

In-Line Pumps

Single-stage In-line centrifugal pumps LM, LP
60Hz



Contents

Mission

General Data

Performance range	page 4
Applications	page 5
Pumped Liquids	page 5
Operating Range	page 5
LM/LP Materials	page 5
Pump	page 6
Motor	page 6
Shaft Seals	page 6
Type Key LM, LP	page 6
Installation	page 6
Installation	page 7
Installation Possibilities	page 7
Selection of Pumps	page 7
Ordering of Pumps	page 7

Technical data

2.5 LM 5/XX	page 8
2.5 LM 6/XX	page 10
2.5 LM 8/XX	page 12
3.0 LM 5/XX	page 14
3.0 LM 6/XX	page 16
3.0 LM 8/XX	page 18
2.5 LP 5/XX	page 20
3.0 LP 5/XX	page 22
3.0 LP 6/XX	page 24
4.0 LP 5/XX	page 26

Technical data

LM Technical Product List	page 28
LP Technical Product List	page 29

Accessories

Series L Packaged flange sets*	page 30
Optional Shaft Seal Kits	page 30
Optional Shaft Seal Kits for use with Glycol/water mixtures	page 30
Accessories	page 30

Submittal data sheet

Submittal data	page 31
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- to successfully develop, produce, and sell high quality pumps and pumping systems worldwide, contributing to a better quality of life and healthier environment



