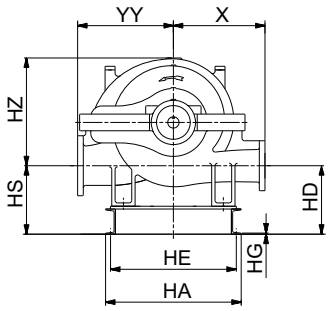
Motor				Base frame dimensions [mm]										Overhang [mm]		Net weights [kg]		
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	HL	LF1	HA	HE	HG	n	ØHH	Pump	Motor	Pump	Motor	Total
132	315MB	MMG-G	4	2178	200	130	130	889	830	786	9.5	6	23	197	77	960	1000	1960
160	315LB	MMG-G	4	2178	200	130	130	889	830	786	9.5	6	23	197	177	960	1070	2030
200	315LC	MMG-G	4	2178	200	130	130	889	830	786	9.5	6	23	197	177	960	1260	2220
250	355MB	MMG-G	4	2642	200	130	130	1121	830	786	9.5	6	23	197	-	960	1820	2780
315	355LB	MMG-G	4	2642	200	130	130	1121	830	786	9.5	6	23	197	-	960	2150	3110

LS 250-200-575x2



LS 250-200-575x2 dimensional sketches





TM07 2170 3118

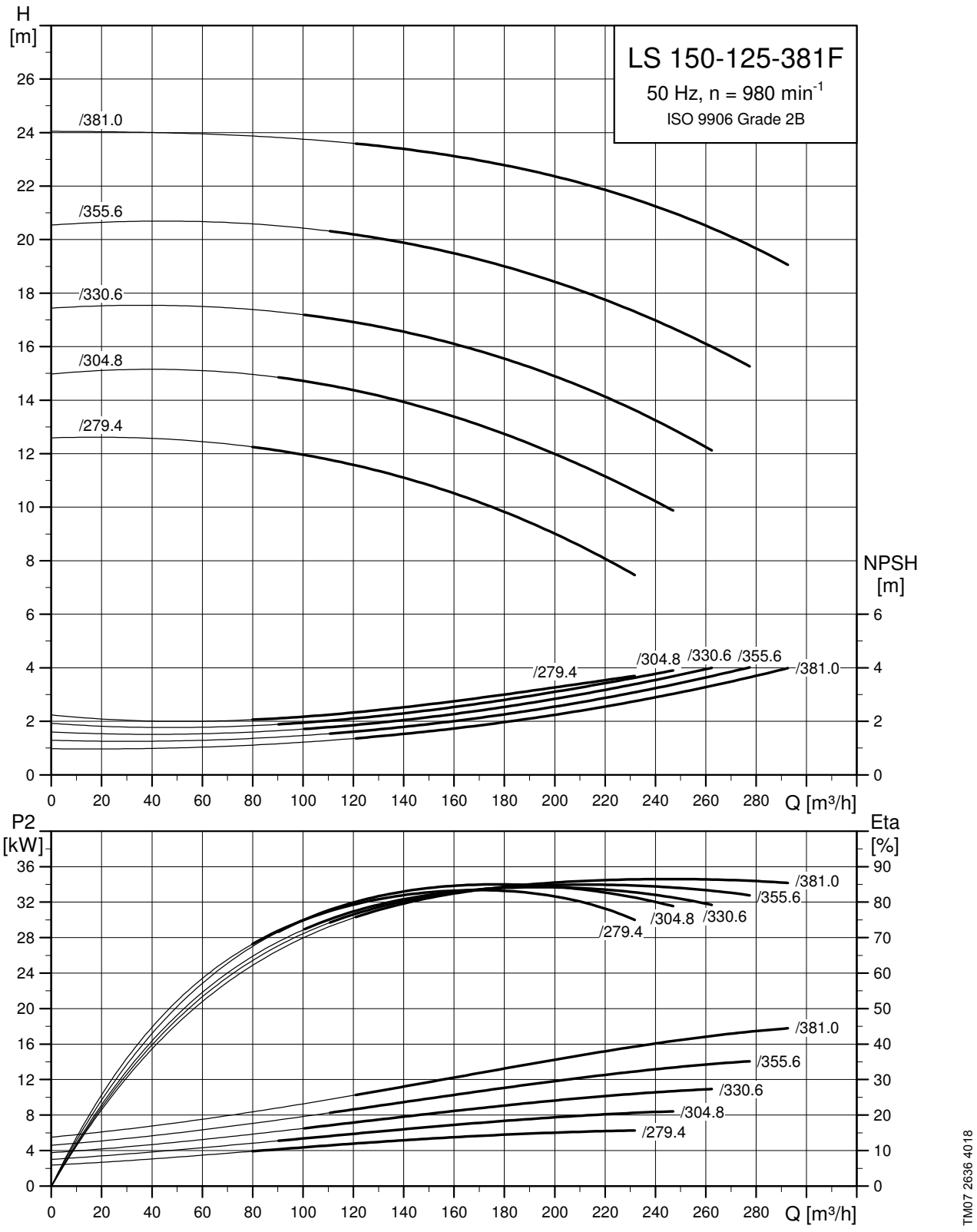
LS 250-200-575x2 dimensions

Motor				Pump dimensions [mm]							Motor dimensions [mm]			Distance between shaft ends [mm]	Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	CP	W	ØU	X	YY	HD/HS	HZ	LM	HM	ØMU	HT	
250	355MB	MMG-G	4	1496	800	79.38	600	750	490	850	1605	1445	100	19	10.732
315	355LB	MMG-G	4	1496	800	79.38	600	750	490	850	1605	1445	100	19	10.732
355	355CB	MMG-G	4	1496	800	79.38	600	750	490	850	1795	1445	100	19	11.138
400	315DBB	MMG-G	4	1496	800	79.38	600	750	490	850	1841	1466	95	5	11.362
425	355CB	MMG-G	4	1496	800	79.38	600	750	490	850	1894	1562	95	10	12.115
450	355CB	MMG-G	4	1496	800	79.38	600	750	490	850	1894	1562	95	10	12.115
475	355CB	MMG-G	4	1496	800	79.38	600	750	490	850	1894	1562	95	10	12.115
500	355CB	MMG-G	4	1496	800	79.38	600	750	490	850	1894	1562	95	10	12.115
530	355CB	MMG-G	4	1496	800	79.38	600	750	490	850	1894	1562	95	10	12.115
560	400CB	MMG-G	4	1496	800	79.38	600	750	490	850	2080	1574	110	19	12.855
600	400CB	MMG-G	4	1496	800	79.38	600	750	490	850	2080	1574	110	19	12.855

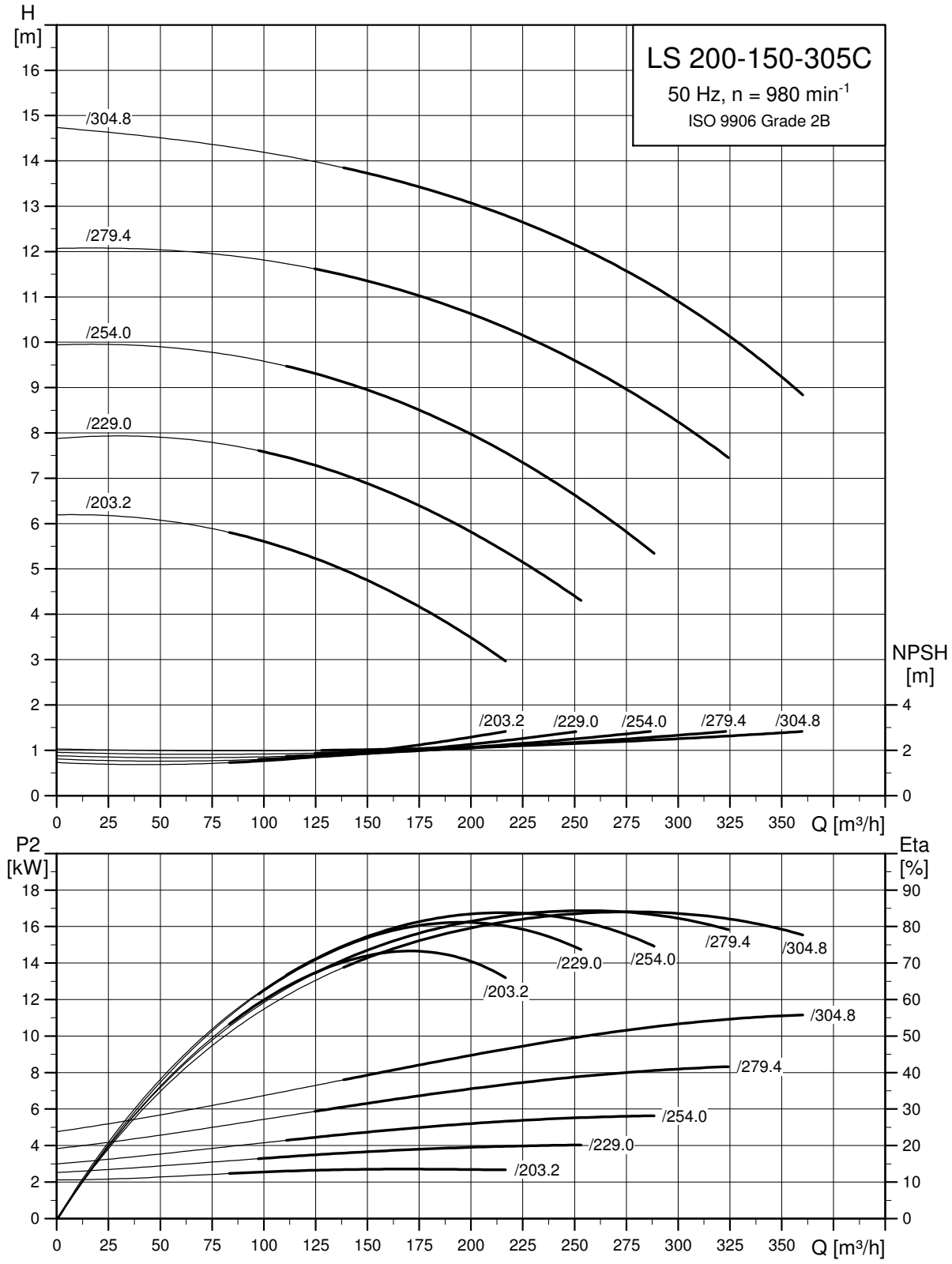
Motor				Base frame dimensions [mm]									Overhang [mm]		Net weights [kg]		
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	HL	LF1	HA	HE	HG	n	ØHH	Pump	Motor	Pump	Motor	Total
250	355MB	MMG-G	4	2878	200	190	150	1239	1210	1158	10.5	6	23	306	-	1452	1820	3272
315	355LB	MMG-G	4	2878	200	190	150	1239	1210	1158	10.5	6	23	306	-	1452	2150	3602
355	355CB	MMG-G	4	2878	200	190	150	1239	1210	1158	10.5	6	23	306	126	1452	2300	3752
400	315DBB	MMG-G	4	2772	200	190	150	1186	1210	1158	10.5	6	23	306	264	1452	2180	3632
425	355CB	MMG-G	4	2826	200	190	150	1239	1210	1158	10.5	6	23	306	268	1452	2450	3902
450	355CB	MMG-G	4	2826	200	190	150	1239	1210	1158	10.5	6	23	306	268	1452	2610	4062
475	355CB	MMG-G	4	2826	200	190	150	1239	1210	1158	10.5	6	23	306	268	1452	2610	4062
500	355CB	MMG-G	4	2826	200	190	150	1239	1210	1158	10.5	6	23	306	268	1452	2700	4152
530	355CB	MMG-G	4	2826	200	190	150	1239	1210	1158	10.5	6	23	306	268	1452	2800	4252
560	400CB	MMG-G	4	3016	200	190	150	1308	1210	1158	10.5	6	23	306	273	1452	3260	4712
600	400CB	MMG-G	4	3016	200	190	150	1308	1210	1158	10.5	6	23	306	273	1452	3430	4882