Bjerringbro, Denmark



Fresno, California



Olathe, Kansas



Monterrey, Mexico



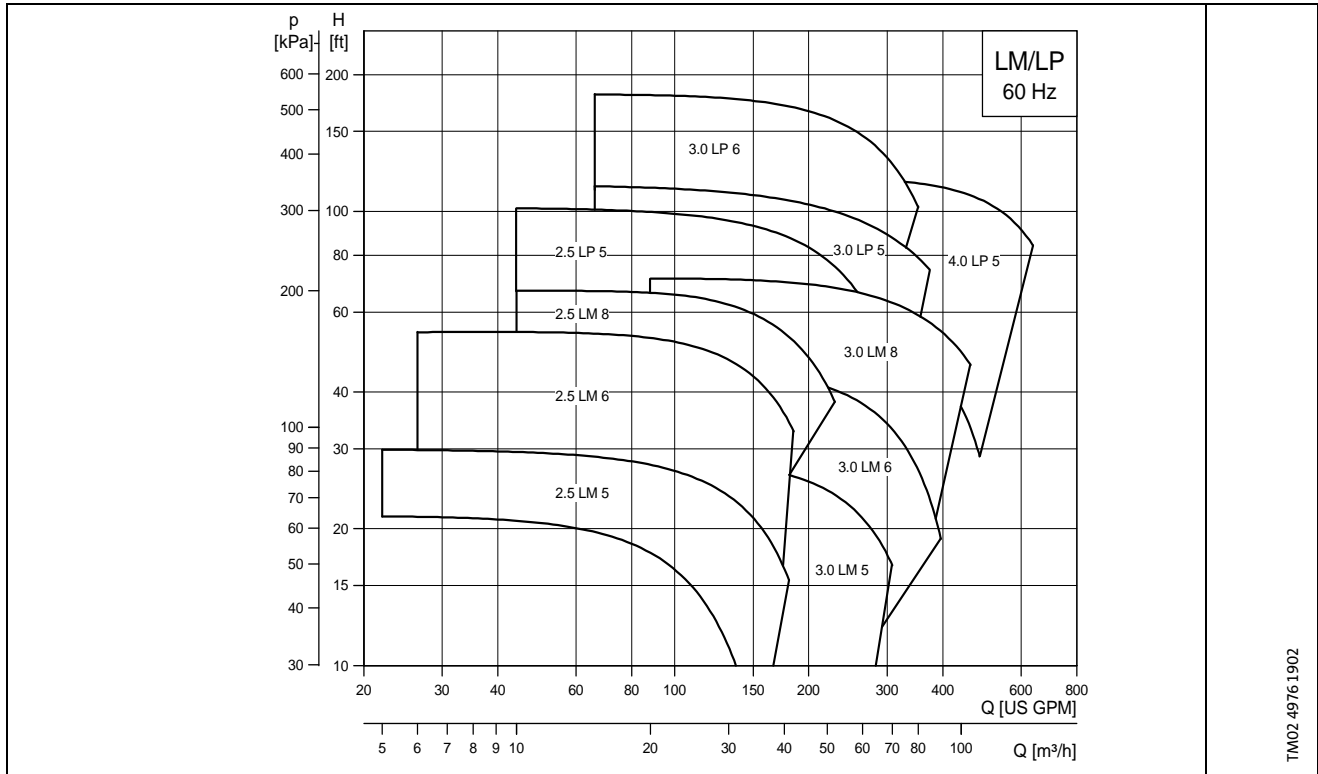
Allentown, Pennsylvania



Oakville, Ontario

- One of the 3 largest pump companies in the world with over 11,000 employees worldwide
- World headquarters in Denmark
- North American headquarters in Kansas City - Manufacturing in Fresno, California
- 60 companies in 40 countries
- More than 10 million pumps produced annually worldwide
- North American companies operating in USA, Canada and Mexico
- Continuous reinvestment in growth and development enables the company to **BE** responsible, **THINK** ahead, and **INNOVATE**

Quick Reference



TM02 4976 1902

MODEL	FLOW	HEAD	PH	HP	FLANGE	PAGE #
2.5 LM5/4.6	30-160 U.S. GPM	8-22 Feet	1, 3	3/4	2 1/2" ANSI	8
2.5 LM5/5.2	30-175 U.S. GPM	14-30 Feet	1, 3	3/4	2 1/2" ANSI	8
2.5 LM6/6.2	30-170 U.S. GPM	18-40 Feet	1, 3	2	2 1/2" ANSI	10
2.5 LM6/6.9	30-185 U.S. GPM	33-54 Feet	1, 3	3	2 1/2" ANSI	10
2.5 LM8/8.0	30-220 U.S. GPM	40-66 Feet	1, 3	5	2 1/2" ANSI	12
3.0 LM5/4.6	60-265 U.S. GPM	6-18 Feet	1, 3	1	3" ANSI	14
3.0 LM5/5.0	60-300 U.S. GPM	10-22 Feet	1, 3	1 1/2	3" ANSI	14
3.0 LM5/5.4	60-320 U.S. GPM	16-28 Feet	1, 3	2	3" ANSI	14
3.0 LM6/6.3	60-340 U.S. GPM	20-38 Feet	1, 3	3	3" ANSI	16
3.0 LM6/6.6	60-350 U.S. GPM	27-46 Feet	1, 3	5	3" ANSI	16
3.0 LM8/7.4	60-340 U.S. GPM	44-58 Feet	1, 3	5	3" ANSI	18
3.0 LM8/8.3	60-380 U.S. GPM	56-72 Feet	1, 3	7 1/2	3" ANSI	18
2.5 LP5/4.3	44-250 U.S. GPM	37-76 Feet	1, 3	5	2 1/2" ANSI	20
2.5 LP5/4.6	44-270 U.S. GPM	47-87 Feet	1, 3	5	2 1/2" ANSI	20
2.5 LP5/5.0	44-285 U.S. GPM	67-105 Feet	1, 3	7 1/2	2 1/2" ANSI	20
3.0 LP5/4.5	66-340 U.S. GPM	38-80 Feet	1, 3	5	3" ANSI	22
3.0 LP5/4.9	66-350 U.S. GPM	60-91 Feet	1, 3	7 1/2	3" ANSI	22
3.0 LP5/5.2	66-370 U.S. GPM	73-114 Feet	1, 3	10	3" ANSI	22
3.0 LP6/5.6	66-290 U.S. GPM	70-133 Feet	3	15	3" ANSI	24
3.0 LP6/6.1	66-310 U.S. GPM	85-160 Feet	3	15	3" ANSI	24
3.0 LP6/6.6	66-330 U.S. GPM	100-180 Feet	3	20	3" ANSI	24
4.0 LP5/4.3	110-450 U.S. GPM	35-66 Feet	1, 3	7 1/2	4" ANSI	26
4.0 LP5/4.9	110-540 U.S. GPM	50-86 Feet	1, 3	10	4" ANSI	26
4.0 LP5/5.2	110-580 U.S. GPM	72-105 Feet	3	15	4" ANSI	26
4.0 LP5/5.5	110-620 U.S. GPM	90-125 Feet	3	20	4" ANSI	26

Applications

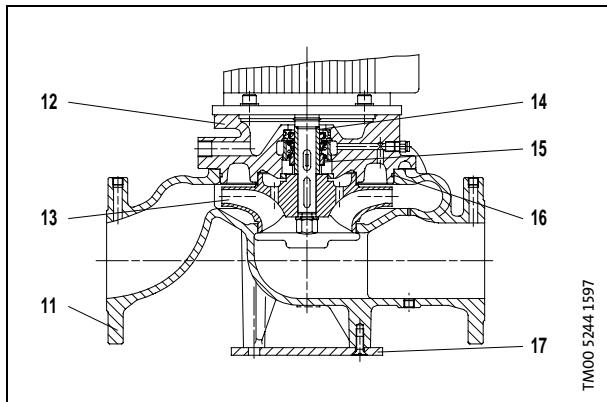
The Grundfos single-stage in-line pumps are designed for booster, circulation, transfer and water supply applications in e.g.:

- Boiler/hydronic heating
- Chilled water
- Air-conditioning systems
- Cooling towers
- Washdown systems
- Other industrial systems

Pumped Liquids

Thin, clean, non-aggressive and non-explosive liquids without solid particles or fibres.

EPDM rubber parts fitted as standard are primarily designed for water. When pumping other liquids than water or water containing mineral oil or chemicals, the rubber parts chosen must be suitable for the pumped liquid.



Operating Range

Liquid Temperature

LM, LP: 5°F to +250°F.

Maximum Operating Pressure

LM, LP: 175 psi (12 bar)

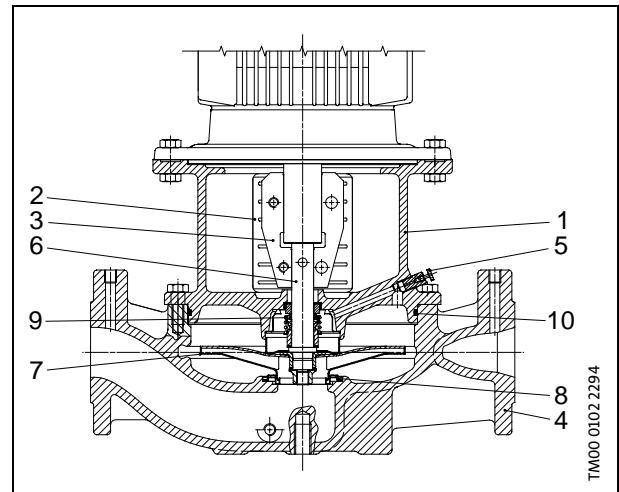
Inlet Pressure

Minimum inlet pressure according to the NPSH curve.

The maximum inlet pressure is limited by the maximum operating pressure.

LM/LP Materials

Pos.	Components	Materials	AISI/ASTM
1	Motor stool	Cast iron EN-GJL-250	
2	Coupling guard	Stainless steel	304
3	Coupling	Cast iron EN-GJS-400-15U or sintered metal	
4	Pump housing	Cast iron EN-GJL-250	
5	Air vent screw	Brass	
6	Shaft	Stainless steel	431
7	Impeller	Stainless steel	304
8	Neck ring	Stainless steel	304
9	Mechanical seal	Carbon/tungstencarbide	
10	O-ring	EPDM	



Pump

The in-line pumps are vertical, single-stage centrifugal pumps of the non self-priming type fitted with standard NEMA motors and mechanical shaft seals.

Pumps with the same nominal flow rates have the same nominal port diameters (inches) and port to port length, irrespective of head and speed.

Motor stool

The motor stool forms the connection between pump housing and motor and is equipped with a manual air vent for the venting of pump housing and shaft seal chamber.

The motor side flange of the motor stool is according to NEMA.

Pump Housing

In-line, spiral-shaped cast iron pump housing with flange dimensions to ANSI. The dimensions of the suction and discharge ports are identical.

Both pump flanges have pressure gauge tappings. A drain plug is fitted in the bottom of the pump housing. Base plates for the LM and LP pumps are available on request.

Impeller

The LM and LP impellers are made of stainless steel with double curved blades and smooth surfaces to ensure a hydraulically correct shape of the impeller.

The impellers are machined to attain high accuracy of dimensions and to ensure good balance.

When seen from the motor fan the direction of rotation is as follows:

LM, LP: Counter-clockwise.

Motor

TEFC motors in NEMA C Face frame sizes are standard. ODP and special duty classes are optional.

Motors are  rated.

The motor must be connected to a motor starter in accordance with local regulations.

Shaft Seals

LM, LP

The pumps are fitted as standard with a single, unbalanced carbon/tungsten carbide rubber bellows shaft seal in either a 16mm or 22mm diameter size with EPDM elastomer (BUBE).