6-pole

LS 150-125-381

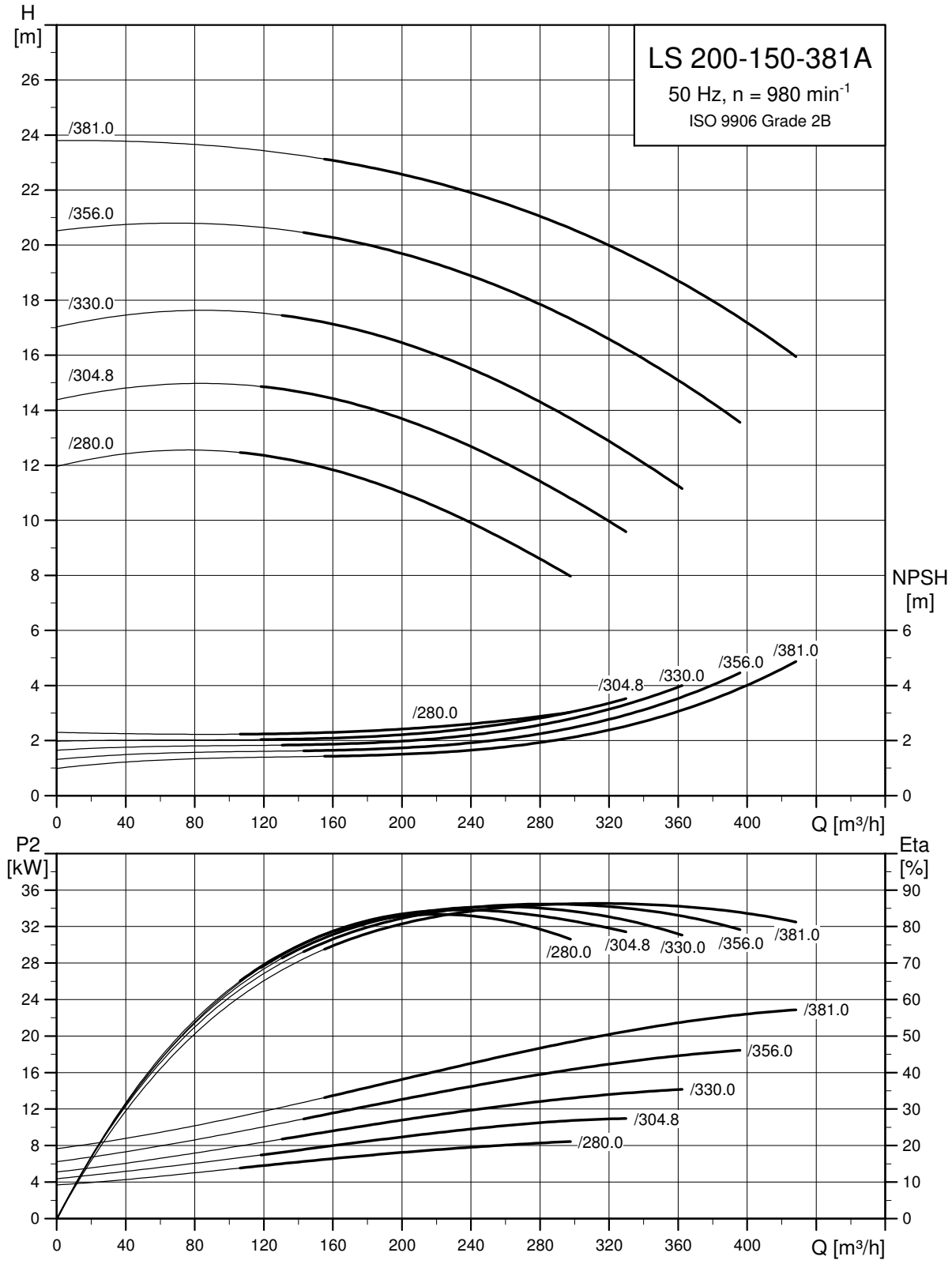


LS 200-150-305

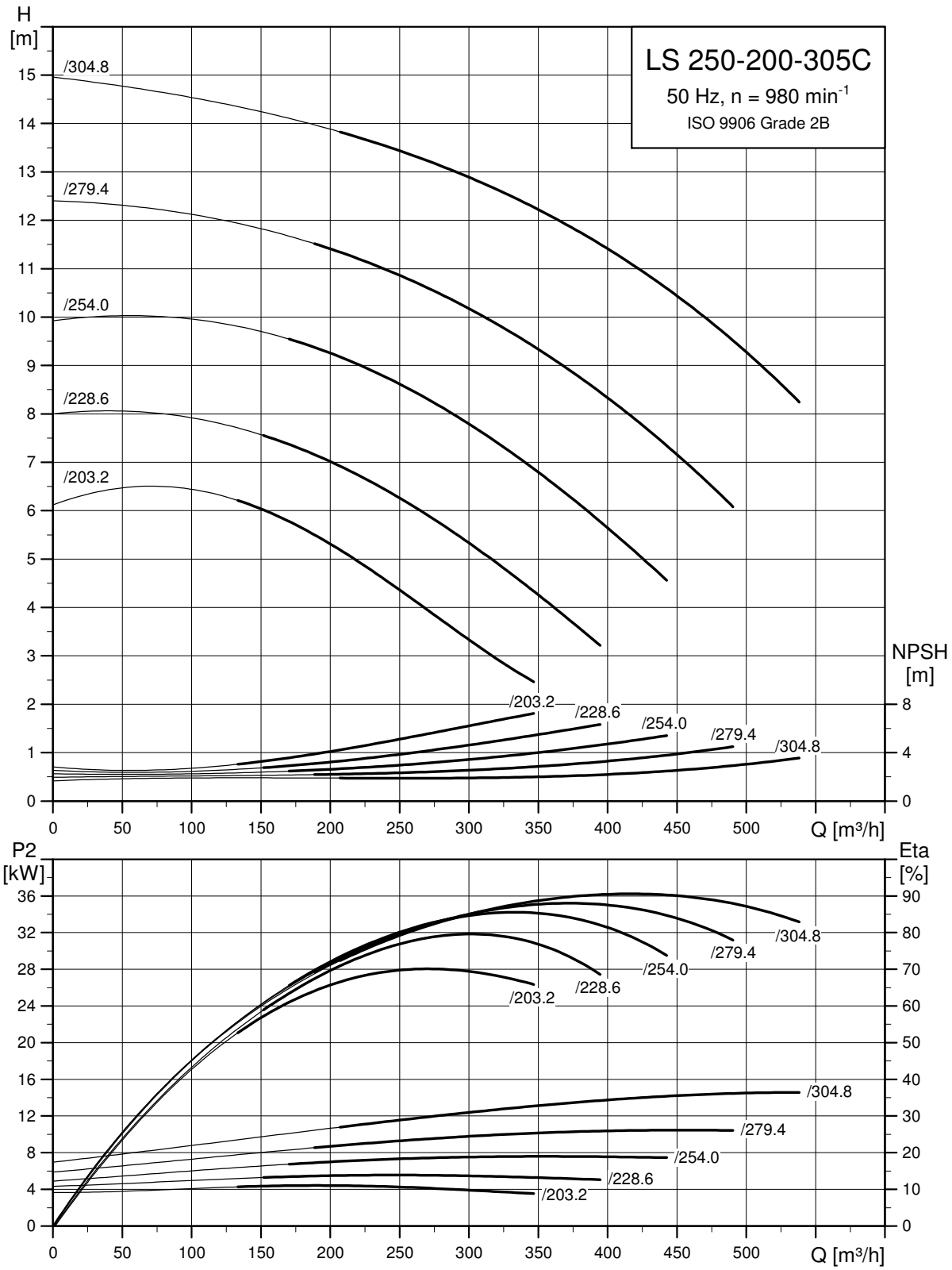


TM07 2638 4018

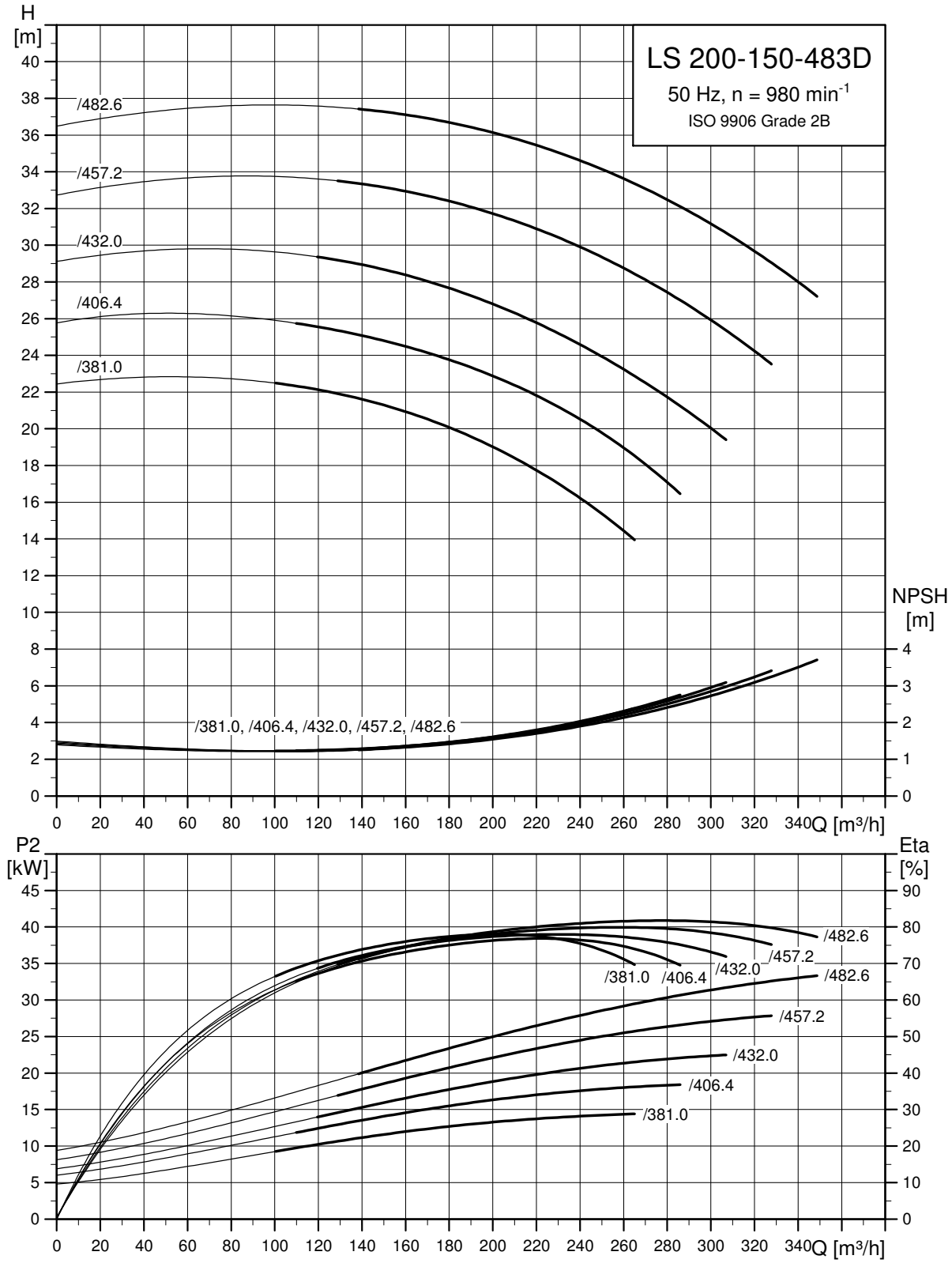
LS 200-150-381



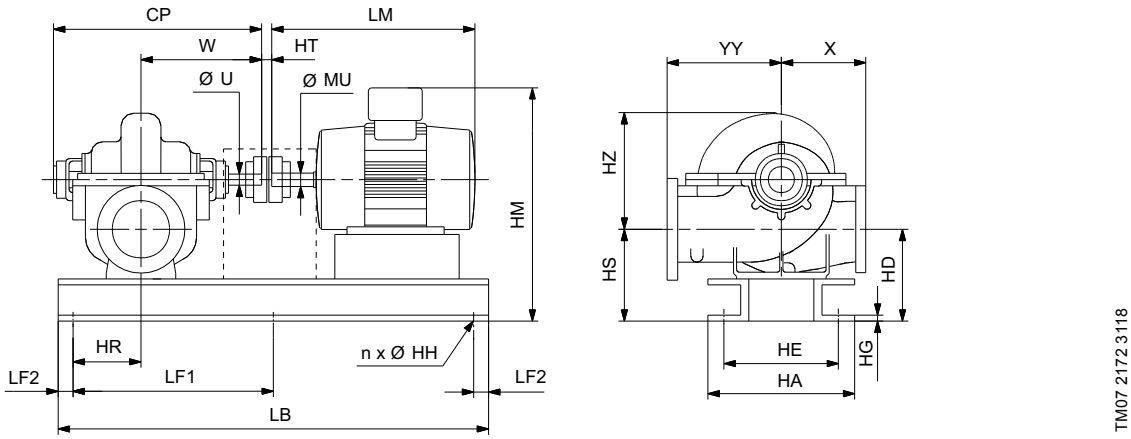
LS 250-200-305



LS 200-150-483



LS 200-150-483 dimensional sketches



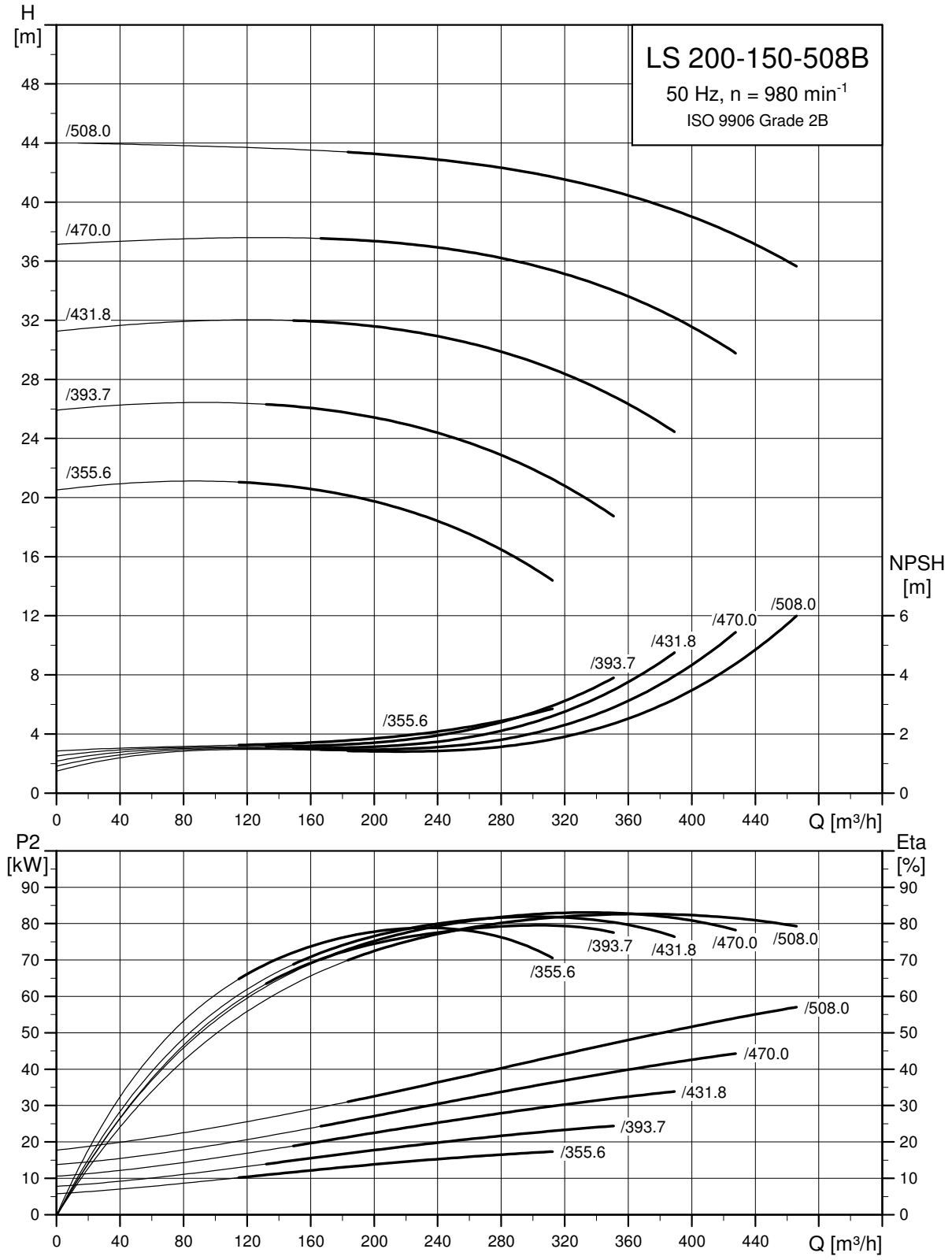
TM07 2172 3118

LS 200-150-483 dimensions

Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
15	180L	Siemens	6	888	888	489	44.45	432	432	311	311	615	712	838	48	4
18.5	200L	Siemens	6	888	888	489	44.45	432	432	311	311	615	769	947	55	4
22	200L	Siemens	6	888	888	489	44.45	432	432	311	311	615	769	947	55	4
30	225M	Siemens	6	888	888	489	44.45	432	432	311	311	615	849	910	60	4
37	250M	Siemens	6	888	888	489	44.45	432	432	311	311	615	887	982	65	4
45	280S	Siemens	6	888	888	489	44.45	432	432	311	311	615	960	1005	75	13
15	180L	MMG-G	6	888	888	489	44.45	432	432	311	311	615	710	839	48	4
18.5	200LA	MMG-G	6	888	888	489	44.45	432	432	311	311	615	770	904	55	4
22	200LB	MMG-G	6	888	888	489	44.45	432	432	311	311	615	770	904	55	4
30	25MC	MMG-G	6	888	888	489	44.45	432	432	311	311	615	841	930	60	4
37	250MC	MMG-G	6	888	888	489	44.45	432	432	311	311	615	921	972	65	4
45	280SB	MMG-G	6	888	888	489	44.45	432	432	311	311	615	1037.5	1005	75	13

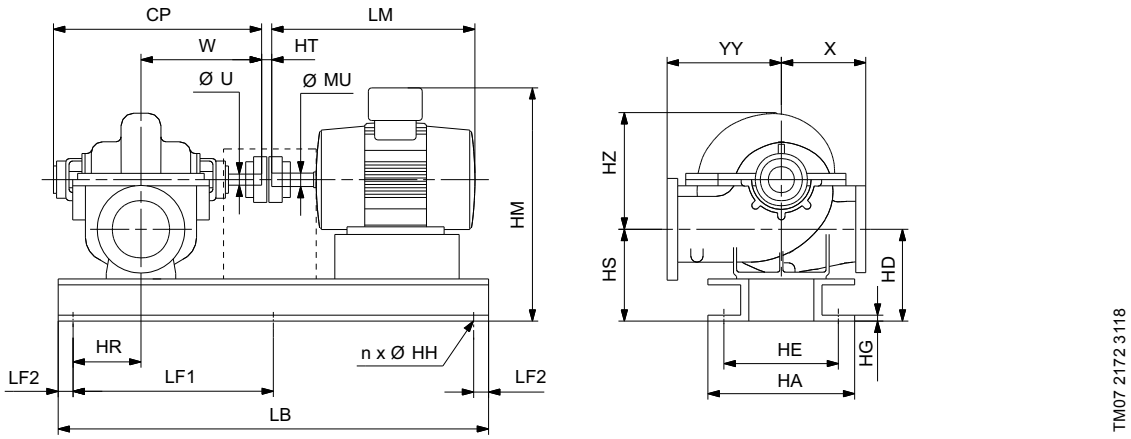
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
15	180L	Siemens	6	1450	200	85	525	390	346	8.5	6	18	114	114	26	534	144	777	1.70
18.5	200L	Siemens	6	1500	200	78	550	440	378	11	6	23	121	121	-	534	186	826	1.85
22	200L	Siemens	6	1500	200	78	550	440	378	11	6	23	121	121	-	534	217	857	1.85
30	225M	Siemens	6	1513	200	82	557	495	452	9	6	23	117	117	110	534	325	973	1.92
37	250M	Siemens	6	1580	200	80	590	545	502	9	6	23	119	119	80	534	405	1064	2.09
45	280S	Siemens	6	1673	200	80	637	605	560	9	6	23	119	119	69	534	520	1194	2.22
15	180L	MMG-G	6	1450	200	85	525	390	346	8.5	6	18	114	114	38	534	205	739	2.602
18.5	200LA	MMG-G	6	1500	200	78	550	440	378	11	6	23	122	122	40	534	270	804	2.691
22	200LB	MMG-G	6	1500	200	78	550	440	378	11	6	23	122	122	40	534	290	824	2.691
30	25MC	MMG-G	6	1513	200	82	557	495	452	9	6	23	117	117	103	534	385	919	2.805
37	250MC	MMG-G	6	1580	200	80	590	545	502	9	6	23	119	119	114	534	460	994	3.020
45	280SB	MMG-G	6	1673	200	80	637	605	560	9	6	23	119	119	147	534	561	1095	3.294

LS 200-150-508



TM07 2644 4018

LS 200-150-508 dimensional sketches

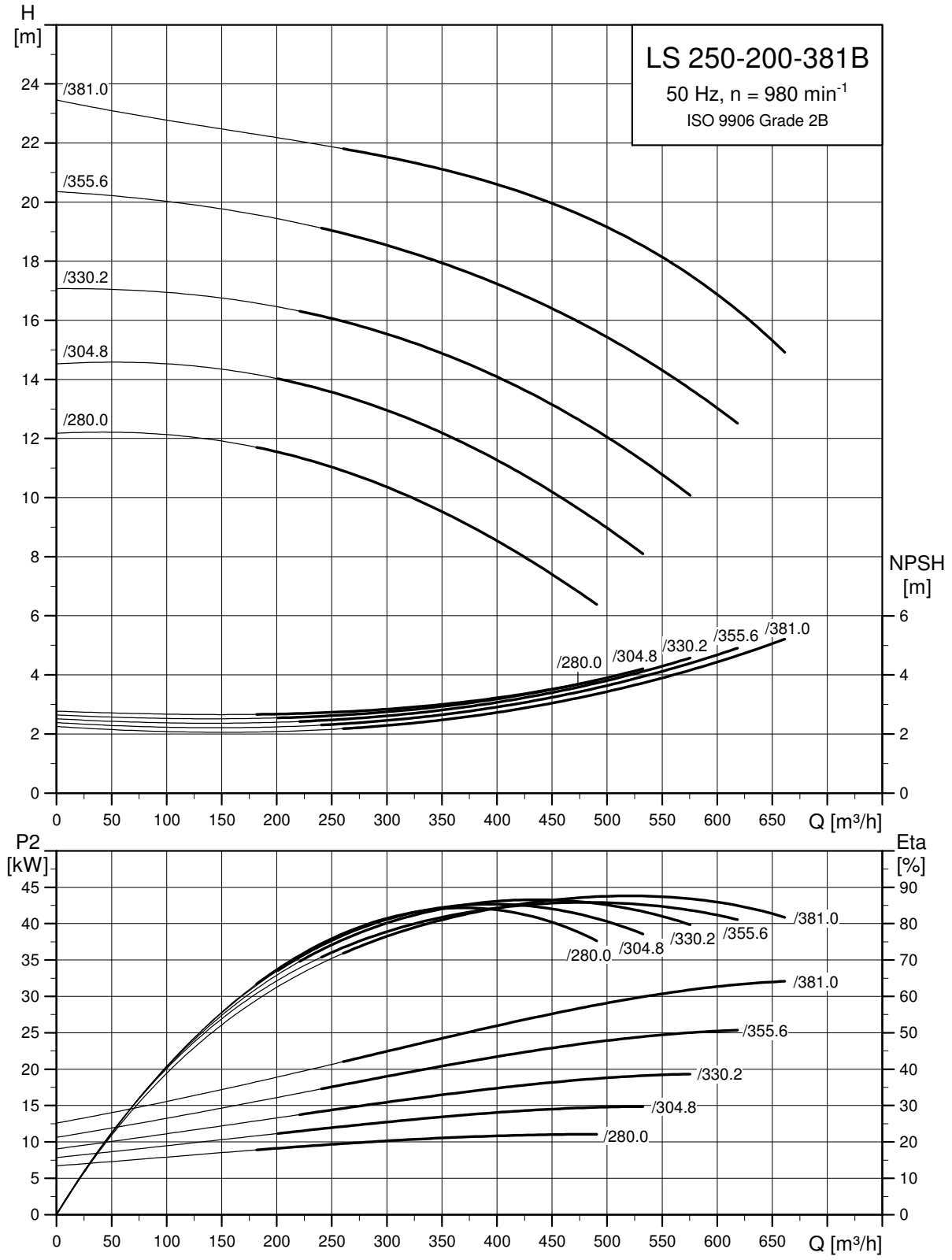


LS 200-150-508 dimensions

Motor				Pump dimensions [mm]								Motor dimensions [mm]			Distance between shaft ends [mm]
				CP											
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
18.5	200L	Siemens	6	995	995	546	53.98	432	483	311	311	660	769	886	55	4
22	200L	Siemens	6	995	995	546	53.98	432	483	311	311	660	769	886	55	4
30	225M	Siemens	6	995	995	546	53.98	432	483	311	311	660	849	989	60	4
37	250M	Siemens	6	995	995	546	53.98	432	483	311	311	660	887	981	65	4
45	280S	Siemens	6	995	995	546	53.98	432	483	311	311	660	960	1024	75	5
55	280M	Siemens	6	995	995	546	53.98	432	483	311	311	660	960	1024	75	5
75	315S	Siemens	6	995	995	546	53.98	432	483	371	371	660	1102	1166	80	5
18.5	200LA	MMG-G	6	995	995	546	53.98	432	483	311	311	660	770	923	55	4
22	200LB	MMG-G	6	995	995	546	53.98	432	483	311	311	660	770	923	55	4
30	225MC	MMG-G	6	995	995	546	53.98	432	483	311	311	660	841	949	60	4
37	250MC	MMG-G	6	995	995	546	53.98	432	483	311	311	660	921	991	65	4
45	280SB	MMG-G	6	995	995	546	53.98	432	483	311	311	660	1037.5	1024	75	5
55	280MB	MMG-G	6	995	995	546	53.98	432	483	311	311	660	1087.5	1024	75	5
75	315SB	MMG-G	6	995	995	546	53.98	432	483	371	371	660	1246	1179	80	5

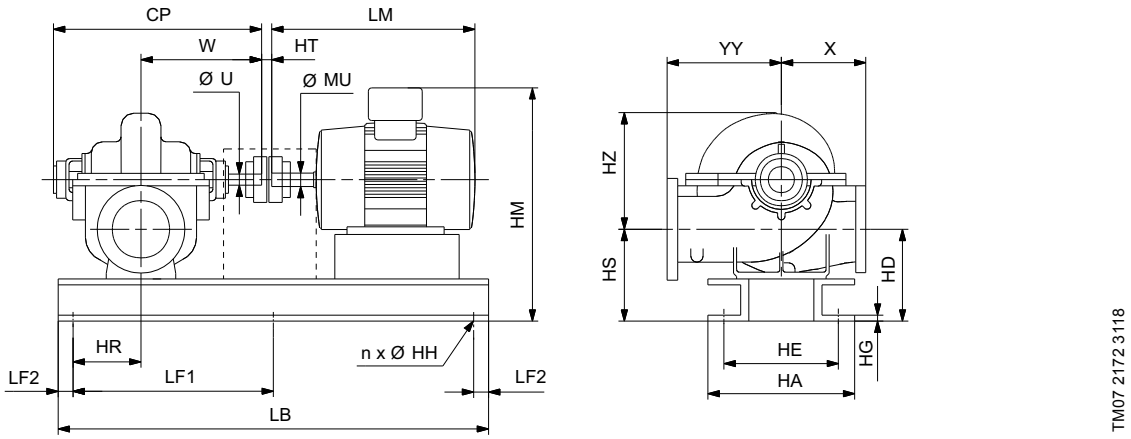
Motor				Base frame dimensions [mm]								Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
18.5	200L	Siemens	6	1520	200	78	560	425	381	8.5	6	18	171	171	29	545	186	835	2.25
22	200L	Siemens	6	1520	200	78	560	425	381	8.5	6	18	171	171	29	545	217	866	2.25
30	225M	Siemens	6	1570	200	80	585	465	403	11	6	23	169	169	108	545	325	983	2.58
37	250M	Siemens	6	1640	200	80	620	555	511	8.5	6	18	169	169	77	545	405	1076	2.51
45	280S	Siemens	6	1750	200	80	675	605	577	9	6	23	169	169	41	545	520	1204	2.71
55	280M	Siemens	6	1750	200	80	675	605	577	9	6	23	169	169	151	545	570	1254	2.84
75	315S	Siemens	6	1980	200	80	790	725	665	11	6	23	169	169	-	545	760	1514	3.32
18.5	200LA	MMG-G	6	1520	200	78	560	425	381	8.5	6	18	171	171	77	545	270	815	3.080
22	200LB	MMG-G	6	1520	200	78	560	425	381	8.5	6	18	171	171	77	545	290	835	3.080
30	25MC	MMG-G	6	1570	200	80	585	465	403	11	6	23	169	169	101	545	385	930	3.193
37	250MC	MMG-G	6	1640	200	80	620	555	511	8.5	6	18	169	169	111	545	460	1005	3.372
45	280SB	MMG-G	6	1750	200	80	675	605	577	9	6	23	169	169	119	545	561	1106	4.051
55	280MB	MMG-G	6	1750	200	80	675	605	577	9	6	23	169	169	169	545	635	1180	4.143
75	315SB	MMG-G	6	1980	200	80	790	725	665	11	6	23	169	169	97	545	900	1445	4.886

LS 250-200-381



TM07 2648 4018

LS 250-200-381 dimensional sketches

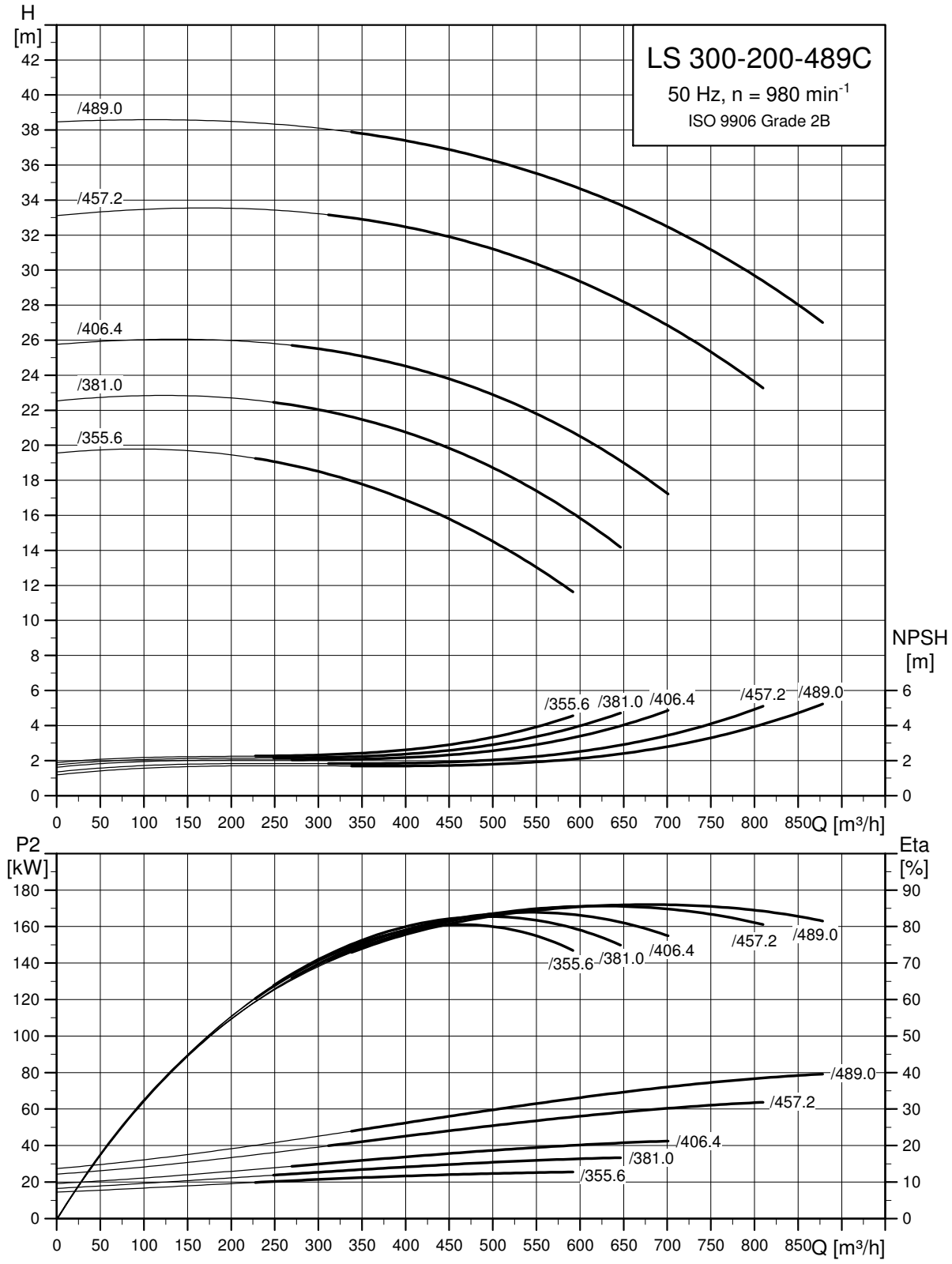


LS 250-200-381 dimensions

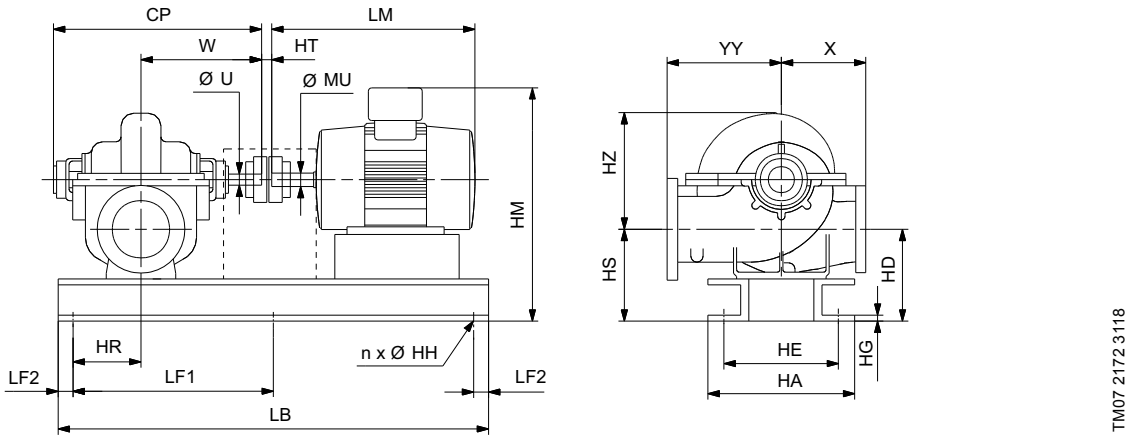
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
11	160L	Siemens	6	949	949	518	44.45	483	483	318	318	655	628	839	42	3
15	180L	Siemens	6	949	949	518	44.45	483	483	318	318	655	712	969	48	4
18.5	200L	Siemens	6	949	949	518	44.45	483	483	318	318	655	769	918	55	4
22	200L	Siemens	6	949	949	518	44.45	483	483	318	318	655	769	918	55	4
30	225M	Siemens	6	949	949	518	44.45	483	483	318	318	655	849	1021	60	7
37	250M	Siemens	6	949	949	518	44.45	483	483	318	318	655	887	1013	65	7
45	280S	Siemens	6	949	949	518	44.45	483	483	318	318	655	960	1056	75	17
11	160L	MMG-G	6	949	949	518	44.45	483	483	318	318	655	652	864	42	3
15	180L	MMG-G	6	949	949	518	44.45	483	483	318	318	655	710	890	48	4
18.5	200LA	MMG-G	6	949	949	518	44.45	483	483	318	318	655	770	955	55	4
22	200LB	MMG-G	6	949	949	518	44.45	483	483	318	318	655	770	955	55	4
30	25MC	MMG-G	6	949	949	518	44.45	483	483	318	318	655	841	981	60	7
37	250MC	MMG-G	6	949	949	518	44.45	483	483	318	318	655	921	1023	65	7
45	280SB	MMG-G	6	949	949	518	44.45	483	483	318	318	655	1037.5	1056	75	17

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
11	160L	Siemens	6	1480	200	150	540	400	356	8.5	6	18	81	81	19	568	105	782	2.19
15	180L	Siemens	6	1520	200	150	560	430	368	11	6	23	81	81	50	568	144	828	2.44
18.5	200L	Siemens	6	1560	200	150	580	425	381	8.5	6	18	81	81	33	568	186	868	2.30
22	200L	Siemens	6	1560	200	150	580	425	381	8.5	6	18	81	81	33	568	217	899	2.30
30	225M	Siemens	6	1620	200	150	610	465	403	11	6	23	81	81	102	568	325	1016	2.65
37	250M	Siemens	6	1690	200	150	645	555	511	8.5	6	18	81	81	71	568	405	1109	2.65
45	280S	Siemens	6	1780	200	150	690	605	577	9	6	23	81	81	64	568	520	1246	2.86
11	160L	MMG-G	6	1480	200	150	540	400	356	8.5	6	18	81	81	43	568	150	718	2.939
15	180L	MMG-G	6	1520	200	150	560	430	368	11	6	23	81	81	62	568	205	773	3.037
18.5	200LA	MMG-G	6	1560	200	150	580	425	381	8.5	6	18	81	81	82	568	270	838	3.138
22	200LB	MMG-G	6	1560	200	150	580	425	381	8.5	6	18	81	81	82	568	290	858	3.138
30	25MC	MMG-G	6	1620	200	150	610	465	403	11	6	23	81	81	96	568	385	953	3.280
37	250MC	MMG-G	6	1690	200	150	645	555	511	8.5	6	18	81	81	106	568	460	1028	3.523
45	280SB	MMG-G	6	1780	200	150	690	605	577	9	6	23	81	81	142	568	561	1129	4.241

LS 300-200-489



LS 300-200-489 dimensional sketches

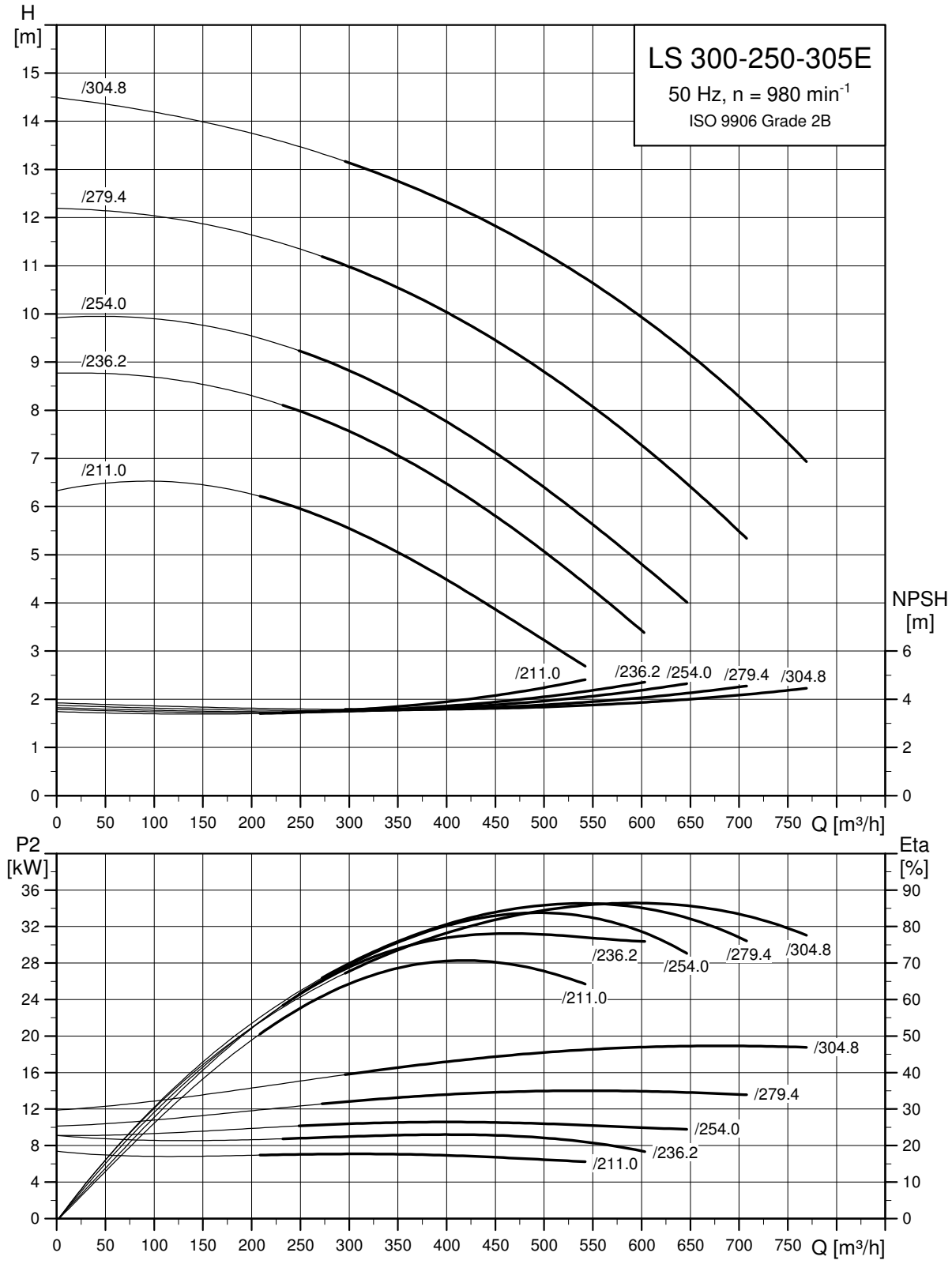


LS 300-200-489 dimensions

Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
37	250M	Siemens	6	1306	1306	723	63.5	414	559	338	338	745	887	1139	65	4
45	280S	Siemens	6	1306	1306	723	63.5	414	559	338	338	745	960	1082	75	4
55	280M	Siemens	6	1306	1306	723	63.5	414	559	338	338	745	960	1082	75	4
75	315S	Siemens	6	1306	1306	723	63.5	414	559	398	398	745	1102	1244	80	4
90	315M	Siemens	6	1306	1306	723	63.5	414	559	398	398	745	1262	1244	80	4
110	315L	Siemens	6	1306	1306	723	63.5	414	559	398	398	745	1262	1244	80	4
37	250MC	MMG-G	6	1306	1306	723	63.5	414	559	338	338	745	921	1069	65	4
45	280SB	MMG-G	6	1306	1306	723	63.5	414	559	338	338	745	1037.5	1102	75	4
55	280MB	MMG-G	6	1306	1306	723	63.5	414	559	338	338	745	1087.5	1102	75	4
75	315SB	MMG-G	6	1306	1306	723	63.5	414	559	398	398	745	1246	1257	80	4
90	315MB	MMG-G	6	1306	1306	723	63.5	414	559	398	398	745	1296	1257	80	4
110	315LB	MMG-G	6	1306	1306	723	63.5	414	559	398	398	745	1396	1257	80	4

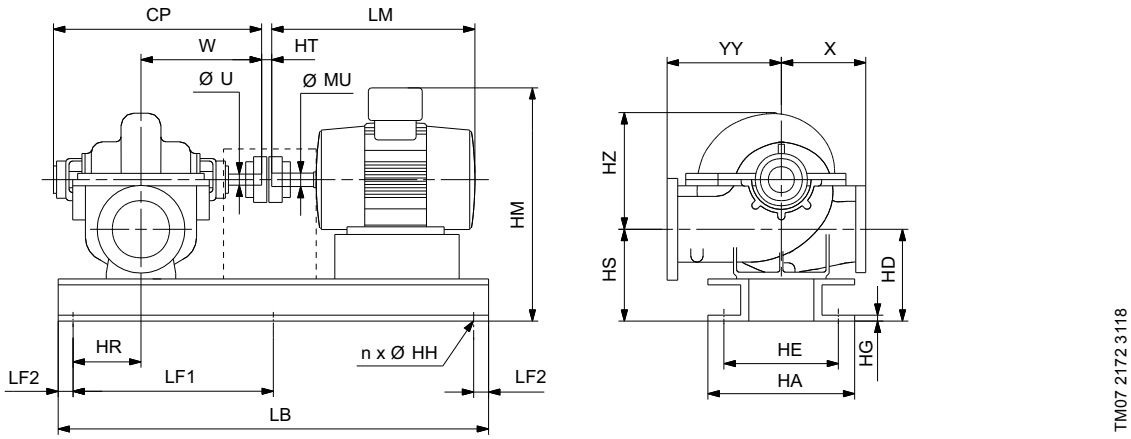
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
37	250M	Siemens	6	1900	200	150	750	680	618	11	6	23	233	233	63	727	405	1354	3.49
45	280S	Siemens	6	2000	200	150	800	680	636	8.5	6	18	233	233	36	727	520	1430	3.42
55	280M	Siemens	6	2000	200	150	800	680	636	8.5	6	18	233	233	36	727	570	1480	3.42
75	315S	Siemens	6	2150	200	150	875	700	638	11	6	18	233	233	28	727	760	1723	4.12
90	315M	Siemens	6	2150	200	150	875	700	638	11	6	18	233	233	188	727	935	1898	4.37
110	315L	Siemens	6	2150	200	150	875	700	638	11	6	18	233	233	188	727	1010	1973	4.37
37	250MC	MMG-G	6	1900	200	150	750	680	618	11	6	23	233	233	98	727	460	1187	4.798
45	280SB	MMG-G	6	2000	200	150	800	680	632	8.5	6	18	233	233	115	727	561	1288	5.094
55	280MB	MMG-G	6	2000	200	150	800	680	632	8.5	6	18	233	233	165	727	635	1362	5.196
75	315SB	MMG-G	6	2150	200	150	875	700	638	11	6	18	233	233	173	727	900	1627	6.051
90	315MB	MMG-G	6	2150	200	150	875	700	638	11	6	18	233	233	223	727	960	1687	6.163
110	315LB	MMG-G	6	2150	200	150	875	700	638	11	6	18	233	233	323	727	1090	1817	6.386

LS 300-250-305



TM07 2651 4018

LS 300-250-305 dimensional sketches

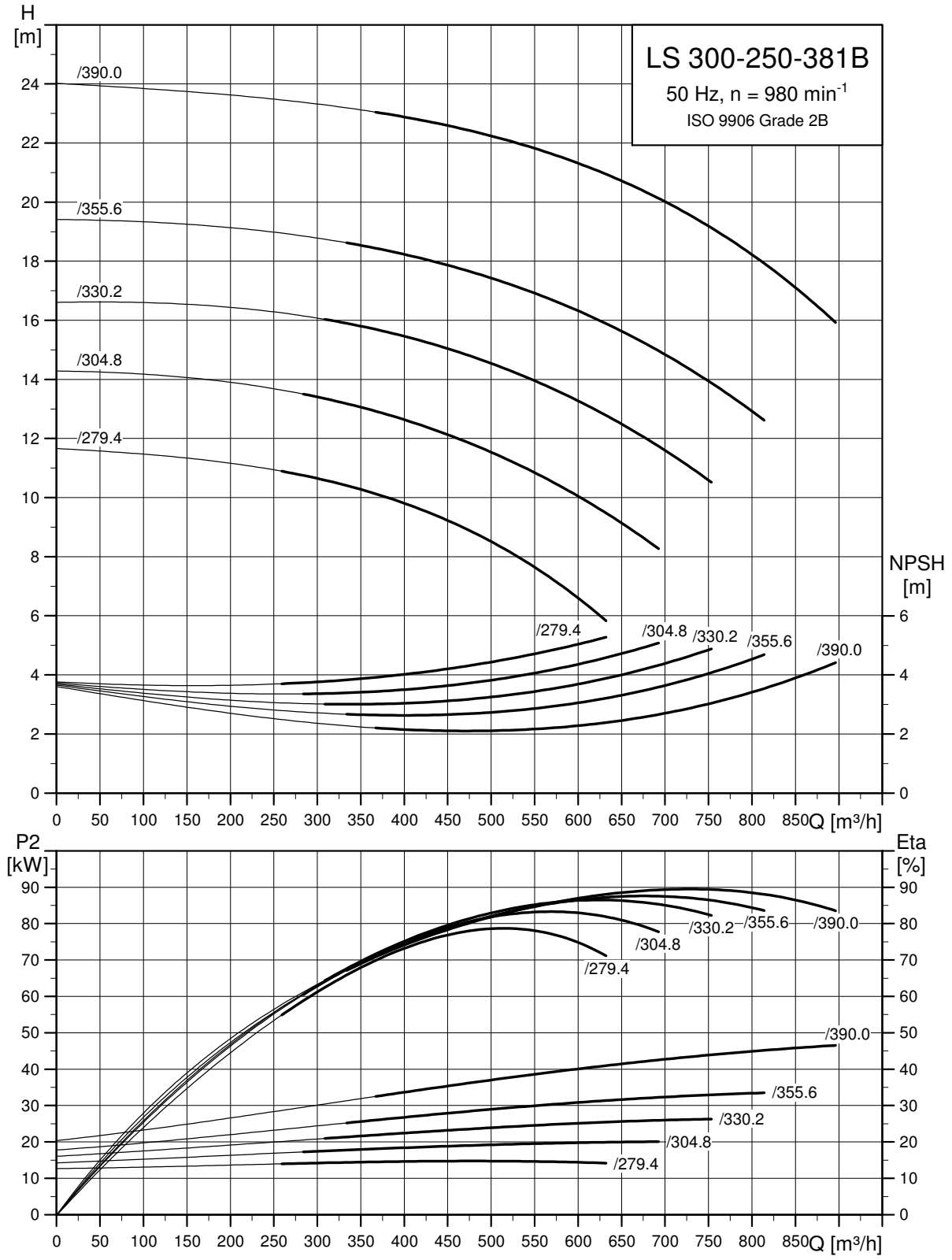


LS 300-250-305 dimensions

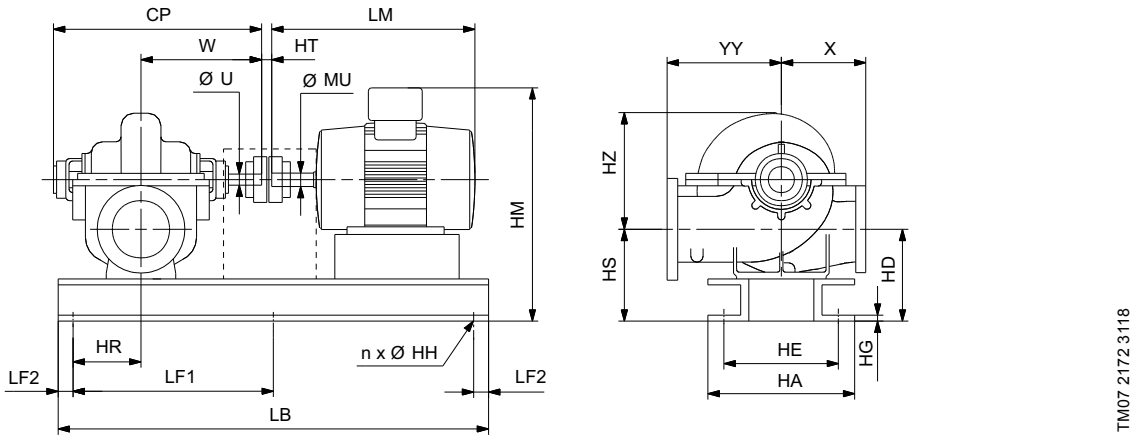
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
11	160L	Siemens	6	974	974	530	44.45	495	495	343	343	645	628	880	42	3
15	180L	Siemens	6	974	974	530	44.45	495	495	343	343	645	712	929	48	4
18.5	200L	Siemens	6	974	974	530	44.45	495	495	343	343	645	769	958	55	4
22	200L	Siemens	6	974	974	530	44.45	495	495	343	343	645	769	958	55	4
30	225M	Siemens	6	974	974	530	44.45	495	495	343	343	645	849	981	60	6
11	160L	MMG-G	6	974	974	530	44.45	495	495	343	343	645	652	884	42	3
15	180L	MMG-G	6	974	974	530	44.45	495	495	343	343	645	710	910	48	4
18.5	200LA	MMG-G	6	974	974	530	44.45	495	495	343	343	645	770	975	55	4
22	200LB	MMG-G	6	974	974	530	44.45	495	495	343	343	645	770	975	55	4
30	25MC	MMG-G	6	974	974	530	44.45	495	495	343	343	645	841	1001	60	6

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
11	160L	Siemens	6	1500	200	150	550	420	372	9	6	18	94	94	11	636	105	855	2.34
15	180L	Siemens	6	1530	200	150	565	400	352	9	6	18	94	94	52	636	144	895	2.43
18.5	200L	Siemens	6	1570	200	150	585	420	372	9	6	18	94	94	35	636	186	939	2.46
22	200L	Siemens	6	1570	200	150	585	420	372	9	6	18	94	94	35	636	217	970	2.46
30	225M	Siemens	6	1650	200	150	625	465	417	9	6	18	94	94	85	636	325	1089	2.59
11	160L	MMG-G	6	1500	200	150	550	420	372	9	6	18	94	94	35	636	150	786	3.071
15	180L	MMG-G	6	1530	200	150	565	400	352	9	6	18	94	94	64	636	205	841	3.172
18.5	200LA	MMG-G	6	1570	200	150	585	420	372	9	6	18	94	94	84	636	270	906	3.276
22	200LB	MMG-G	6	1570	200	150	585	420	372	9	6	18	94	94	84	636	290	926	3.276
30	25MC	MMG-G	6	1650	200	150	625	465	417	9	6	18	94	94	77	636	385	1021	3.436

LS 300-250-381



LS 300-250-381 dimensional sketches



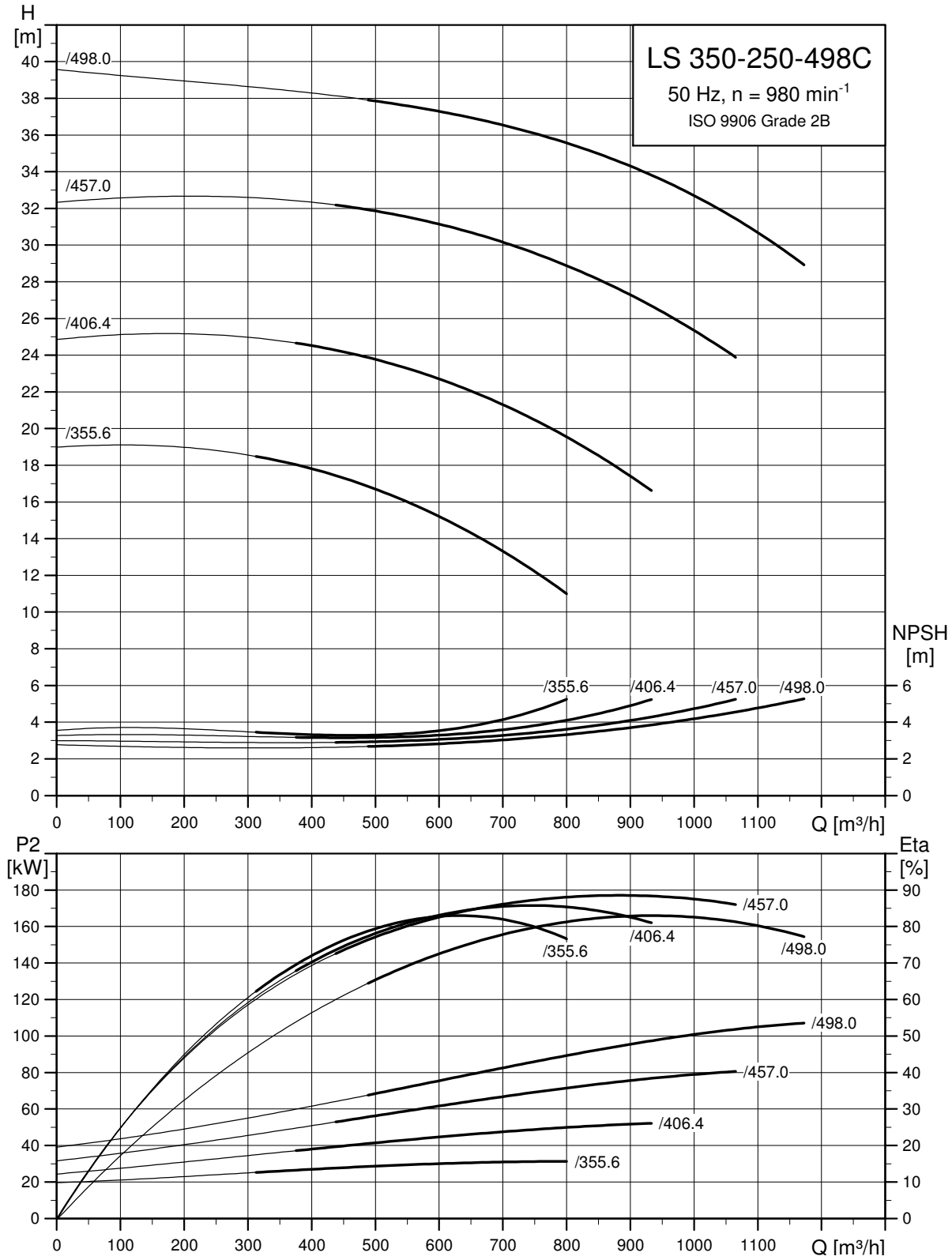
TM07 2172 3118

LS 300-250-381 dimensions

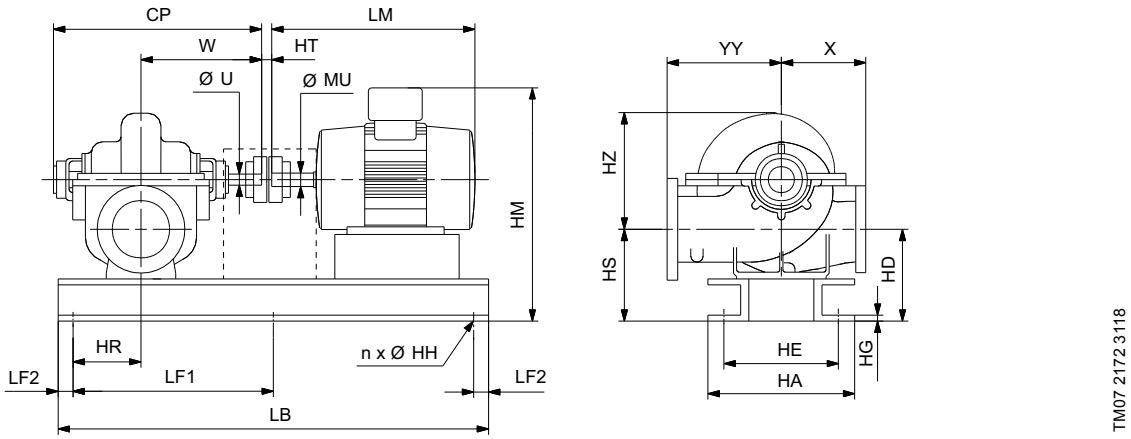
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
18.5	200L	Siemens	6	1051	1051	600	57.15	432	584	394	394	630	769	963	55	4
22	200L	Siemens	6	1051	1051	600	57.15	432	584	394	394	630	769	963	55	4
30	225M	Siemens	6	1051	1051	600	57.15	432	584	394	394	630	849	986	60	4
37	250M	Siemens	6	1051	1051	600	57.15	432	584	394	394	630	887	1058	65	4
45	280S	Siemens	6	1051	1051	600	57.15	432	584	454	454	630	960	1141	75	4
55	280M	Siemens	6	1051	1051	600	57.15	432	584	454	454	630	960	1141	75	4
18.5	200LA	MMG-G	6	1051	1051	600	57.15	432	584	394	394	630	770	980	55	4
22	200LB	MMG-G	6	1051	1051	600	57.15	432	584	394	394	630	770	980	55	4
30	25MC	MMG-G	6	1051	1051	600	57.15	432	584	394	394	630	841	1006	60	4
37	250MC	MMG-G	6	1051	1051	600	57.15	432	584	394	394	630	921	1048	65	4
45	280SB	MMG-G	6	1051	1051	600	57.15	432	584	454	454	630	1037.5	1141	75	4
55	280MB	MMG-G	6	1051	1051	600	57.15	432	584	454	454	630	1087.5	1141	75	4