Optional shaft seals are also available:

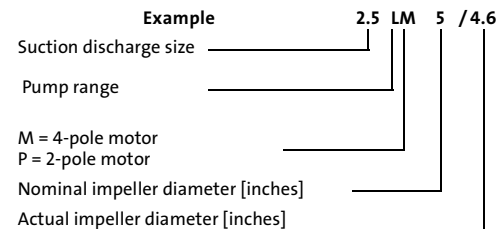
- unbalanced carbon/tungsten carbide rubber bellows shaft seal in either a 16mm or 22mm diameter size with FKM elastomer (BUBV).
- unbalanced tungsten carbide/tungsten carbide O-ring shaft seal in either a 16mm or 22mm diameter size with EPDM elastomer (AUUE).

And for glycol/water mixtures:

- unbalanced reduced face tungsten carbide/tungsten carbide O-ring shaft seal in either a 16mm or 22mm diameter size with both EPDM and FKM elastomers (RUUE/V).

The circulation of liquid in the duct of the air vent screw ensures lubrication and cooling of the shaft seal.

Type Key LM, LP



Installation

The pump can be placed on a vibration absorbing material. Vibration and noise from the pump can be further reduced by fitting anti-vibration mountings either side of the pump.

Top-Pull-Out Design

The pump head (motor, motor stool and impeller) can be removed without disruption to the pipework. The following minimum clearances must be allowed above the motor:

- Pumps fitted with motors up to and including 5 hp require a 12 inch clearance above the motor.
- Pumps fitted with motors of 7 1/2 hp and up require at least a 36 inch clearance above the motor to allow the use of lifting equipment, if required.

Connection

The pump may be installed in horizontal or vertical pipework depending on the motor size.

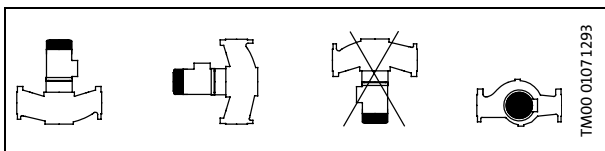
Pumps fitted with motors up to and including 15 hp may be installed with the motor/pump shaft in all positions between vertical and horizontal, but the motor must never fall below the horizontal plane.

Pumps fitted with motors of 20 hp and up should only be installed horizontally with the motor/pump shaft in vertical position.

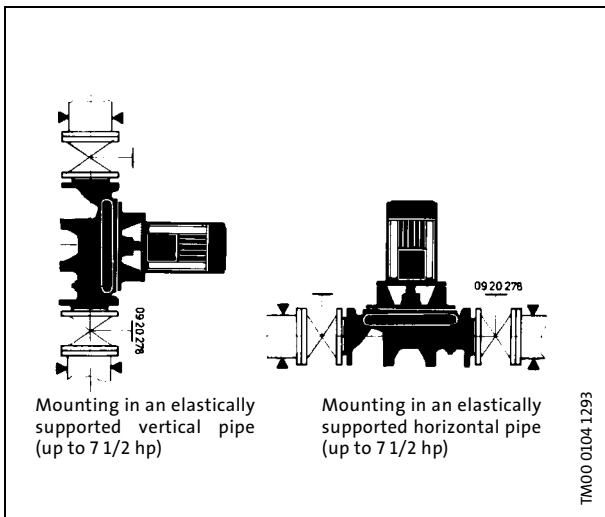
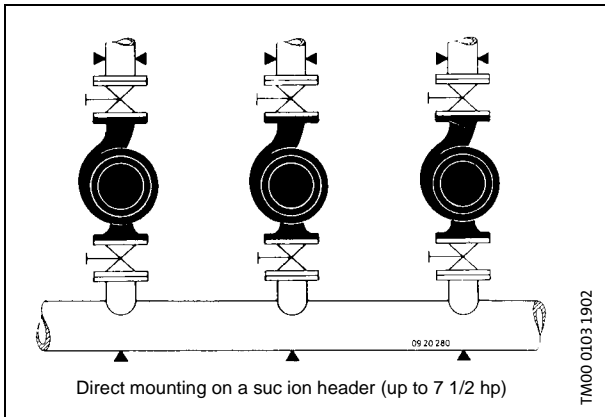
It is advisable to fit isolating valves either side of the pump to avoid draining the system if the pump needs to be cleaned or repaired.