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
18.5	200L	Siemens	6	1570	200	80	585	520	472	9	6	18	171	171	35	991	186	1301	2.70
22	200L	Siemens	6	1570	200	80	585	520	472	9	6	18	171	171	35	991	217	1332	2.70
30	225M	Siemens	6	1640	200	80	620	540	492	9	6	18	171	171	92	991	325	1447	2.87
37	250M	Siemens	6	1700	200	80	650	560	512	9	6	18	171	171	71	991	405	1536	3.02
45	280S	Siemens	6	1800	200	80	700	600	538	11	6	23	171	171	44	991	520	1709	3.34
55	280M	Siemens	6	1800	200	80	700	600	538	11	6	23	171	171	154	991	570	1759	3.51
18.5	200LA	MMG-G	6	1570	200	80	585	520	472	9	6	18	171	171	84	991	270	1261	3.571
22	200LB	MMG-G	6	1570	200	80	585	520	472	9	6	18	171	171	84	991	290	1281	3.571
30	25MC	MMG-G	6	1640	200	80	620	540	492	9	6	23	171	171	85	991	385	1376	3.699
37	250MC	MMG-G	6	1700	200	80	650	560	512	9	6	18	171	171	105	991	460	1451	3.911
45	280SB	MMG-G	6	1800	200	80	700	600	538	11	6	23	171	171	121	991	561	1552	4.842
55	280MB	MMG-G	6	1800	200	80	700	600	538	11	6	23	171	171	171	991	635	1626	4.950

LS 350-250-498



LS 350-250-498 dimensional sketches

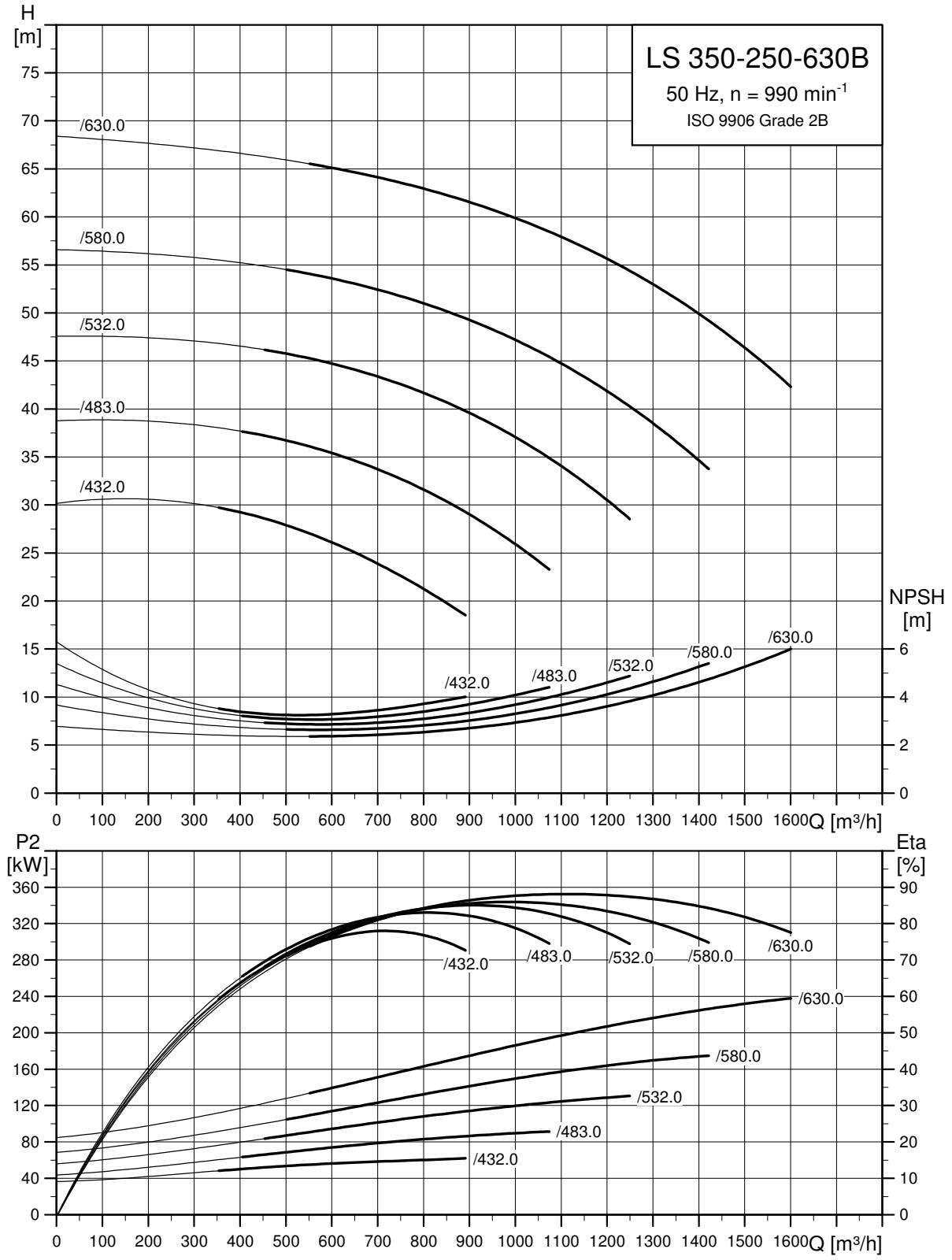


LS 350-250-498 dimensions

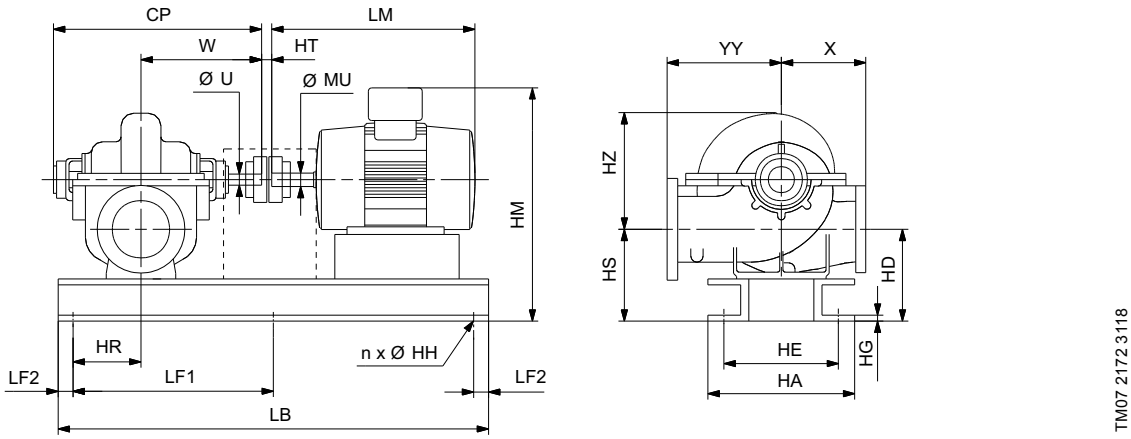
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
45	280S	Siemens	6	1403	1403	797	79.38	508	660	446	446	785	960	1219	75	4
55	280M	Siemens	6	1403	1403	797	79.38	508	660	446	446	785	960	1219	75	4
75	315S	Siemens	6	1403	1403	797	79.38	508	660	446	446	785	1102	1301	80	4
90	315M	Siemens	6	1403	1403	797	79.38	508	660	446	446	785	1262	1301	80	4
110	315L	Siemens	6	1403	1403	797	79.38	508	660	446	446	785	1262	1301	80	4
132	315L	Siemens	6	1403	1403	797	79.38	508	660	446	446	785	1402	1301	80	4
200	315L	Siemens	6	1403	1403	797	79.38	508	660	426	426	785	1410	1266	85	4
45	280SB	MMG-G	6	1403	1403	797	79.38	508	660	446	446	785	1037.5	1219	75	4
55	280MB	MMG-G	6	1403	1403	797	79.38	508	660	446	446	785	1087.5	1219	75	4
75	315SB	MMG-G	6	1403	1403	797	79.38	508	660	446	446	785	1246	1314	80	4
90	315MB	MMG-G	6	1403	1403	797	79.38	508	660	446	446	785	1296	1314	80	4
110	315LB	MMG-G	6	1403	1403	797	79.38	508	660	446	446	785	1396	1314	80	4
132	315LC	MMG-G	6	1403	1403	797	79.38	508	660	446	446	785	1396	1314	80	4
160	355MB	MMG-G	6	1403	1403	797	79.38	508	660	426	426	785	1605	1411	100	4

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
45	280S	Siemens	6	2060	200	150	830	700	638	11	6	23	256	256	51	1436	520	2213	4.67
55	280M	Siemens	6	2060	200	150	830	700	638	11	6	23	256	256	161	1436	570	2263	4.87
75	315S	Siemens	6	2200	200	150	900	680	620	11	6	23	256	256	33	1436	760	2483	5.15
90	315M	Siemens	6	2200	200	150	900	680	620	11	6	23	256	256	198	1436	935	2658	5.47
110	315L	Siemens	6	2200	200	150	900	680	620	11	6	23	256	256	198	1436	1010	2733	5.47
132	315L	Siemens	6	2200	200	150	900	680	620	11	6	23	256	256	198	1436	1180	2903	5.47
200	315L	Siemens	6	2310	200	150	955	720	663	10.5	6	23	256	256	360	1436	1300	3048	5.64
45	280SB	MMG-G	6	2060	200	150	830	700	638	11	6	23	256	256	128	1436	561	1997	6.592
55	280MB	MMG-G	6	2060	200	150	830	700	638	11	6	23	256	256	178	1436	635	2071	6.719
75	315SB	MMG-G	6	2300	250	100	900	680	620	11	6	23	256	256	97	1436	900	2336	7.461
90	315MB	MMG-G	6	2300	250	100	900	680	620	11	6	23	256	256	147	1436	960	2396	7.595
110	315LB	MMG-G	6	2300	250	100	900	680	620	11	6	23	256	256	247	1436	1090	2526	7.861
132	315LC	MMG-G	6	2300	250	100	900	680	620	11	6	23	256	256	247	1436	1250	2686	7.861
160	355MB	MMG-G	6	2410	200	150	1005	820	762.5	10.5	6	23	256	256	346	1436	1750	3186	8.871

LS 350-250-630



LS 350-250-630 dimensional sketches



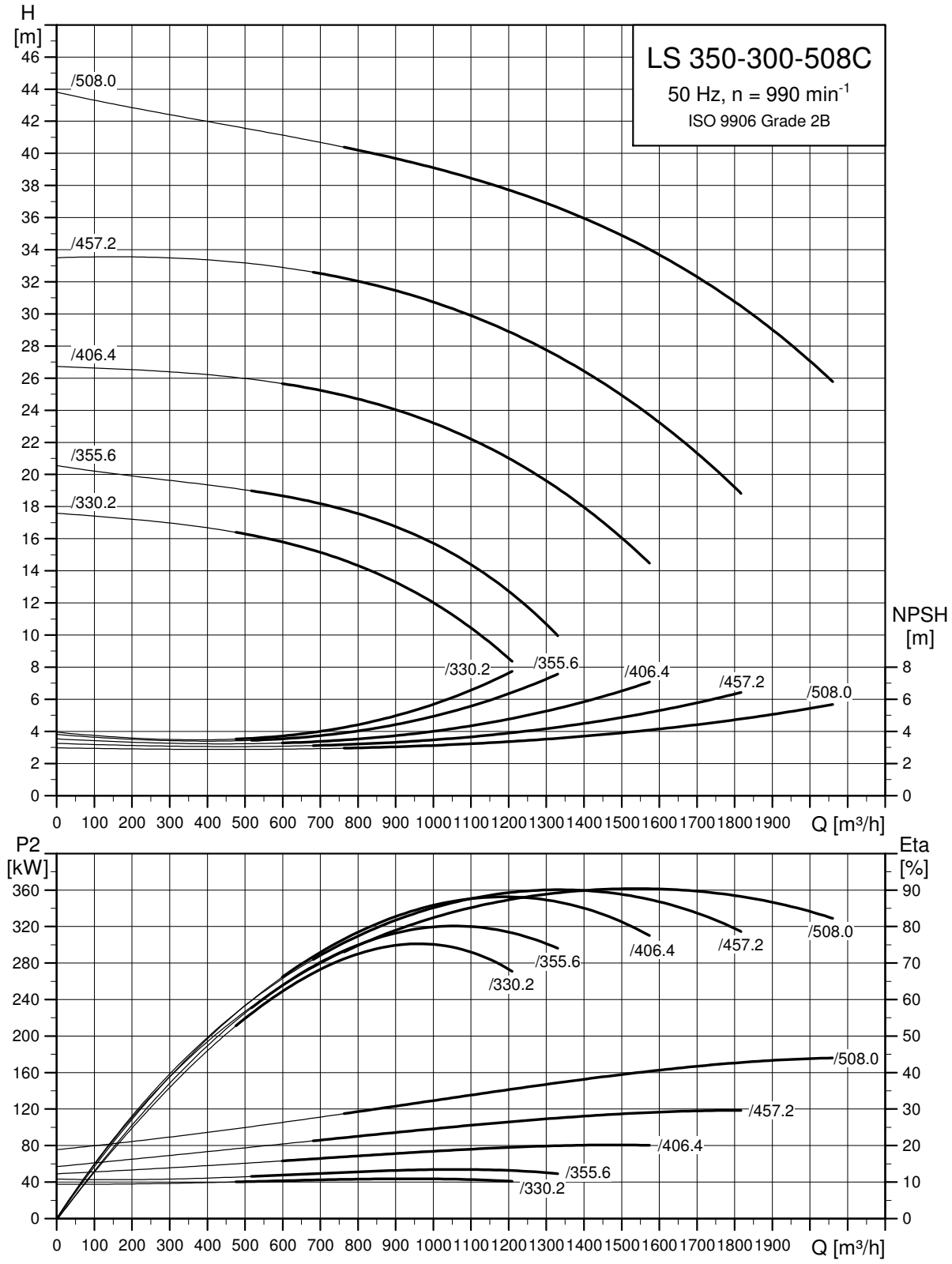
TM07 2172 3118

LS 350-250-630 dimensions

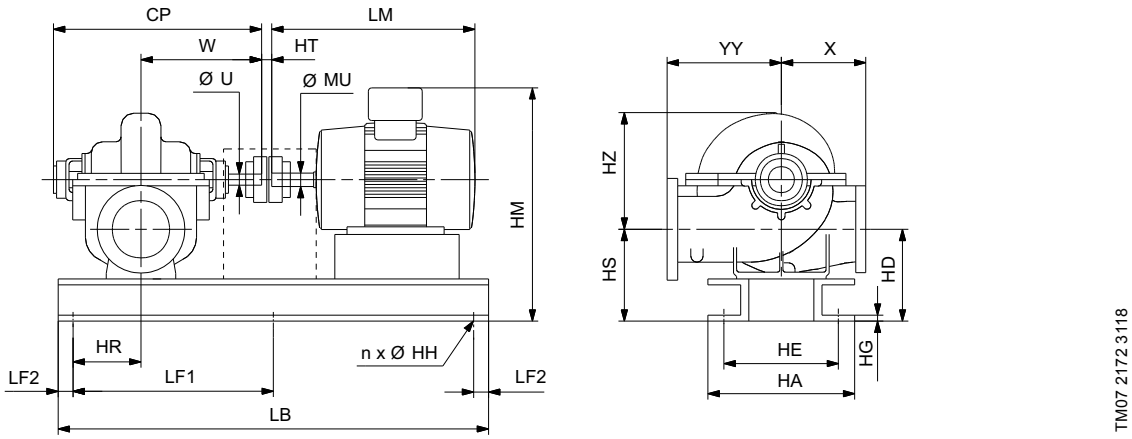
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
				CP												
P2 [kW]	Frame size	Brand	Pole	Mechanical seal	Stuffing box	W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
75	315S	Siemens	6	1377	1377	799	79.38	610	711	505	505	820	1102	1350	80	4
90	315M	Siemens	6	1377	1377	799	79.38	610	711	505	505	820	1262	1350	80	4
110	315L	Siemens	6	1377	1377	799	79.38	610	711	505	505	820	1262	1350	80	4
132	315L	Siemens	6	1377	1377	799	79.38	610	711	505	505	820	1402	1350	80	4
160	315L	Siemens	6	1377	1377	799	79.38	610	711	505	505	820	1402	1350	80	4
200	315L	Siemens	6	1377	1377	799	79.38	610	711	505	505	820	1410	1335	85	4
250	315L	Siemens	6	1377	1377	799	79.38	610	711	505	505	820	1400	1405	85	40
315	315L	Siemens	6	1377	1377	799	79.38	610	711	485	485	820	1635	1505	95	4
75	315SB	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1246	1363	80	4
90	315MB	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1296	1363	80	4
110	315LB	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1396	1363	80	4
132	315LC	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1396	1363	80	4
160	355MB	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1605	1480	100	4
185	355MC	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1605	1480	100	4
200	355MD	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1605	1480	100	4
220	355ME	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1605	1480	100	5
250	355L	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1605	1480	100	4
300	355C	MMG-G	6	1377	1377	799	79.38	610	711	505	505	820	1795	1480	100	5

Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
75	315S	Siemens	6	2310	200	150	955	724	656	11	6	23	228	228	-	1905	760	2982	6.04
90	315M	Siemens	6	2310	200	150	955	724	656	11	6	23	228	228	104	1905	935	3157	6.27
110	315L	Siemens	6	2310	200	150	955	724	656	11	6	23	228	228	104	1905	1010	3232	6.27
132	315L	Siemens	6	2310	200	150	955	724	656	11	6	23	228	228	244	1905	1180	3402	6.58
160	315L	Siemens	6	2310	200	150	955	724	656	11	6	23	228	228	244	1905	1180	3402	6.58
200	315L	Siemens	6	2310	200	150	955	724	656	11	6	23	228	228	252	1905	1300	3522	6.53
250	315L	Siemens	6	2310	200	150	955	724	656	11	6	23	228	228	242	1905	1500	3722	6.82
315	315L	Siemens	6	2570	200	150	1085	835	778	10.5	6	23	228	228	217	1905	2000	4249	7.85
75	315SB	MMG-G	6	2310	200	150	955	724	656	11	6	23	228	228	89	1905	900	2805	8.383
90	315MB	MMG-G	6	2310	200	150	955	724	656	11	6	23	228	228	139	1905	960	2865	8.534
110	315LB	MMG-G	6	2310	200	150	955	724	656	11	6	23	228	228	239	1905	1090	2995	8.836
132	315LC	MMG-G	6	2310	200	150	955	724	656	11	6	23	228	228	239	1905	1250	3155	8.836
160	355MB	MMG-G	6	2550	320	30	955	790	740	11	6	23	228	228	208	1905	1750	3655	10.065
185	355MC	MMG-G	6	2550	320	30	955	790	740	11	6	23	228	228	208	1905	1900	3805	10.065
200	355MD	MMG-G	6	2550	320	30	955	790	740	11	6	23	228	228	208	1905	1950	3855	10.065
220	355ME	MMG-G	6	2550	320	30	955	790	740	11	6	23	228	228	209	1905	2020	3925	10.067
250	355L	MMG-G	6	2550	320	30	955	790	740	11	6	23	228	228	208	1905	2200	4105	10.065
300	355C	MMG-G	6	2710	200	148	1155	805	737	11	6	18	230	230	237	1905	2400	4305	10.677

LS 350-300-508



LS 350-300-508 dimensional sketches



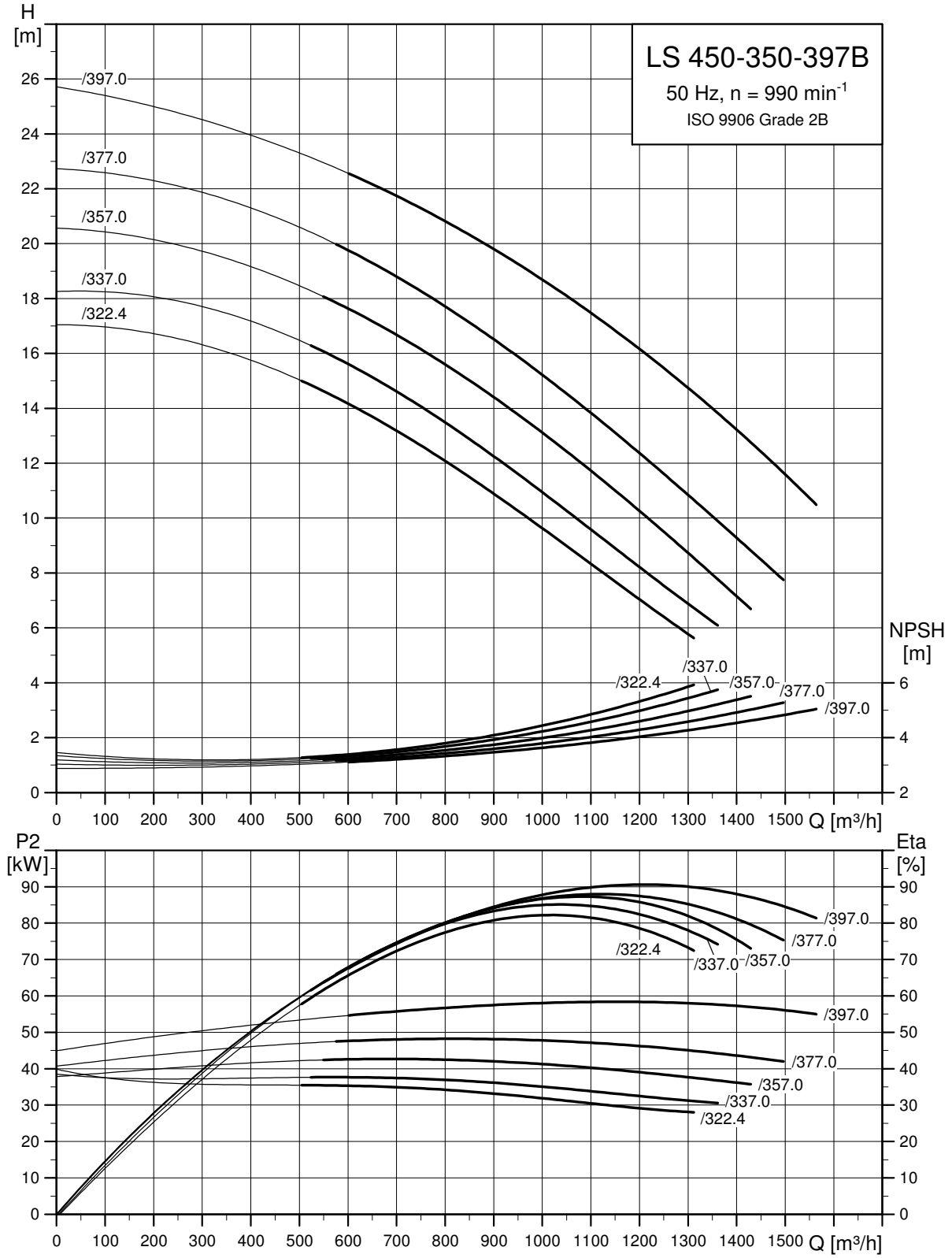
TM07 2172 3118

LS 350-300-508 dimensions

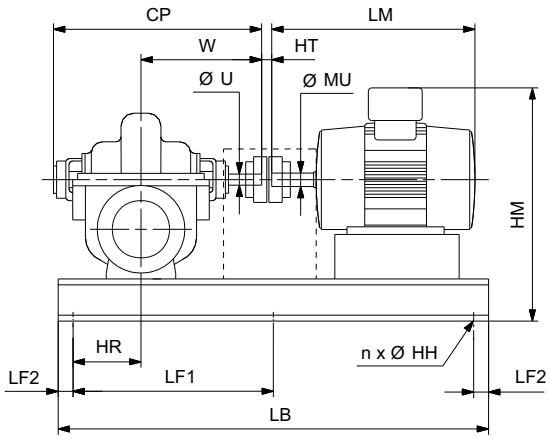
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
55	280M	Siemens	6	1377	1377	749	63.5	584	711	513	513	790	960	1276	75	4
75	315S	Siemens	6	1377	1377	749	63.5	584	711	513	513	790	1102	1358	80	4
90	315M	Siemens	6	1377	1377	749	63.5	584	711	513	513	790	1262	1358	80	4
110	315L	Siemens	6	1377	1377	749	63.5	584	711	513	513	790	1262	1358	80	4
132	315L	Siemens	6	1377	1377	749	63.5	584	711	513	513	790	1402	1358	80	4
160	315L	Siemens	6	1377	1377	749	63.5	584	711	513	513	790	1402	1358	80	4
200	315L	Siemens	6	1377	1377	749	63.5	584	711	513	513	790	1410	1343	85	4
55	280MB	MMG-G	6	1377	1377	749	63.5	584	711	513	513	790	1087.5	1276	75	4
75	315SB	MMG-G	6	1377	1377	749	63.5	584	711	513	513	790	1246	1371	80	4
90	315MB	MMG-G	6	1377	1377	749	63.5	584	711	513	513	790	1296	1371	80	4
110	315LB	MMG-G	6	1377	1377	749	63.5	584	711	513	513	790	1396	1371	80	4
132	315LC	MMG-G	6	1377	1377	749	63.5	584	711	513	513	790	1396	1371	80	4
160	355MB	MMG-G	6	1377	1377	749	63.5	584	711	513	513	790	1605	1488	100	4
185	355MC	MMG-G	6	1377	1377	749	63.5	584	711	513	513	790	1605	1488	100	27
200	355MD	MMG-G	6	1377	1377	749	63.5	584	711	513	513	790	1605	1488	100	27

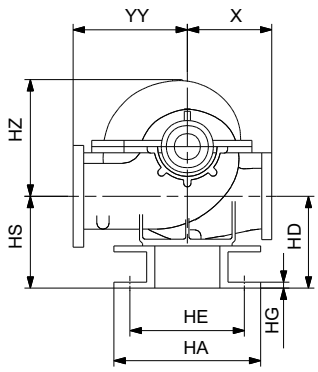
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
55	280M	Siemens	6	2020	200	150	810	700	638	11	6	23	278	278	153	1318	570	2148	5.56
75	315S	Siemens	6	2290	200	150	945	710	656	11	6	23	278	278	-	1318	760	2356	5.97
90	315M	Siemens	6	2290	200	150	945	710	656	11	6	23	278	278	60	1318	935	2531	6.10
110	315L	Siemens	6	2290	200	150	945	710	656	11	6	23	278	278	60	1318	1010	2606	6.10
132	315L	Siemens	6	2290	200	150	945	710	656	11	6	23	278	278	60	1318	1180	2776	6.10
160	315L	Siemens	6	2290	200	150	945	710	656	11	6	23	278	278	60	1318	1180	2776	6.10
200	315L	Siemens	6	2290	200	150	945	710	656	11	6	23	278	278	60	1318	1300	2896	6.04
55	280MB	MMG-G	6	2020	200	150	810	700	638	11	6	23	278	278	171	1318	635	1953	7.531
75	315SB	MMG-G	6	2290	215	135	930	710	656	11	6	23	278	278	59	1318	900	2218	8.285
90	315MB	MMG-G	6	2290	215	135	930	710	656	11	6	23	278	278	109	1318	960	2278	8.435
110	315LB	MMG-G	6	2290	215	135	930	710	656	11	6	23	278	278	209	1318	1090	2408	8.733
132	315LC	MMG-G	6	2290	215	135	930	710	656	11	6	23	278	278	209	1318	1250	2568	8.733
160	355MB	MMG-G	6	2500	320	30	930	810	756	11	6	23	278	278	208	1318	1750	3068	9.944
185	355MC	MMG-G	6	2500	320	30	930	810	756	11	6	23	278	278	231	1318	1900	3218	10.017
200	355MD	MMG-G	6	2500	320	30	930	810	756	11	6	23	278	278	231	1318	1950	3268	10.017

LS 450-350-397



LS 450-350-397 dimensional sketches





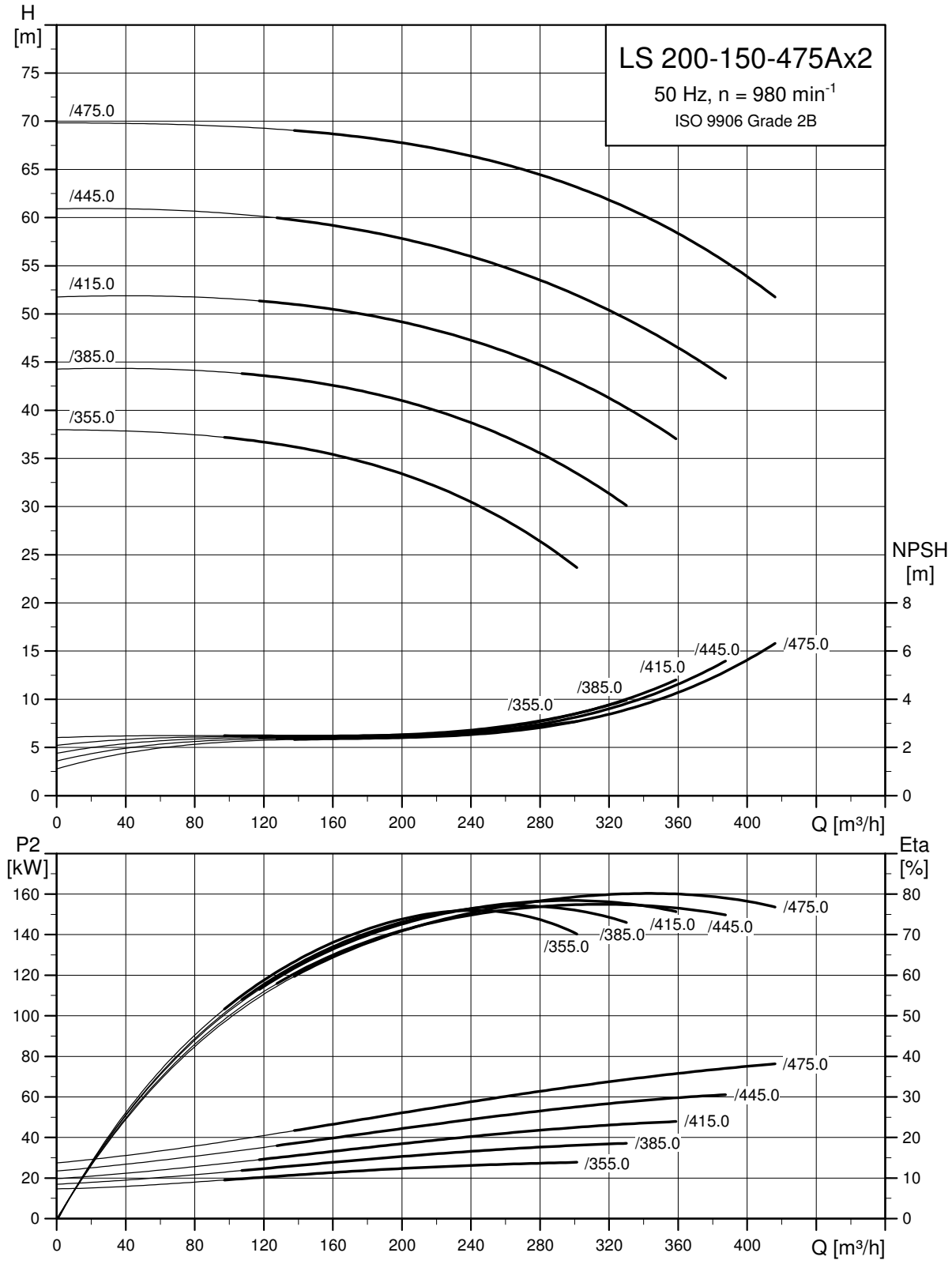
TM07 2172 3118

LS 450-350-397 dimensions

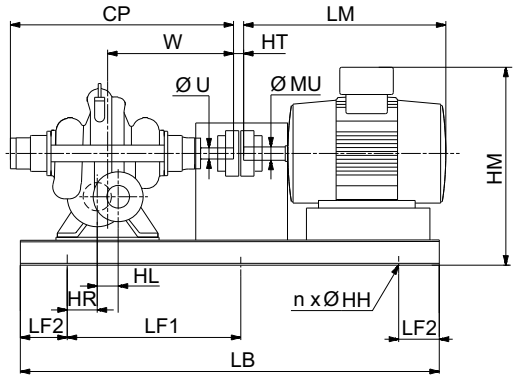
Motor				Pump dimensions [mm]									Motor dimensions [mm]			Distance between shaft ends [mm]
P2 [kW]	Frame size	Brand	Pole	CP		W	ØU	X	YY	HD	HS	HZ	LM	HM	ØMU	HT
				Mechanical seal	Stuffing box											
37	250M	Siemens	6	1400	1400	773.5	63.5	545	625	485	485	730	887	1280	65	4
45	280S	Siemens	6	1400	1400	773.5	63.5	545	625	485	485	730	960	1303	75	4
55	280M	Siemens	6	1400	1400	773.5	63.5	545	625	485	485	730	960	1303	75	4
75	315S	Siemens	6	1400	1400	773.5	63.5	545	625	485	485	730	1102	1385	80	4
37	250MC	MMG-G	6	1400	1400	773.5	63.5	545	625	485	485	730	921	1250	65	4
45	280SB	MMG-G	6	1400	1400	773.5	63.5	545	625	485	485	730	1037.5	1283	75	4
55	280MB	MMG-G	6	1400	1400	773.5	63.5	545	625	485	485	730	1087.5	1283	75	4
75	315SB	MMG-G	6	1400	1400	773.5	63.5	545	625	485	485	730	1246	1378	80	4

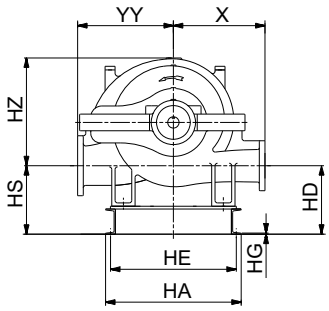
Motor				Base frame dimensions [mm]									Overhang [mm]			Net weights [kg]			Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	LF1	HA	HE	HG	n	ØHH	Mechanical seal	Stuffing box	Motor end	Pump	Motor	Total	
37	250M	Siemens	6	2008	200	230	831	805	750	11	6	23	146	146	84	1460	405	2145	4.75
45	280S	Siemens	6	2040	200	230	871	820	758	11	6	23	288	288	-	1460	520	2278	5.04
55	280M	Siemens	6	2040	200	230	871	820	758	11	6	23	288	288	-	1460	570	2328	5.04
75	315S	Siemens	6	2330	200	230	1016	805	755	11	6	23	146	146	-	1460	760	2561	5.50
37	250MC	MMG-G	6	2008	200	228	780	805	750	11	6	23	199	199	118	1460	460	1920	6.366
45	280SB	MMG-G	6	2040	200	228	820	820	758	11	6	23	199	199	203	1460	561	2021	6.791
55	280MB	MMG-G	6	2040	200	228	820	820	758	11	6	23	199	199	253	1460	635	2095	6.922
75	315SB	MMG-G	6	2330	200	228	965	805	754.5	11	6	23	199	199	121	1460	900	2360	7.727

LS 200-150-475x2



LS 200-150-475x2 dimensional sketches





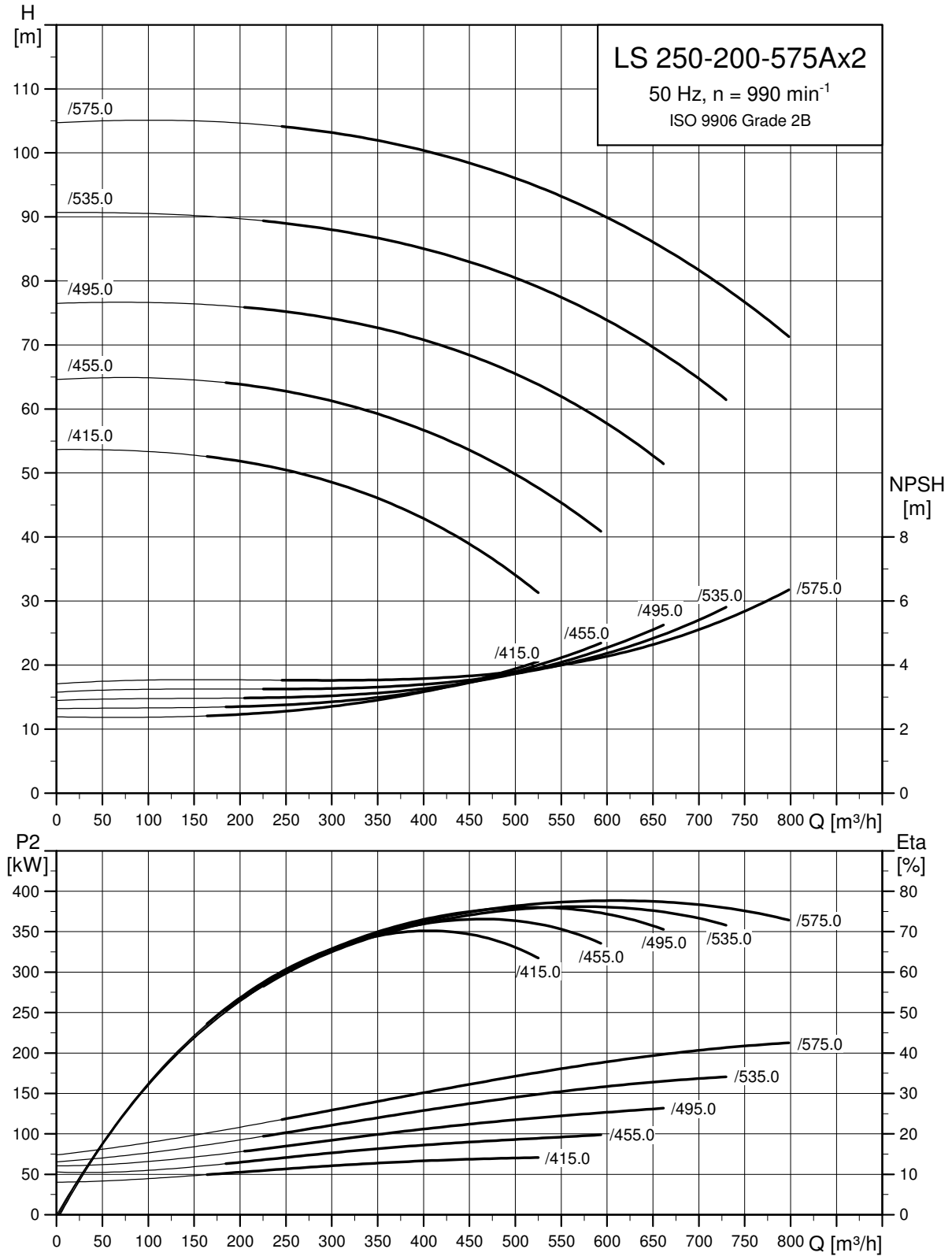
TM07 2170 3118

LS 200-150-475x2 dimensions

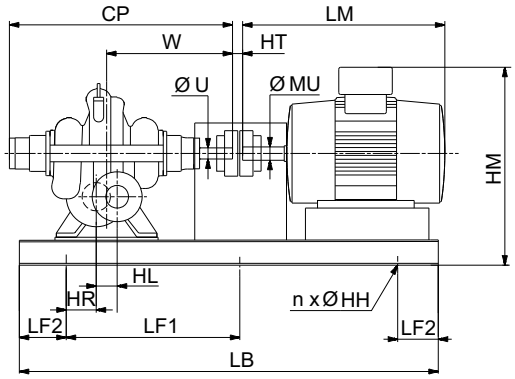
Motor				Pump dimensions [mm]							Motor dimensions [mm]			Distance between shaft ends [mm]	Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	CP	W	ØU	X	YY	HD/HS	HZ	LM	HM	ØMU	HT	
37	250MC	MMG-G	6	1142	615	57.15	550	575	400	685	921	1060	65	4	5.007
45	280SB	MMG-G	6	1142	615	57.15	550	575	400	685	1037.5	1093	75	9	5.308
55	280MB	MMG-G	6	1142	615	57.15	550	575	400	685	1087.5	1093	75	9	5.422
75	315SB	MMG-G	6	1142	615	57.15	550	575	400	685	1246	1188	80	14	6.137
90	315MB	MMG-G	6	1142	615	57.15	550	575	400	685	1296	1188	80	14	6.257

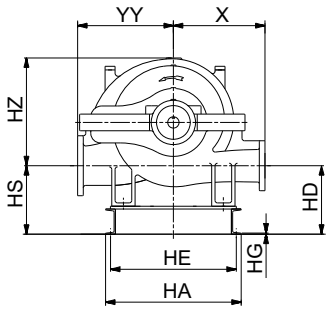
Motor				Base frame dimensions [mm]										Overhang [mm]		Net weights [kg]		
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	HL	LF1	HA	HE	HG	n	ØHH	Pump	Motor	Pump	Motor	Total
37	250MC	MMG-G	6	1824	200	130	130	712	830	786	9.5	6	23	197	46	960	460	1420
45	280SB	MMG-G	6	1952	200	130	130	776	830	786	9.5	6	23	197	40	960	561	1521
55	280MB	MMG-G	6	1952	200	130	130	776	830	786	9.5	6	23	197	90	960	635	1595
75	315SB	MMG-G	6	2178	200	130	130	889	830	786	9.5	6	23	197	27	960	900	1860
90	315MB	MMG-G	6	2178	200	130	130	889	830	786	9.5	6	23	197	77	960	960	1920

LS 250-200-575x2



LS 250-200-575x2 dimensional sketches





TM07 2170 3118

LS 250-200-575x2 dimensions

Motor				Pump dimensions [mm]							Motor dimensions [mm]			Distance between shaft ends [mm]	Shipping volume [m^3]
P2 [kW]	Frame size	Brand	Pole	CP	W	ØU	X	YY	HD/HS	HZ	LM	HM	ØMU	HT	
90	315MB	MMG-G	6	1496	800	79.38	600	750	450	850	1296	1288	80	9	8.791
110	315LB	MMG-G	6	1496	800	79.38	600	750	450	850	1396	1288	80	9	9.089
132	315LC	MMG-G	6	1496	800	79.38	600	750	450	850	1396	1288	80	9	9.089
160	355MB	MMG-G	6	1496	800	79.38	600	750	490	850	1605	1445	100	19	10.732
185	355MC	MMG-G	6	1496	800	79.38	600	750	490	850	1605	1445	100	19	10.732
200	355MD	MMG-G	6	1496	800	79.38	600	750	490	850	1605	1445	100	19	10.732
220	355ME	MMG-G	6	1496	800	79.38	600	750	490	850	1605	1445	100	19	10.732
250	355L	MMG-G	6	1496	800	79.38	600	750	490	850	1605	1445	100	19	10.732

Motor				Base frame dimensions [mm]									Overhang [mm]		Net weights [kg]		
P2 [kW]	Frame size	Brand	Pole	LB	LF2	HR	HL	LF1	HA	HE	HG	n	ØHH	Pump	Motor	Pump	Motor	Total
90	315MB	MMG-G	6	2276	200	190	150	938	1210	1166	9.5	6	23	306	219	1452	960	2412
110	315LB	MMG-G	6	2276	200	190	150	938	1210	1166	9.5	6	23	306	319	1452	1090	2542
132	315LC	MMG-G	6	2276	200	190	150	938	1210	1166	9.5	6	23	306	319	1452	1250	2702
160	355MB	MMG-G	6	2878	200	190	150	1239	1210	1158	10.5	6	23	306	-	1452	1750	3202
185	355MC	MMG-G	6	2878	200	190	150	1239	1210	1158	10.5	6	23	306	-	1452	1900	3352
200	355MD	MMG-G	6	2878	200	190	150	1239	1210	1158	10.5	6	23	306	-	1452	1950	3402
220	355ME	MMG-G	6	2878	200	190	150	1239	1210	1158	10.5	6	23	306	-	1452	2020	3472
250	355L	MMG-G	6	2878	200	190	150	1239	1210	1158	10.5	6	23	306	-	1452	2200	3652

13. Electrical data

The standard motor brands used for the LS pump range are MMG-G (IE3), MG (IE3) and Siemens (IE3 up to 630 kW) motors. Other motor makes are available on request.

For special voltage variants, please contact Grundfos.

Standard motor brands

MMG-G, 2-pole, IE3

Motor P2 [kW]	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos $\varphi_{1/1}$	η [%]	$I_{start}/I_{1/1}$ [%]
11	160M	3 x 380-420 D/660 Y	20.4 - 18.4 / 11.7	0.90	91.2	775
15	160M	3 x 380-420 D/660 Y	27.9 - 25.2 / 16	0.89	91.9	869
18.5	160L	3 x 380-420 D/660 Y	33.8 - 30.6 / 19.5	0.90	92.4	810
22	180M	3 x 380-420 D/660 Y	41.4 - 37.5 / 23.9	0.87	92.7	762
30	200L	3 x 380-420 D/660 Y	54.3 - 49.1 / 31.3	0.90	93.3	776
37	200L	3 x 380-420 D/660 Y	65.9 - 59.7 / 38	0.91	93.7	814
45	225MA	3 x 380-420 D/660 Y	79.9 - 72.3 / 46	0.91	94	810
55	250MA	3 x 380-420 D/660 Y	96.8 - 87.6 / 55.8	0.92	94.3	799
75	280SA	3 x 380-420 D/660 Y	148-134 / 85	0.82	94.7	777
90	280MA	3 x 380-420 D/660 Y	159-144 / 91.6	0.91	95	831
110	315SA	3 x 380-420 D/660 Y	195-176 / 112	0.90	95.2	760
132	315MA	3 x 380-420 D/660 Y	232-210 / 134	0.91	95.4	750
160	315L	3 x 380-420 D/660 Y	279-253 / 161	0.91	95.6	808

MMG-G, 4-pole, IE3

Motor P2 [kW]	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos $\varphi_{1/1}$	η [%]	$I_{start}/I_{1/1}$ [%]
1.5	90L	3 x 380-420 D/660 Y	3.6 - 3.2 / 2.1	0.75	85.3	768
2.2	100L	3 x 380-420 D/660 Y	4.8 - 4.3 / 2.7	0.81	86.7	730
3	100L	3 x 380-420 D/660 Y	6.7 - 6 / 3.8	0.78	87.7	774
4	112M	3 x 380-420 D/660 Y	8.4 - 7.6 / 4.8	0.82	88.6	717
5.5	132S	3 x 380-420 D/660 Y	11 - 9.9 / 6.3	0.85	89.6	739
7.5	132M	3 x 380-420 D/660 Y	14.9 - 13.5 / 8.6	0.85	90.4	776
11	160M	3 x 380-420 D/660 Y	21.8 - 19.7 / 12.5	0.84	91.4	774
15	160L	3 x 380-420 D/660 Y	29.3 - 26.5 / 16.9	0.85	92.1	809
18.5	180M	3 x 380-420 D/660 Y	37.2 - 33.7 / 21.4	0.82	92.6	763
22	180L	3 x 380-420 D/660 Y	44.4 - 40.1 / 25.5	0.81	93	747
30	200L	3 x 380-420 D/660 Y	56.6 - 51.2 / 32.6	0.86	93.6	827
37	225S	3 x 380-420 D/660 Y	70 - 63.4 / 40.3	0.86	93.9	759
45	225M	3 x 380-420 D/660 Y	85.9 - 77.7 / 49.5	0.85	94.2	735
55	250M	3 x 380-420 D/660 Y	101 - 91.3 / 58.1	0.88	94.6	782
75	280S	3 x 380-420 D/660 Y	141.1 - 128 / 81.2	0.85	95	768
90	280M	3 x 380-420 D/660 Y	171-155 / 98.5	0.84	95.2	778
110	315S	3 x 380-420 D/660 Y	196.8 - 178 / 113	0.89	95.4	750
132	315M	3 x 380-420 D/660 Y	235.7 - 213 / 136	0.89	95.6	740
160	315L	3 x 380-420 D/660 Y	283.5 - 257 / 163	0.90	95.8	743
200	315L	3 x 380-420 D/660 Y	351.7 - 318 / 202	0.90	96	748
250	315M	3 x 380-420 D/660 Y	445.6 - 403 / 257	0.89	96	775
315	355L	3 x 380-420 D/660 Y	557-504/321	0.90	96	737
355	355C	3 x 380-420 D/660 Y	624.3 - 565 / 359	0.90	96	730
400	315DB	3 x 380-420 D	739-669	0.86	96.2	724
425	355CB	3 x 380-420 D	789-714	0.85	96.2	715
450	355CB	3 x 380-420 D	836-756	0.85	96.2	757
475	355CB	3 x 380-420 D	873-790	0.86	96.2	726
500	355CB	3 x 380-420 D	917-830	0.86	96.3	767
530	355CB	3 x 380-420 D	973-880	0.86	96.3	744
560	400CB	3 x 380-420 D	1034-935	0.86	96.3	715
600	400CB	3 x 380-420 D	1101-996	0.86	96.3	696

MMG-G, 6-pole, IE3

Motor P2 [kW]	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos $\varphi_{1/1}$	η [%]	$I_{start}/I_{1/1}$ [%]
11	160L	3 x 380-420 D/660 Y	23.7 - 21.5 / 13.7	0.78	90.3	754
15	180L	3 x 380-420 D/660 Y	30.5 - 27.6 / 17.5	0.82	91.2	691
18.5	200L	3 x 380-420 D/660 Y	38.1 - 34.5 / 21.9	0.81	91.7	719
22	200L	3 x 380-420 D/660 Y	44.5 - 40.2 / 25.6	0.82	92.2	722
30	225M	3 x 380-420 D/660 Y	58.8 - 53.2 / 33.8	0.84	92.9	600
37	250M	3 x 380-420 D/660 Y	70.9 - 64.1 / 40.8	0.85	93.3	728
45	280S	3 x 380-420 D/660 Y	89.5 - 81 / 51.5	0.82	93.7	690
55	280M	3 x 380-420 D/660 Y	107 - 96.8 / 61.6	0.83	94.1	689
75	315S	3 x 380-420 D/660 Y	141-127 / 81.1	0.86	94.6	695
90	315M	3 x 380-420 D/660 Y	169-152 / 97	0.86	94.9	750
110	315L	3 x 380-420 D/660 Y	206-186 / 118	0.86	95.1	718
132	315L	3 x 380-420 D/660 Y	246-222 / 142	0.86	95.4	705
160	355M	3 x 380-420 D/660 Y	297-269 / 171	0.86	95.6	707
185	355M	3 x 380-420 D/660 Y	341-309 / 196	0.86	95.8	730
200	355M	3 x 380-420 D/660 Y	369-334 / 212	0.86	95.8	686
220	355M	3 x 380-420 D/660 Y	403-365 / 232	0.87	95.8	705
250	355L	3 x 380-420 D/660 Y	457-413 / 263	0.87	95.8	705
300	355C	3 x 380-420 D/660 Y	550-498 / 317	0.87	95.8	720

MG or Siemens, 2-pole, IE3

Motor P2 [kW]	Motor type	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos $\varphi_{1/1}$	η [%]	$I_{start}/I_{1/1}$ [%]
11	MG	160MB	3 x 380-415 D/660-690 Y	20.8 - 19.8 / 12.0 - 11.8	0.88 - 0.84	91.2	660-780
15	MG	160MD	3 x 380-415 D/660-690 Y	28.0 - 26.0 / 16.2 - 15.6	0.89 - 0.87	91.9	660-780
18.5	MG	160LB	3 x 380-415 D/660-690 Y	34.0 - 31.0 / 19.6 - 18.8	0.90 - 0.89	92.4	710-850
22	MG	180MB	3 x 380-415 D/660-690 Y	39.5 / 22.8	0.90	92.7	830-830
30	Siemens	200L	3 x 380-420 D/660-725 Y	56.0 - 51.0 / 32.0 - 29.5	0.86	93.3	660
37	Siemens	200L	3 x 380-420 D/660-725 Y	68.0 - 63.0 / 39.0 - 36.0	0.87	93.7	670
45	Siemens	225M	3 x 380-420 D/660-725 Y	82.0 - 75.0 / 47.5 - 43.5	0.89	94.0	690
55	Siemens	250M	3 x 380-420 D/660-725 Y	99.0 - 92.0 / 57.0 - 53.0	0.89	94.3	670
75	Siemens	280S	3 x 380-420 D/660-725 Y	134-126 / 77.0 - 72.0	0.89	94.7	680
90	Siemens	280M	3 x 380-420 D/660-725 Y	160-148 / 92.0 - 85.0	0.90	95.0	720

MG or Siemens, 4-pole, IE3

Motor P2 [kW]	Motor type	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos $\varphi_{1/1}$	η [%]	$I_{start}/I_{1/1}$ [%]
1.5	MG	90LC	380-415 D	3.55 - 3.65	0.75 - 0.68	85.3	730-790
2.2	MG	100LB	380-415 D	4.90	0.79 - 0.73	86.7	600-660
3	MG	100LC	380-415 D	6.30	0.82 - 0.76	87.7	700-770
4	MG	112MC	380-415 D	9.30	0.75 - 0.68	88.6	790-870
5.5	MG	132SB	3 x 380-415 D/660-690 Y	11.0 - 11.0 / 6.35 - 6.35	0.86 - 0.80	89.6	700-760
7.5	MG	132MB	3 x 380-415 D/660-690 Y	14.9 - 14.2 / 8.60 - 8.40	0.86 - 0.82	90.4	680-780
11	MG	160MB	3 x 380-415 D/660-690 Y	21.2 - 20.4 / 12.2 - 12.0	0.86 - 0.81	91.4	710-810
15	MG	160LC	3 x 380-415 D/660-690 Y	29.0 - 28.0 / 16.8 - 16.4	0.86 - 0.82	92.1	760-870
18.5	Siemens	180M	3 x 380-420 D/660-725 Y	37.0 - 33.5 / 21.6 - 19.6	0.82	92.6	690
22	Siemens	180L	3 x 380-420 D/660-725 Y	42.5 - 40.5 / 24.6 - 23.6	0.83	93.0	680
30	Siemens	200L	3 x 380-420 D/660-725 Y	57.5 - 54.0 / 33.5 - 31.5	0.84	93.6	690
37	Siemens	225S	3 x 380-420 D/660-725 Y	69.0 - 64.0 / 39.5 - 37.0	0.86	93.9	640
45	Siemens	225M	3 x 380-420 D/660-725 Y	83.0 - 77.0 / 48.0 - 44.5	0.86	94.2	640
55	Siemens	250M	3 x 380-420 D/660-725 Y	100 - 93.0 / 58.0 - 54.0	0.87	94.6	680
75	Siemens	280S	3 x 380-420 D/660-725 Y	140-130 / 80.0 - 74.0	0.86	95.0	690
90	Siemens	280M	3 x 380-420 D/660-725 Y	166-152 / 95.0 - 88.0	0.87	95.2	720
110	Siemens	315S	3 x 380-420 D/660-725 Y	200-186 / 116-108	0.87	95.4	680
132	Siemens	315M	3 x 380-420 D/660-725 Y	240-220 / 140-128	0.87	95.6	730
160	Siemens	315L	3 x 380-420 D/660-725 Y	285-265 / 166-154	0.87	95.8	730
200	Siemens	315L	3 x 380-420 D/660-725 Y	355-330 / 206-190	0.88	96.0	740
250	Siemens	315L	3 x 380-420 D/660-725 Y	455-420 / 260-240	0.87	96.0	770
315	Siemens	315L	3 x 380-420 D/660-725 Y	570-550 / 330-320	0.86	96.0	790
355	Siemens	315L	3 x 380-420 D/660-725 Y	650-610 / 375-355	0.85	96.1	650
400	Siemens	355	3 x 380-420 D/660-725 Y	690-690 / 400-400	0.87	96.4	650
500	Siemens	355	3 x 380-420 D/660-725 Y	850-850 / 490-490	0.88	96.7	650
560	Siemens	400	3 x 380-420 D/660-725 Y	950-950 / 550-550	0.88	96.7	650
630	Siemens	400	3 x 380-420 D/660-725 Y	1060-1060 / 610-620	0.88	96.9	680

MG or Siemens, 6-pole, IE3

Motor P2 [kW]	Motor type	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos φ 1/1	η [%]	$I_{start}/I_{1/1}$ [%]
11	Siemens	160L	3 x 380-420 D/660-725 Y	23.2 - 21.0 / 13.4 - 12.2	0.80	90.3	660
15	Siemens	180L	3 x 380-420 D/660-725 Y	31.0 - 28.0 / 17.8 - 16.6	0.80	91.2	590
18.5	Siemens	200L	3 x 380-420 D/660-725 Y	38.0 - 36.5 / 22.0 - 21.0	0.79	91.7	560
22	Siemens	200L	3 x 380-420 D/660-725 Y	45.0 - 42.5 / 26.0 - 24.6	0.79	92.2	560
30	Siemens	225M	3 x 380-420 D/660-725 Y	58.0 - 55.0 / 33.5 - 32.0	0.83	92.9	660
37	Siemens	250M	3 x 380-420 D/660-725 Y	70.0 - 65.0 / 40.5 - 37.5	0.85	93.3	700
45	Siemens	280S	3 x 380-420 D/660-725 Y	86.0 - 79.0 / 49.5 - 45.5	0.85	93.7	680
55	Siemens	280M	3 x 380-420 D/660-725 Y	106 - 97.0 / 61.0 - 56.0	0.85	94.1	720
75	Siemens	315S	3 x 380-420 D/660-725 Y	142-134 / 81.0 - 77.0	0.84	94.6	730
90	Siemens	315M	3 x 380-420 D/660-725 Y	168-156 / 97.0 - 90.0	0.85	94.9	670
110	Siemens	315L	3 x 380-420 D/660-725 Y	206-194 / 118-112	0.84	95.1	720
132	Siemens	315L	3 x 380-420 D/660-725 Y	250-236 / 144-136	0.84	95.4	720
160	Siemens	315L	3 x 380-420 D/660-725 Y	300-290 / 174-168	0.83	95.6	770
200	Siemens	315L	3 x 380-420 D/660-725 Y	365-345 / 210-200	0.83	95.8	770
250	Siemens	315L	3 x 380-420 D/660-725 Y	450-440 / 260-250	0.84	95.8	620
315	Siemens	315L	3 x 380-420 D/660-725 Y	590-540 / 340-310	0.85	95.9	650

Other motor brands

The tables show the electrical data of MMG-H (Wonder) IE2 and IE3 motors.

MMG-H, 2-pole, IE2

P2 [kW]	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos φ 1/1	η [%]	$I_{start}/I_{1/1}$ [%]
11	160MA	380-420 D/660-725 Y	20.6 - 18.6 / 11.8 - 10.8	0.90	89.9	750-750
15	160MB	380-420 D/660-725 Y	28.0 - 25.5 / 16.0 - 14.6	0.90	90.7	750-750
18.5	160L	380-420 D/660-725 Y	34.0 - 30.5 / 19.6 - 17.8	0.91	91.2	750-750
22	180M	380-420 D/660-725 Y	40.0 - 36.5 / 23.2 - 21.0	0.91	91.5	750-750
30	200LA	380-420 D/660-725 Y	54.5 - 49.0 / 31.5 - 28.5	0.91	92.2	750-750
37	200LB	380-420 D/660-725 Y	66.5 - 60.5 / 38.5 - 35.0	0.91	92.6	750-750
45	225M	380-420 D/660-725 Y	80.5 - 73.0 / 46.5 - 42.5	0.91	93.1	750-750
55	250MA	380-420 D/660-725 Y	99.5 - 90.0 / 57.0 - 52.0	0.90	93.4	750-750
75	280SA	380-420 D/660-725 Y	134-122 / 76.5 - 70.0	0.91	94.0	750-750
90	280MA	380-420 D/660-725 Y	160-144 / 91.5 - 83.5	0.91	94.5	750-750

MMG-H, 4-pole, IE2

P2 [kW]	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos φ 1/1	η [%]	$I_{start}/I_{1/1}$ [%]
7.5	132MA	380-420 D/660-725 Y	15.4 - 14.0 / 8.90 - 8.10	0.83	89.0	820-820
11	160MA	380-420 D/660-725 Y	21.8 - 19.8 / 12.6 - 11.4	0.85	90.3	700-700
15	160L	380-420 D/660-725 Y	29.0 - 26.5 / 16.8 - 15.2	0.86	91.0	750-750
18.5	180MA	380-420 D/660-725 Y	36.0 - 32.5 / 20.6 - 18.8	0.86	91.3	750-750
22	180L	380-420 D/660-725 Y	42.5 - 38.5 / 24.4 - 22.2	0.86	91.8	750-750
30	200LA	380-420 D/660-725 Y	55.5 - 50.0 / 32.0 - 29.0	0.89	92.5	720-720
37	225S	380-420 D/660-725 Y	69.0 - 62.5 / 39.5 - 36.0	0.87	93.9	720-720
45	225M	380-420 D/660-725 Y	84.0 - 76.0 / 48.5 - 44.0	0.87	93.3	720-720
55	250M	380-420 D/660-725 Y	100 - 90.5 / 57.5 - 52.5	0.89	93.9	720-720
75	250MA	380-420 D/660-725 Y	134-126 / 80.0 - 73.0	0.87	94.1	720-720
90	280MA	380-420 D/660-725 Y	168-152 / 96.0 - 87.5	0.87	94.3	720-720
110	315S	380-420 D/660-725 Y	200-182 / 116-106	0.88	94.8	690-690
132	315M	380-420 D/660-725 Y	240-218 / 138-126	0.88	94.9	690-690
160	315L	380-420 D/660-725 Y	290-265 / 168-152	0.88	95.2	690-690
200	315L	380-420 D/660-725 Y	365-330 / 210-190	0.88	95.2	690-690
250	355M	380-420 D/660-725 Y	440-395 / 250-230	0.91	95.3	710-710
315	355L	380-420 D/660-725 Y	560-5100 / 325-295	0.89	95.7	690-690

MMG-H, 6-pole, IE2

P2 [kW]	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos $\varphi_{1/1}$	η [%]	$I_{start}/I_{1/1}$ [%]
11	160L	380-420 D/660-725 Y	24.2 - 21.8 / 13.8 - 12.6	0.78	88.9	640-640
15	180L	380-420 D/660-725 Y	31.5 - 28.5 / 18.0 - 16.4	0.81	89.9	700-700
18.5	200LA	380-420 D/660-725 Y	38.5 - 34.5 / 22.0 - 20.0	0.81	90.5	700-700
22	200LB	380-420 D/660-725 Y	45.5 - 41.0 / 26.0 - 23.8	0.81	90.9	700-700
30	225M	380-420 D/660-725 Y	59.0 - 53.5 / 34.0 - 31.0	0.84	91.8	700-700
37	250M	380-420 D/660-725 Y	70.0 - 63.5 / 40.5 - 36.5	0.87	92.3	700-700
45	280S	380-420 D/660-725 Y	85.5 - 77.5 / 49.5 - 45.0	0.86	92.8	700-700
55	280MA	380-420 D/660-725 Y	104 - 94.5 / 60.0 - 54.5	0.86	93.2	700-700
75	315S	380-420 D/660-725 Y	142-130 / 82.5 - 75.0	0.85	93.8	730-730
90	315M	380-420 D/660-725 Y	170-154 / 98.5 - 89.5	0.85	94.2	700-700
110	315L	380-420 D/660-725 Y	206-186 / 118-108	0.86	94.4	670-670
132	315L	380-420 D/660-725 Y	246-224 / 142-130	0.86	94.6	670-670

MMG-H, 2-pole, IE3

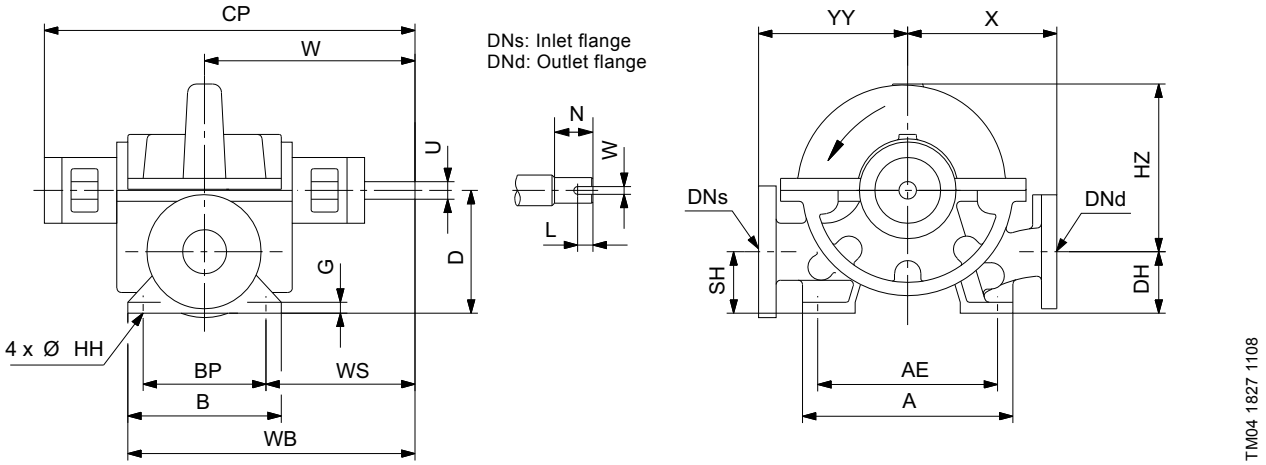
P2 [kW]	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos $\varphi_{1/1}$	η [%]	$I_{start}/I_{1/1}$ [%]
11	160MA	3 x 380-420 D/660-725 Y	20.4 - 18.4 / 11.6 - 10.6	0.9	91.2	760-760
15	160MB	3 x 380-420 D/660-725 Y	27.5 - 24.8 / 15.8 - 14.4	0.9	91.9	770-770
18.5	160L	3 x 380-420 D/660-725 Y	33.5 - 30.5 / 19.2 - 17.6	0.9	92.4	820-820
22	180M	3 x 380-420 D/660-725 Y	40.0 - 36.0 / 23.0 - 20.8	0.9	92.7	870-870
30	200LA	3 x 380-420 D/660-725 Y	55.0 - 49.5 / 31.5 - 29.0	0.9	93.3	900-900
37	200LB	3 x 380-420 D/660-725 Y	66.5 - 60.5 / 38.5 - 35.0	0.9	93.7	900-900
45	225MA	3 x 380-420 D/660-725 Y	80.0 - 72.5 / 46.0 - 42.0	0.9	94.0	830-830
55	250MA	3 x 380-420 D/660-725 Y	102 - 91.0 / 58.0 - 53.0	0.9	94.3	720-720
75	280SA	3 x 380-420 D/660-725 Y	132-120 / 76.0 - 69.5	0.9	94.7	800-800
90	280MA	3 x 380-420 D/660-725 Y	156-142 / 90.0 - 82.0	0.9	95.0	810-810

MMG-H, 4-pole, IE3

P2 [kW]	Frame size	Standard voltage [V]	$I_{1/1}$ [A]	Cos $\varphi_{1/1}$	η [%]	$I_{start}/I_{1/1}$ [%]
7.5	132MA	3 x 380-420 Δ/660-725 Y	15.4 - 14.0 / 8.85 - 8.05	0.8	90.4	820-820
11	160MA	3 x 380-420 Δ/660-725 Y	21.2 - 19.2 / 12.2 - 11.2	0.9	91.4	760-760
15	160L	3 x 380-420 Δ/660-725 Y	28.5 - 25.5 / 16.4 - 14.8	0.9	92.1	850-850
18.5	180MA	3 x 380-420 Δ/660-725 Y	35.0 - 31.5 / 20.0 - 18.2	0.9	92.6	690-690
22	180L	3 x 380-420 Δ/660-725 Y	41.5 - 37.5 / 23.8 - 21.8	0.9	93.0	680-680
30	200LA	3 x 380-420 Δ/660-725 Y	56.0 - 50.5 / 32.0 - 29.5	0.9	93.6	690-690
37	225S	3 x 380-420 Δ/660-725 Y	69.0 - 62.5 / 39.5 - 36.0	0.9	93.9	640-640
45	225M	3 x 380-420 Δ/660-725 Y	84.5 - 76.5 / 48.5 - 44.0	0.9	94.2	640-640
55	250M	3 x 380-420 Δ/660-725 Y	102 - 91.5 / 58.0 - 53.0	0.9	94.6	680-680
75	250MA	3 x 380-420 Δ/660-725 Y	140-126 / 80.5 - 73.0	0.9	95.0	690-690
90	280MA	3 x 380-420 Δ/660-725 Y	166-150 / 95.0 - 86.5	0.9	95.2	720-720
110	315S	3 x 380-420 Δ/660-725 Y	202-182 / 116-106	0.9	95.4	680-680
132	315M	3 x 380-420 Δ/660-725 Y	242-218 / 140-126	0.9	95.6	730-730
160	315L	3 x 380-420 Δ/660-725 Y	285-260 / 164-150	0.9	95.8	730-730
200	315L	3 x 380-420 Δ/660-725 Y	355-320 / 204-186	0.9	96.0	740-740

14. Bare shaft pump

Dimensional sketches



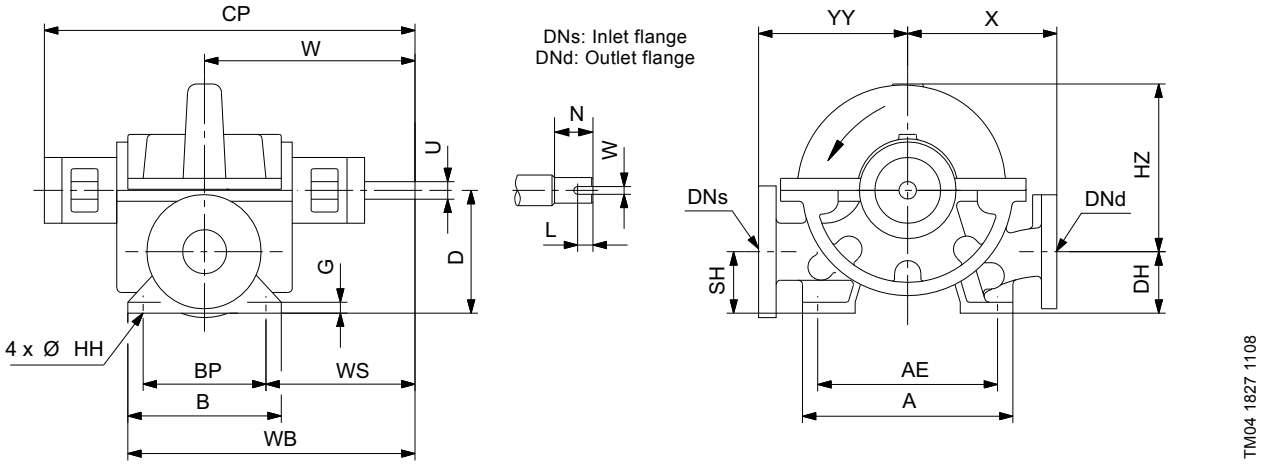
Dimensions

All dimensions are in mm, except for those which have necessary inch tolerances (1 inch = 25.4 mm).
For actual pump flange dimensions, see pages 127-128. For counterflange dimensions, see page 131.

Pump size	DNs	DNd	N		SH	U (without sleeve)		U (with sleeve)		W	WB	WS	Net weight [kg]
			Sealed	Packed		[inch]	[mm]	[inch]	[mm]				
LS 65-50-241	65	50	95	65	88.9	0.945	24	1.00	25.40	305	416	216	73
LS 65-50-330	65	50	95	65	88.9	0.945	24	1.00	25.40	305	416	216	95
LS 100-80-241	100	80	95	65	102	0.945	24	1.00	25.40	305	416	216	80
LS 100-80-356	100	80	100	75	127	1.339	34	1.50	38.10	368	508	251	177
LS 125-100-279	125	100	100	63	124	1.339	34	1.50	38.10	368	508	251	164
LS 125-100-305	125	100	100	63	124	1.339	34	1.50	38.10	368	508	251	164
LS 125-100-381	125	100	100	63	159	1.339	34	1.50	38.10	368	543	216	255
LS 125-100-388	125	100	100	63	159	1.50	38.10	1.50	38.10	368	543	216	255
LS 150-125-305	150	125	63	63	165	1.339	34	1.50	38.10	419	572	289	268
LS 150-125-381	150	125	63	63	165	1.339	34	1.50	38.10	432	584	302	318
LS 200-150-305	200	150	63	63	165	1.339	34	1.50	38.10	432	584	302	411
LS 200-150-381	200	150	87	87	184	1.75	44.45	1.75	44.45	508	737	298	455
LS 200-150-483[1)]	200	150	85	90	171	1.75	44.45	1.75	44.45	489	667	337	534
LS 200-150-483[2)]	200	150	85	85	171	2.00	50.80	2.00	50.80	489	667	337	534
LS 200-150-508	200	150	98	98	171	2.13	53.98	2.13	53.98	546	724	394	545
LS 250-200-305	250	200	87	87	171	1.75	44.45	1.75	44.45	508	705	330	511
LS 250-200-381	250	200	87	87	178	1.75	44.45	1.75	44.45	518	765	295	568
LS 300-200-489	300	200	135	147	198	2.50	63.50	2.50	63.50	723	994	519	727
LS 300-250-305	300	250	87	87	203	1.75	44.45	1.75	44.45	530	778	308	636
LS 300-250-381	300	250	145	149	254	2.25	57.15	2.25	57.15	600	778	448	991
LS 350-250-498	350	250	165	205	246	3.13	79.38	3.13	79.38	797	1049	594	1436
LS 350-250-630	350	250	160	219	305	3.13	79.38	3.13	79.38	799	1049	594	1905
LS 350-300-508	350	300	112	121	313	2.50	63.50	2.50	63.50	749	994	546	1318
LS 400-350-397	400	350	142	147	320	2.50	63.50	2.50	63.50	723	1052	436	1460
LS 450-350-397	450	350	105	105	285	2.50	63.50	2.50	63.50	773.5	1102.5	486	1460

1) For 55-90 kW, 4-pole and 15-45 kW, 6-pole.
2) For values above 90 kW, 4-pole.

Dimensional sketches



Dimensions

All dimensions are in mm, except for those which have necessary inch tolerances (1 inch = 25.4 mm).

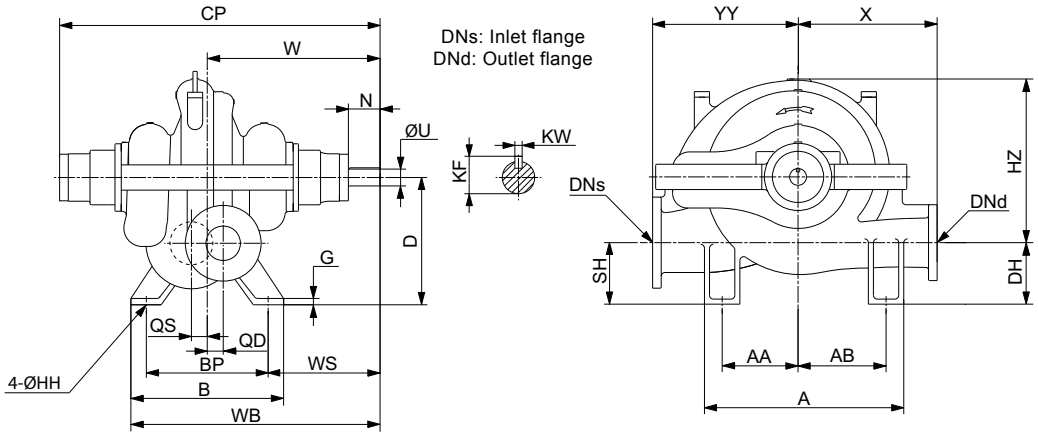
For actual pump flange dimensions, see pages 127-128. For counterflange dimensions, see page 131.

Pump size	DNs	DNd	A	AE	B	BP	X	YY	CP		D	DH	G	ØHH	HZ	Key (WxL)	
									Sealed	Packed						[inch]	[mm]
LS 65-50-241	65	50	305	260	222	178	216	216	510	545	178	89	16	19	270	0.31 x 2.17	8 x 55
LS 65-50-330	65	50	305	260	222	178	254	254	510	545	216	89	16	19	355	0.31 x 2.17	8 x 55
LS 100-80-241	100	80	305	260	222	178	279	279	510	545	203	102	19	19	290	0.31 x 2.17	8 x 55
LS 100-80-356	100	80	305	260	279	235	305	305	644	687	254	127	22	19	380	0.39 x 2.2	10 x 56
LS 125-100-279	125	100	305	260	283	235	305	305	631	674	257	124	22	19	370	0.39 x 2.2	10 x 56
LS 125-100-305	125	100	305	260	283	235	305	305	631	674	257	124	22	19	370	0.39 x 2.2	10 x 56
LS 125-100-381	125	100	305	260	349	305	357	357	631	674	330	159	25	19	470	0.39 x 2.2	10 x 56
LS 125-100-388	125	100	305	260	349	305	357	357	631	674	330	159	25	19	470	0.38 x 2.25	9.65 x 57.15
LS 150-125-305	150	125	305	260	305	260	330	330	775	775	368	165	25	19	475	0.39 x 2.2	10 x 56
LS 150-125-381	150	125	305	260	305	260	356	381	801	801	410	165	25	19	550	0.39 x 2.2	10 x 56
LS 200-150-305	200	150	305	260	305	260	356	406	801	801	406	165	25	19	530	0.39 x 2.2	10 x 56
LS 200-150-381	200	150	311	260	457	419	381	406	929	929	464	184	29	19	605	0.38 x 2.25	9.65 x 57.15
LS 200-150-483[1]	200	150	305	260	356	305	432	432	888	888	432	171	25	19	615	0.38 x 2.25	9.65 x 57.15
LS 200-150-483[2]	200	150	305	260	356	305	432	432	899	899	432	171	25	19	615	0.38 x 3.00	9.65 x 76.20
LS 200-150-508	200	150	318	260	356	305	432	483	995	995	451	171	25	19	660	0.50 x 3.00	12.70 x 76.20
LS 250-200-305	250	200	305	260	394	356	406	432	929	929	438	171	29	19	580	0.38 x 2.25	9.65 x 57.15
LS 250-200-381	250	200	324	260	495	445	483	483	949	949	483	178	29	19	655	0.38 x 2.25	9.65 x 57.15
LS 300-200-489	300	200	648	502	489	406	414	559	1306	1306	529	198	35	29	745	0.63 x 3.00	16.00 x 76.20
LS 300-250-305	300	250	324	260	495	445	495	495	974	974	503	203	29	19	645	0.38 x 2.25	9.65 x 57.15
LS 300-250-381	300	250	457	381	356	305	432	584	1051	1051	508	254	29	22	630	0.50 x 2.75	12.70 x 69.85
LS 350-250-498	350	250	648	502	489	406	508	660	1403	1403	586	246	35	29	785	0.75 x 4.75	19.05 x 120.65
LS 350-250-630	350	250	648	502	489	406	610	711	1377	1377	635	305	35	29	820	0.75 x 4.75	19.05 x 120.65
LS 350-300-508	350	300	648	502	489	406	584	711	1377	1377	643	313	35	29	790	0.63 x 3.00	16.00 x 76.20
LS 400-350-397	400	350	790	610	657	575	550	650	1299	1299	670	320	40	23	800	0.63 x 3.00	16.00 x 76.20
LS 450-350-397	450	350	790	610	655	575	545	625	1400	1400	650	285	35	33	730	0.63 x 3.00	16.00 x 76.20

[1] For 55-90 kW, 4-pole and 15-45 kW, 6-pole.

[2] For values above 90 kW, 4-pole.

Dimensional sketches, LS double stage



Dimensions

All dimensions are in mm, except for those which have necessary inch tolerances (1 inch = 25.4 mm).

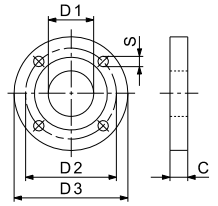
Pump size	DNs	DNd	HZ	A	AA	AB	D	BP	B	DH/SH	W	WS	ØHH
LS 125-100-370x2	125	100	565	520	200	200	350	210	260	140	540	399	24
LS 150-125-415x2	150	125	632	520	200	200	400	300	360	150	575	385	24
LS 200-150-475x2	200	150	685	740	300	300	500	460	580	240	615	385	28
LS 250-200-575x2	250	200	850	1010	500	350	600	620	720	290	800	490	28

Pump size	YY	X	G	U		KW	KF	N	QS	QD	CP	WB
				[mm]	[inch]							
LS 125-100-370x2	350	340	20	44.45	1.75	9.58	48.6	95	107.5	37	980	778
LS 150-125-415x2	370	365	20	44.45	1.75	9.58	48.6	110	100	40	1059	855
LS 200-150-475x2	575	550	30	57.15	2.25	12.7	62.8	100	65	65	1142	905
LS 250-200-575x2	750	600	30	79.38	3.125	19.05	87.7	125	75	75	1496	1160

Standard pump flange dimensions

PN 16

Some pump flanges have tapped holes due to the pump construction.



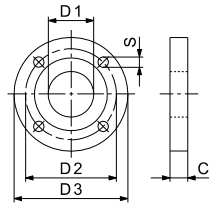
TM04 4474 1309

			EN 1092-2 (DIN 2501) PN 16							
			Dimensions [mm]						Number of free holes (FH)	Number of tapped holes (TH)
Pump type	Flange size		D1	D2	D3	C	S_{FH}	S_{TH}		
LS 65-50-241	DNs	65	76.2	145	191	25.4	19	-	4	-
	DNd	50	50.8	125	165	22.2	19	-	4	-
LS 65-50-330	DNs	65	76.2	145	191	25.4	19	-	4	-
	DNd	50	50.8	125	165	22.2	19	-	4	-
LS 100-80-241	DNs	100	102	180	254	31.8	19	-	8	-
	DNd	80	76.2	160	210	28.6	19	-	8	-
LS 100-80-356	DNs	100	102	180	254	31.8	19	-	8	-
	DNd	80	76.2	160	210	28.6	19	-	8	-
LS 125-100-279	DNs	125	127	210	279	34.9	19	-	8	-
	DNd	100	102	180	254	31.8	19	-	8	-
LS 125-100-305	DNs	125	127	210	279	34.9	19	-	8	-
	DNd	100	102	180	254	31.8	19	-	8	-
LS 125-100-381	DNs	125	127	210	279	34.9	19	-	8	-
	DNd	100	102	180	254	31.8	19	-	8	-
LS 125-100-388	DNs	125	127	210	279	34.9	19	-	8	-
	DNd	100	102	180	254	31.8	19	-	8	-
LS 150-125-305	DNs	150	152	240	318	36.5	23	M20	6	2
	DNd	125	127	210	279	34.9	19	-	8	-
LS 150-125-381	DNs	150	152	240	318	36.5	23	-	8	-
	DNd	125	127	210	279	34.9	19	-	8	-
LS 200-150-305	DNs	200	203	295	381	41.3	23	M20	10	2
	DNd	150	152	240	318	36.5	23	-	8	-
LS 200-150-381	DNs	200	203	295	381	41.3	23	M20	8	4
	DNd	150	152	240	318	36.5	23	-	8	-
LS 200-150-483	DNs	200	203	295	381	41.4	-	M20	-	12
	DNd	150	152	240	318	36.6	23	-	4	4
LS 200-150-508	DNs	200	203	295	381	41.3	23	M20	8	4
	DNd	150	152	240	318	36.5	23	-	8	-
LS 250-200-305	DNs	250	254	355	445	47.6	-	M24	-	12
	DNd	200	203	295	381	41.3	23	M20	8	4
LS 250-200-381	DNs	250	254	355	445	47.8	26	-	12	-
	DNd	200	203	295	381	41.4	22	-	12	-
LS 300-200-489	DNs	300	305	410	521	50.8	28	-	12	-
	DNd	200	203	295	381	41.3	23	-	12	-
LS 300-250-305	DNs	300	305	410	521	50.8	28	M24	10	2
	DNd	250	254	355	445	47.6	28	-	12	-
LS 300-250-381	DNs	300	305	410	521	50.8	28	M24	8	4
	DNd	250	254	355	445	47.6	28	-	12	-
LS 350-250-498	DNs	350	356	470	584	53.9	28	-	16	-
	DNd	250	254	355	445	47.6	28	-	12	-
LS 350-250-630	DNs	350	356	470	584	54.0	28	-	16	-
	DNd	250	254	355	445	47.6	-	M24	-	12
LS 350-300-508	DNs	350	356	470	584	54.0	28	-	16	-
	DNd	300	305	410	521	50.8	28	-	12	-
LS 400-350-397	DNs	400	400	525	648	50.0	-	M27	-	16
	DNd	350	350	470	584	45.0	28	-	16	-
LS 450-350-397	DNs	450	450	585	640	40.0	31	M27	14	6
	DNd	350	350	470	584	45.0	28	-	16	-

Optional pump flange dimensions

PN 10

Some pump flanges have tapped holes due to the pump construction.

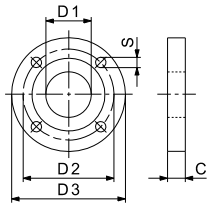


TM04 4474 1309

			EN 1092-2 (DIN 2501) PN 10							
			Dimensions [mm]						Number of free holes (FH)	Number of tapped holes (TH)
Pump type	Flange size		D1	D2	D3	C	S_{FH}	S_{TH}		
LS 65-50-241	DNs	65	76.2	145	191	25.4	19	-	4	-
	DNd	50	50.8	125	165	22.2	19	-	4	-
LS 65-50-330	DNs	65	76.2	145	191	25.4	19	-	4	-
	DNd	50	50.8	125	165	22.2	19	-	4	-
LS 100-80-241	DNs	100	102	180	254	31.8	19	-	8	-
	DNd	80	76.2	160	210	28.6	19	-	8	-
LS 100-80-356	DNs	100	102	180	254	31.8	19	-	8	-
	DNd	80	76.2	160	210	28.6	19	-	8	-
LS 125-100-279	DNs	125	127	210	279	34.9	19	-	8	-
	DNd	100	102	180	254	31.8	19	-	8	-
LS 125-100-305	DNs	125	127	210	279	34.9	19	-	8	-
	DNd	100	102	180	254	31.8	19	-	8	-
LS 125-100-381	DNs	125	127	210	279	34.9	19	-	8	-
	DNd	100	102	180	254	31.8	19	-	8	-
LS 125-100-388	DNs	125	127	210	279	34.9	19	-	8	-
	DNd	100	102	180	254	31.8	19	-	8	-
LS 150-125-305	DNs	150	152	240	318	36.5	23	M20	6	2
	DNd	125	127	210	279	34.9	19	-	8	-
LS 150-125-381	DNs	150	152	240	318	36.5	23	-	8	-
	DNd	125	127	210	279	34.9	19	-	8	-
LS 200-150-305	DNs	200	203	295	381	41.3	23	-	8	-
	DNd	150	152	240	318	36.5	23	-	8	-
LS 200-150-381	DNs	200	203	295	381	41.3	23	-	8	-
	DNd	150	152	240	318	36.5	23	-	8	-
LS 200-150-483	DNs	200	203	295	381	41.4	-	M20	-	8
	DNd	150	152	240	318	36.6	23	M20	4	4
LS 200-150-508	DNs	200	203	295	381	41.3	23	M20	4	4
	DNd	150	152	240	318	36.5	23	-	8	-
LS 250-200-305	DNs	250	254	350	445	47.6	-	M20	-	12
	DNd	200	203	295	381	41.3	23	M20	4	4
LS 250-200-381	DNs	250	254	350	445	47.8	23	-	12	-
	DNd	200	203	295	381	41.4	23	-	8	-
LS 300-200-489	DNs	300	305	400	521	50.8	23	-	12	-
	DNd	200	203	295	381	41.3	23	-	8	-
LS 300-250-305	DNs	300	305	400	521	50.8	23	M20	10	2
	DNd	250	254	350	445	47.6	23	-	12	-
LS 300-250-381	DNs	300	305	400	521	50.8	23	M20	8	4
	DNd	250	254	350	445	47.6	23	-	12	-
LS 350-250-498	DNs	350	356	460	584	53.9	23	-	16	-
	DNd	250	254	350	445	47.6	23	-	12	-
LS 350-250-630	DNs	350	356	460	584	54.0	23	-	16	-
	DNd	250	254	350	445	47.6	-	M20	-	12
LS 350-300-508	DNs	350	356	460	584	54.0	23	-	16	-
	DNd	300	305	400	521	50.8	23	-	12	-
LS 400-350-397	DNs	400	400	515	648	50.0	-	M24	-	16
	DNd	350	350	460	584	45.0	23	-	16	-
LS 450-350-397	DNs	450	450	565	615	40.0	28	M24	16	4
	DNd	350	350	460	584	45.0	23	-	16	-

ANSI 125

Some pump flanges have tapped holes due to the pump construction.

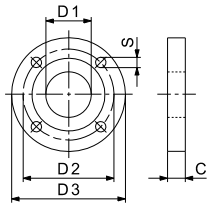


TM04 4474 1309

Pump type	Nominal pipe size	ANSI 125 Dimensions												Number of free holes (FH)	Number of tapped holes (TH)
		D1		D2		D3		C		S_{FH}		S_{TH}			
		[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]	[mm]	[inch]				
LS 65-50-241	NPSs 2 1/2	76.2	3.0	140	5.50	191	7.50	25.4	1.00	19.1	0.75	-		4	-
	NPSd 2	50.8	2.0	121	4.75	165	6.50	22.2	0.88	19.1	0.75	-		4	-
LS 65-50-330	NPSs 2 1/2	76.2	3.0	140	5.50	191	7.50	25.4	1.00	19.1	0.75	-		4	-
	NPSd 2	50.8	2.0	121	4.75	165	6.50	22.2	0.88	19.1	0.75	-		4	-
LS 100-80-241	NPSs 4	102	4.0	191	7.50	254	10.00	31.8	1.25	19.1	0.75	-		8	-
	NPSd 3	76.2	3.0	152	6.00	210	8.25	28.6	1.13	19.1	0.75	-		4	-
LS 100-80-356	NPSs 4	102	4.0	191	7.50	254	10.00	31.8	1.25	-	-	5/8-11 UNC		-	8
	NPSd 3	76.2	3.0	152	6.00	210	8.25	28.6	1.13	19.1	0.75	-		4	-
LS 125-100-279	NPSs 5	127	5.0	216	8.50	279	11.00	34.9	1.38	22.4	0.88	3/4-10 UNC		6	2
	NPSd 4	102	4.0	191	7.50	254	10.00	31.8	1.25	19.1	0.75	-		8	-
LS 125-100-305	NPSs 5	127	5.0	216	8.50	279	11.00	34.9	1.38	22.4	0.88	3/4-10 UNC		6	2
	NPSd 4	102	4.0	191	7.50	254	10.00	31.8	1.25	19.1	0.75	-		8	-
LS 125-100-381	NPSs 5	127	5.0	216	8.50	279	11.00	34.9	1.38	22.4	0.88	3/4-10 UNC		4	4
	NPSd 4	102	4.0	191	7.50	254	10.00	31.8	1.25	19.1	0.75	-		8	-
LS 125-100-388	NPSs 5	127	5.0	216	8.50	279	11.00	34.9	1.38	22.4	0.88	3/4-10 UNC		4	4
	NPSd 4	102	4.0	191	7.50	254	10.00	31.8	1.25	19.1	0.75	-		8	-
LS 150-125-305	NPSs 6	152	6.0	241	9.50	318	12.50	36.5	1.44	-	-	3/4-10 UNC		-	8
	NPSd 5	127	5.0	216	8.50	279	11.00	34.9	1.38	22.4	0.88	-		8	-
LS 150-125-381	NPSs 6	152	6.0	241	9.50	318	12.50	36.5	1.44	22.4	0.88	-		8	-
	NPSd 5	127	5.0	216	8.50	279	11.00	34.9	1.38	22.4	0.88	-		8	-
LS 200-150-305	NPSs 8	203	8.0	298	11.75	381	15.00	41.3	1.63	22.4	0.88	-		8	-
	NPSd 6	152	6.0	241	9.50	318	12.50	36.5	1.44	22.4	0.88	-		8	-
LS 200-150-381	NPSs 8	203	8.0	298	11.75	381	15.00	41.3	1.63	22.4	0.88	3/4-10 UNC		4	4
	NPSd 6	152	6.0	241	9.50	318	12.50	36.5	1.44	22.4	0.88	-		8	-
LS 200-150-483	NPSs 8	203	8.0	298	11.75	381	15.00	41.4	1.63	-	-	3/4-10 UNC		-	8
	NPSd 6	152	6.0	241	9.50	318	12.50	36.6	1.44	22.4	0.88	-		8	-
LS 200-150-508	NPSs 8	203	8.0	298	11.75	381	15.00	41.3	1.63	22.4	0.88	-		8	-
	NPSd 6	152	6.0	241	9.50	318	12.50	36.5	1.44	22.4	0.88	-		8	-
LS 250-200-305	NPSs 10	254	10.0	362	14.25	445	17.50	47.6	1.88	25.4	1.00	-		12	-
	NPSd 8	203	8.0	298	11.75	381	15.00	41.3	1.63	22.4	0.88	-		8	-
LS 250-200-381	NPSs 10	254	10.0	362	14.25	445	17.50	47.8	1.88	25.4	1.00	-		12	-
	NPSd 8	203	8.0	298	11.75	381	15.00	41.4	1.63	22.4	0.88	-		8	-
LS 300-200-489	NPSs 12	305	12.0	432	17.00	521	20.50	50.8	2.00	25.4	1.00	-		12	-
	NPSd 8	203	8.0	298	11.75	381	15.00	41.4	1.63	22.4	0.88	-		8	-
LS 300-250-305	NPSs 12	305	12.0	432	17.00	521	20.50	50.8	2.00	25.4	1.00	-		12	-
	NPSd 10	254	10.0	362	14.25	445	17.50	47.6	1.88	25.4	1.00	-		12	-
LS 300-250-381	NPSs 12	305	12.0	432	17.00	521	20.50	50.8	2.00	25.4	1.00	-		12	-
	NPSd 10	254	10.0	362	14.25	445	17.50	47.6	1.88	25.4	1.00	-		12	-
LS 350-250-498	NPSs 14	356	14.0	476	18.75	584	23.00	53.9	2.12	28.5	1.12	-		12	-
	NPSd 10	254	10.0	362	14.25	445	17.50	47.6	1.88	25.4	1.00	-		12	-
LS 350-250-630	NPSs 14	356	14.0	476	18.75	584	23.00	54.0	2.13	28.5	1.12	-		12	-
	NPSd 10	254	10.0	362	14.25	445	17.50	47.6	1.88	25.4	1.00	-		12	-
LS 350-300-508	NPSs 14	356	14.0	476	18.75	584	23.00	54.0	2.13	28.5	1.12	-		12	-
	NPSd 12	305	12.0	432	17.00	521	20.50	50.8	2.00	25.4	1.00	-		12	-
LS 400-350-497	NPSs 16	400	15.7	540	21.25	648	25.51	50.0	1.97	28.5	1.12	1-8 UNC		12	4
	NPSd 14	350	13.8	476	18.75	584	22.99	45.0	1.77	28.5	1.12	-		12	-
LS 450-350-397	NPSs 18	458	18.0	578	22.75	635	25.00	40.0	1.57	31.75	1.25	1 1/8-7 UNC		12	4
	NPSd 14	350	13.8	476	18.75	584	22.99	45.0	1.77	28.5	1.12	-		12	-

ANSI 250

Some pump flanges have tapped holes due to the pump construction.



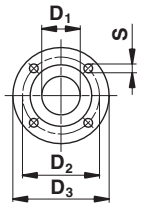
TM04 4474 1309

Pump type	Nominal pipe size		ANSI 250 Dimensions D1 [mm]	D1 [inch]	D2 [mm]	D2 [inch]	D3 [mm]	D3 [inch]	C [mm]	C [inch]	S_{FH} [mm]	S_{FH} [inch]	S_{TH}	Number of free holes (FH)	Number of tapped holes (TH)
LS 65-50-241	NPSs	2 1/2	76.2	3.0	149	5.88	191	7.50	25.4	1.00	22.4	0.88	3/4-10 UNC	6	2
	NPSd	2	50.8	2.0	127	5.00	165	6.50	22.2	0.88	19.1	0.75	5/8-11 UNC	6	2
LS 65-50-330	NPSs	2 1/2	76.2	3.0	149	5.88	191	7.50	25.4	1.00	22.4	0.88	-	4	-
	NPSd	2	50.8	2.0	127	5.00	165	6.50	22.2	0.88	19.1	0.75	-	4	-
LS 100-80-241	NPSs	4	102	4.0	200	7.88	254	10.00	31.8	1.25	22.4	0.88	-	8	-
	NPSd	3	76.2	3.0	168	6.62	210	8.25	28.6	1.13	22.4	0.88	-	8	-
LS 100-80-356	NPSs	4	102	4.0	200	7.88	254	10.00	31.8	1.25	22.4	0.88	3/4-10 UNC	6	2
	NPSd	3	76.2	3.0	168	6.62	210	8.25	28.6	1.13	22.4	0.88	-	8	-
LS 125-100-279	NPSs	5	127	5.0	235	9.25	279	11.00	34.9	1.38	22.4	0.88	3/4-10 UNC	6	2
	NPSd	4	102	4.0	200	7.88	254	10.00	31.8	1.25	22.4	0.88	-	8	-
LS 125-100-305	NPSs	5	127	5.0	235	9.25	279	11.00	34.9	1.38	22.4	0.88	3/4-10 UNC	6	2
	NPSd	4	102	4.0	200	7.88	254	10.00	31.8	1.25	22.4	0.88	-	8	-
LS 125-100-381	NPSs	5	127	5.0	235	9.25	279	11.00	34.9	1.38	22.4	0.88	3/4-10 UNC	4	4
	NPSd	4	102	4.0	200	7.88	254	10.00	31.8	1.25	22.4	0.88	-	8	-
LS 125-100-388	NPSs	5	127	5.0	235	9.25	279	11.00	34.9	1.38	22.4	0.88	3/4-10 UNC	4	4
	NPSd	4	102	4.0	200	7.88	254	10.00	31.8	1.25	22.4	0.88	-	8	-
LS 150-125-305	NPSs	6	152	6.0	270	10.62	318	12.50	36.5	1.44	22.4	0.88	3/4-10 UNC	10	2
	NPSd	5	127	5.0	235	9.25	279	11.00	34.4	1.35	22.4	0.88	-	8	-
LS 150-125-381	NPSs	6	152	6.0	270	10.62	318	12.50	36.5	1.44	22.4	0.88	-	12	-
	NPSd	5	127	5.0	235	9.25	279	11.00	34.4	1.35	22.4	0.88	-	8	-
LS 200-150-305	NPSs	8	203	8.0	330	13.00	381	15.00	41.3	1.63	25.4	1.00	-	12	-
	NPSd	6	152	6.0	270	10.62	318	12.50	36.5	1.44	22.4	0.88	-	12	-
LS 200-150-381	NPSs	8	203	8.0	330	13.00	381	15.00	41.3	1.63	25.4	1.00	-	12	-
	NPSd	6	152	6.0	270	10.62	318	12.50	36.5	1.44	22.4	0.88	-	12	-
LS 200-150-483	NPSs	8	203	8.0	330	13.00	381	15.00	41.4	1.63	-	-	7/8-9 UNC	-	12
	NPSd	6	152	6.0	270	10.62	318	12.50	36.6	1.44	22.4	0.88	-	12	-
LS 200-150-508	NPSs	8	203	8.0	330	13.00	381	15.00	41.3	1.63	25.4	1.00	-	12	-
	NPSd	6	152	6.0	270	10.62	318	12.50	36.5	1.44	22.4	0.88	-	12	-
LS 250-200-305	NPSs	10	254	10.0	387	15.25	445	17.50	47.6	1.88	28.6	1.13	1-8 UNC	12	4
	NPSd	8	203	8.0	330	13.00	381	15.00	41.3	1.63	25.4	1.00	7/8-9 UNC	8	4
LS 250-200-381	NPSs	10	254	10.0	387	15.25	445	17.50	47.8	1.88	28.6	1.13	-	16	-
	NPSd	8	203	8.0	330	13.00	381	15.00	41.4	1.63	25.4	1.00	-	12	-
LS 300-200-489	NPSs	12	305	12.0	451	17.75	521	20.50	50.8	2.00	31.8	1.25	-	16	-
	NPSd	8	203	8.0	330	13.00	381	15.00	41.4	1.63	25.4	1.00	-	12	-
LS 300-250-305	NPSs	12	305	12.0	451	17.75	521	20.50	50.8	2.00	31.8	1.25	-	16	-
	NPSd	10	254	10.0	387	15.25	445	17.50	47.6	1.88	28.5	1.12	-	16	-
LS 300-250-381	NPSs	12	305	12.0	451	17.75	521	20.50	50.8	2.00	31.8	1.25	-	16	-
	NPSd	10	254	10.0	387	15.25	445	17.50	47.6	1.88	28.5	1.12	-	16	-
LS 350-250-498	NPSs	14	356	14.0	514	20.25	584	23.00	53.9	2.12	31.8	1.25	-	20	-
	NPSd	10	254	10.0	387	15.25	445	17.50	47.6	1.88	28.5	1.12	-	16	-
LS 350-250-630	NPSs	14	356	14.0	514	20.25	584	23.00	54.0	2.13	31.8	1.25	-	20	-
	NPSd	10	254	10.0	387	15.25	445	17.50	47.6	1.88	28.5	1.12	-	16	-
LS 350-300-508	NPSs	14	356	14.0	514	20.25	584	23.00	54.0	2.13	31.8	1.25	-	20	-
	NPSd	12	305	12.0	451	17.75	521	20.50	50.8	2.00	31.8	1.25	-	16	-
LS 400-350-497	NPSs	16	400	15.7	572	22.50	648	25.51	50.0	1.97	35.1	1.38	1 1/8-7 UNC	16	4
	NPSd	14	350	13.8	514	20.25	584	22.99	45.0	1.77	31.8	1.25	1 1/8-7 UNC	16	4
LS 450-350-397	NPSs	18	458	18.0	592	23.31	711.2	28.00	50.0	1.97	35.0	1.38	1 1/4-7 UNC	24	-
	NPSd	14	350	13.8	514	20.25	584	22.99	45.0	1.77	31.8	1.25	1 1/8-7 UNC	16	4

Counterflange dimensions

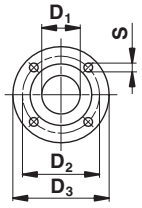
The following tables show standard dimensions for counterflanges.

Counterflanges to EN 1092-2 (DIN 2501), PN 16



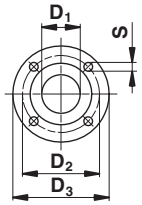
	Nominal flange diameter (DN) [mm]										
	50	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**450**
D1	50	65	80	100	125	150	200	250	300	350	450
D2	125	145	160	180	210	240	295	355	410	470	585
D3	165	185	200	220	250	285	340	400	455	520	640
S	4 x 19	4 x 19	8 x 19	8 x 19	8 x 19	8 x 23	12 x 23	12 x 28	12 x 28	16 x 28	20 x 16
Bolt size	M16	M16	M16	M16	M16	M20	M20	M24	M24	M24	M27

Counterflanges to EN 1092-2 (DIN 2501), PN 10



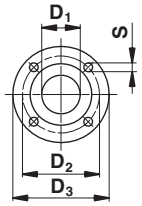
	Nominal flange diameter (DN) [mm]										
	50	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**450**
D1	50	65	80	100	125	150	200	250	300	350	450
D2	125	145	160	180	210	240	295	350	400	460	565
D3	165	185	200	220	250	285	340	395	445	505	615
S	4 x 19	4 x 19	8 x 19	8 x 19	8 x 19	8 x 23	8 x 23	12 x 23	12 x 23	16 x 23	20 x 16
Bolt size	M16	M16	M16	M16	M16	M20	M20	M20	M20	M20	M24

Counterflanges to ANSI 125



		Nominal flange diameter (NPS)										
		2	**2 1/2**	**3**	**4**	**5**	**6**	**8**	**10**	**12**	**14**	**18**
D1	**[mm]**	50.8	63.5	76.2	102	127	152	203	254	305	356	457.2
	[inch]	2	2.5	3	4	5	6	8	10	12	14	18
D2	**[mm]**	121	140	152	191	216	241	298	362	432	476	580
	[inch]	4.75	5.5	6	7.5	8.5	9.5	11.8	14.3	17	18.8	22.75
D3	**[mm]**	152	178	191	229	254	279	343	406	483	533	635
	[inch]	6	7	7.5	9	10	11	13.5	16	19	21	25
S	**[mm]**	4 x 19.1	4 x 19.1	4 x 19.1	8 x 19.1	8 x 22.4	8 x 22.4	8 x 22.4	12 x 25.4	12 x 25.4	12 x 28.5	16 x 31.75
	[inch]	4 x 0.75	4 x 0.75	4 x 0.75	8 x 0.75	8 x 0.88	8 x 0.88	8 x 0.88	12 x 1.00	12 x 1.00	12 x 1.12	16 x 1.25
Bolt size		5/8"	5/8"	5/8"	5/8"	3/4"	3/4"	3/4"	7/8"	7/8"	1"	1 1/8"

Counterflanges to ANSI 250



		Nominal flange diameter (NPS)										
		2	**2 1/2**	**3**	**4**	**5**	**6**	**8**	**10**	**12**	**14**	**18**
D1	**[mm]**	50.8	63.5	76.2	102	127	152	203	254	305	337	457.2
	[inch]	2	2.5	3	4	5	6	8	10	12	13.3	18
D2	**[mm]**	127	149	168	200	235	270	330	387	451	514	592
	[inch]	5	5.88	6.62	7.88	9.25	10.6	13	15.3	17.8	20.3	23.31
D3	**[mm]**	165	191	210	254	279	318	381	445	521	584	711.2
	[inch]	6.5	7.5	8.25	10	11	12.5	15	17.5	20.5	23	28
S	**[mm]**	8 x 19.1	8 x 22.4	8 x 22.4	8 x 22.4	8 x 22.4	12 x 22.4	12 x 25.4	16 x 28.5	16 x 31.8	20 x 31.8	24 x 35.1
	[inch]	8 x 0.75	8 x 0.88	8 x 0.88	8 x 0.88	8 x 0.88	12 x 0.88	12 x 1.00	16 x 1.12	16 x 1.25	20 x 1.25	24 x 1.38
Bolt size		5/8"	3/4"	3/4"	3/4"	3/4"	3/4"	7/8"	1"	1 1/8"	1 1/8"	1 1/4"

Tap and drain plug dimensions

Pump model	Outlet gauge tap 20C	Inlet gauge tap 20B	Case drain 20A	Outlet vent 17 (Dome)	Inlet vent 20E (Dome)
LS 65-50-241	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 65-50-330	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 100-80-241	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 100-80-356	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 125-100-279	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 125-100-305	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 125-100-381	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 125-100-388	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 150-125-305	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 150-125-381	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 200-150-305	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 200-150-381	(2) 1/4	(2) 1/4	(4) 1/2	1/2	(4) 1/4
LS 200-150-483	1/4	1/4	(4) 1/2	1/2	(2) 1/4; (2) 1/2
LS 200-150-508	(2) 1/4	(2) 1/4	(4) 1/2	1/2	(4) 1/4
LS 250-200-305	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 250-200-381	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 300-200-489	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 300-250-305	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 300-250-381	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 350-250-498	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 350-250-630	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 350-300-508	1/4	1/4	(4) 1/2	1/2	(4) 1/4
LS 400-350-397	(2) 1/4	(2) 1/4	(4) 1/2	1/2	(4) 1/4
LS 450-350-397	(2) 1/4	(2) 1/4	(4) 1/2	1/2	(4) 1/4

All sizes shown are NPT standard tapered pipe threads (inch).
All quantities are one unless otherwise noted.

15. Other motor brands

Dimensional correction tables

The tables show corrections to the dimensional tables for MMG-H (Wonder) IE2 and IE3 motors.

If MMG-H motors are selected, the dimensions on pages 32 to 105 must be corrected according to the tables below.

MMG-H, IE2 motors, 2-pole

P_2 [kW]	HM	C	Net weight [kg]
	[mm]		
11	89	33	23
15	89	33	21
18.5	89	33	24
22	105	39	45
30	-13	59	13
37	-13	34	2
45	-10	2	-18
55	-20	28	-3
75	-31	8	5
90	-31	-50	-45

MMG-H, IE2 motors, 4-pole

P_2 [kW]	HA	HB	HE	HF	HM	ØMU	C	Net weight [kg]
	[mm]							
1.5	0	0	0	0	35	0	-39	-1
2.2	0	0	0	0	35	0	-20	-3
3	0	0	0	0	35	0	-20	0
4	0	0	0	0	34	0	-47	-5
5.5	0	0	0	0	63	0	-29	-9
7.5	0	0	0	0	63	0	-41	-12
11	0	0	0	0	89	0	33	17
15	0	0	0	0	89	0	3	17
18.5	0	0	0	0	7	0	21	44
22	0	0	0	0	7	0	8	38
30	0	0	0	0	-13	0	60	10
37	0	0	0	0	-10	0	36	0
45	0	0	0	0	-10	0	1	-4
55	0	0	0	0	-20	0	-42	-75
75	0	0	0	0	-31	0	8	-60
90	0	0	0	0	-31	0	-50	-70
110	0	0	0	0	5	0	133	121
132	0	0	0	0	5	0	83	52
160	0	0	0	0	5	0	83	-15
200	0	0	0	0	5	0	-57	-100
250	50	75	50	37.5	214	10	130	440
315	50	75	50	37.5	214	10	130	480

MMG-H, IE2 motors, 6-pole

P_2 [kW]	HM	C	Net weight [kg]
	[mm]		
11	52	30	28
15	7	8	-1
18.5	-13	60	9
22	-13	3	-12
30	-10	1	-29
37	-20	28	-25
45	-31	8	-50
55	-31	60	-25
75	5	133	105
90	5	83	15
110	5	83	110
132	5	-57	0

MMG-H, IE3 motors, 2-pole

P_2 [kW]	HM	C	Net weight [kg]
	[mm]		
11	45	33	17
15	45	33	14
18.5	45	33	18
22	61	39	38
30	-23	59	-17
37	-23	34	-23
45	-23	2	-28
55	-38	28	-23
75	-32	8	-15
90	-32	-50	-65

MMG-H, IE3 motors, 4-pole

P_2 [kW]	HM	C	Net weight [kg]
	[mm]		
1.5	35	-39	-2
2.2	35	-20	-2
3	35	-20	0
4	34	-47	-11
5.5	29	-29	-9
7.5	29	-41	-12
11	45	-41	13
15	45	-27	12
18.5	-21	22	5
22	-21	30	4
30	-23	34	-5
37	-23	37	-10
45	-23	2	-9
55	-38	28	-55
75	-32	8	-75
90	-32	-50	-85
110	-15	153	141
132	-15	98	27
160	-15	98	65
200	-15	-57	-20

16. Grundfos GO

Mobile solution for professionals on the GO!

Grundfos GO is the mobile tool box for professional users on the go. It is the most comprehensive platform for mobile pump control and pump selection, including sizing, replacement and documentation. It offers intuitive, handheld assistance and access to Grundfos online tools, and it saves valuable time for reporting and data collection.

GET IT ON Google play

Available on the App Store

17. Grundfos Product Center

Online search and sizing tool to help you make the right choice.

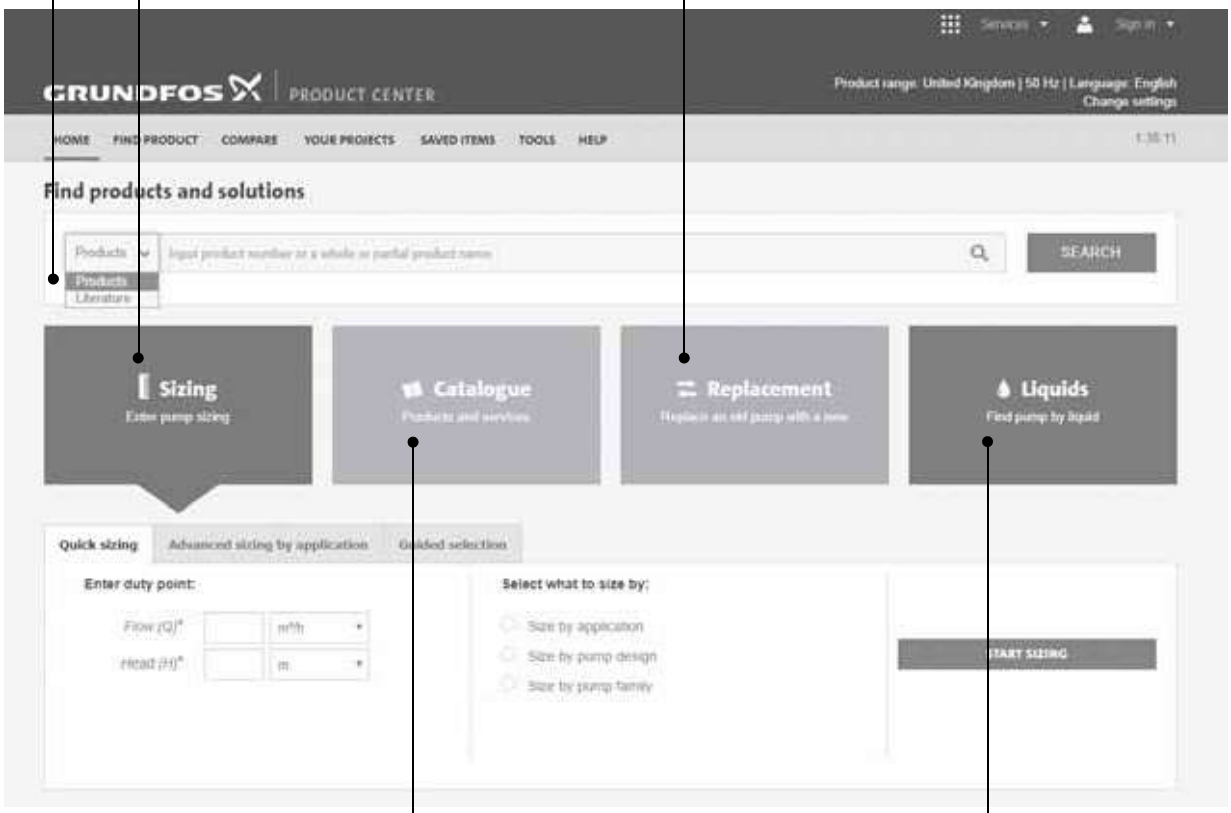
http://product-selection.grundfos.com

This drop-down menu enables you to set the search function to "Products" or "Literature".

"SIZING" enables you to size a pump based on entered data and selection choices.

"REPLACEMENT" enables you to find a replacement product. Search results will include information on the following:

- the lowest purchase price
- the lowest energy consumption
- the lowest total life cycle cost.



"CATALOGUE" gives you access to the Grundfos product catalogue.

"LIQUIDS" enables you to find pumps designed for aggressive, flammable or other special liquids.

All the information you need in one place

Performance curves, technical specifications, pictures, dimensional drawings, motor curves, wiring diagrams, spare parts, service kits, 3D drawings, documents, system parts. The Product Center displays any recent and saved items - including complete projects - right on the main page.

Downloads

On the product pages, you can download installation and operating instructions, data booklets, service instructions, etc. in PDF format.

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