Installation

The pump can be installed with the motor (motor center line) in all positions between vertical and horizontal. To avoid that water penetrates motor and bearings, the motor must never fall below the horizontal.



Installation Possibilities



Selection of Pumps

The standard concept of the motor selection for Grundfos in-line pumps is that the installed motor horsepower can cover the whole performance curve of the specified nominal impeller diameter, which means that it is only needed to check if the requested duty point is somewhere on the performance curve of the nominal impeller diameter which belongs to a certain standard installed motor horsepower.

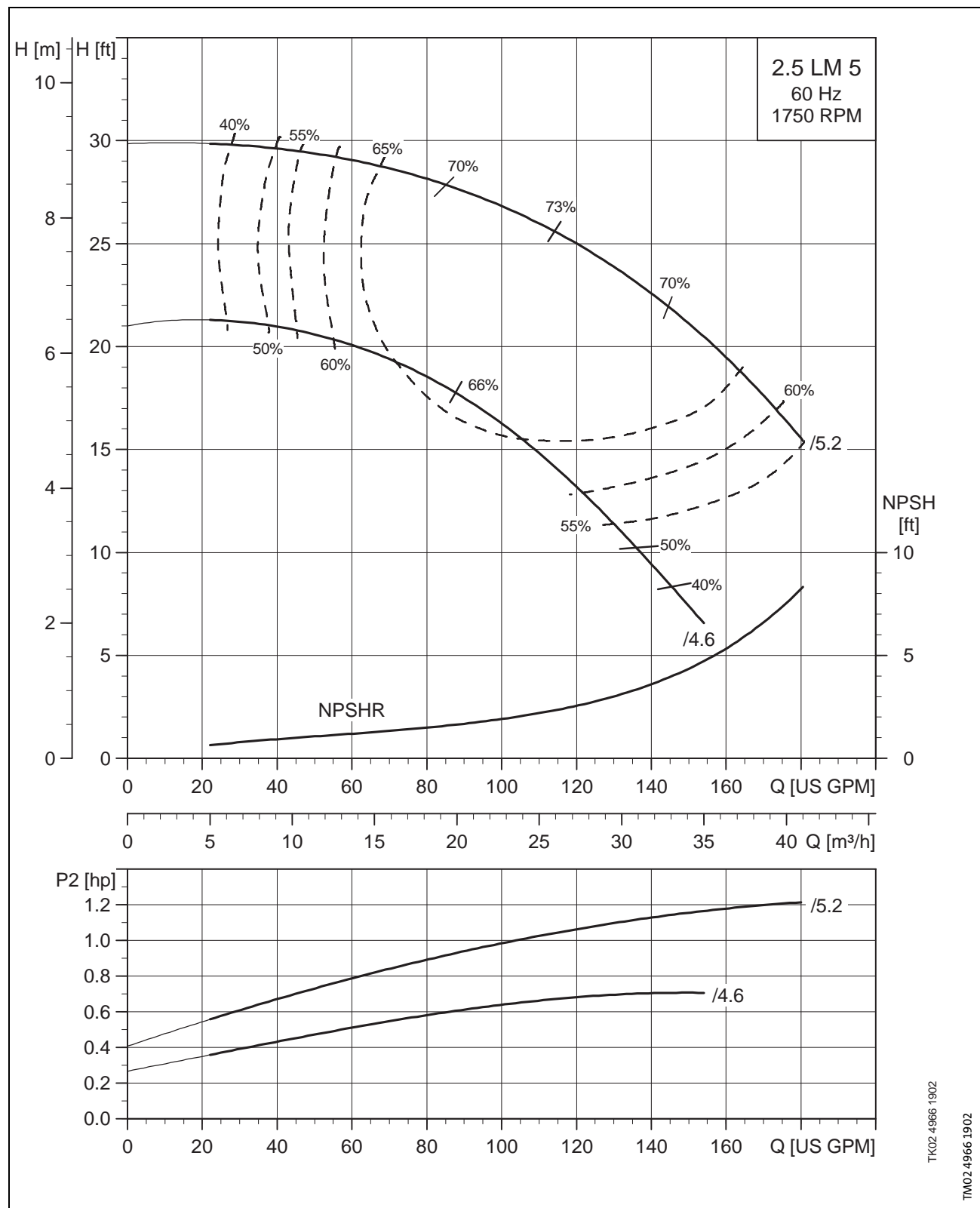
The power consumption which belongs to the duty point can be taken from the power curve shown in the performance curve of the pump.

Ordering of Pumps

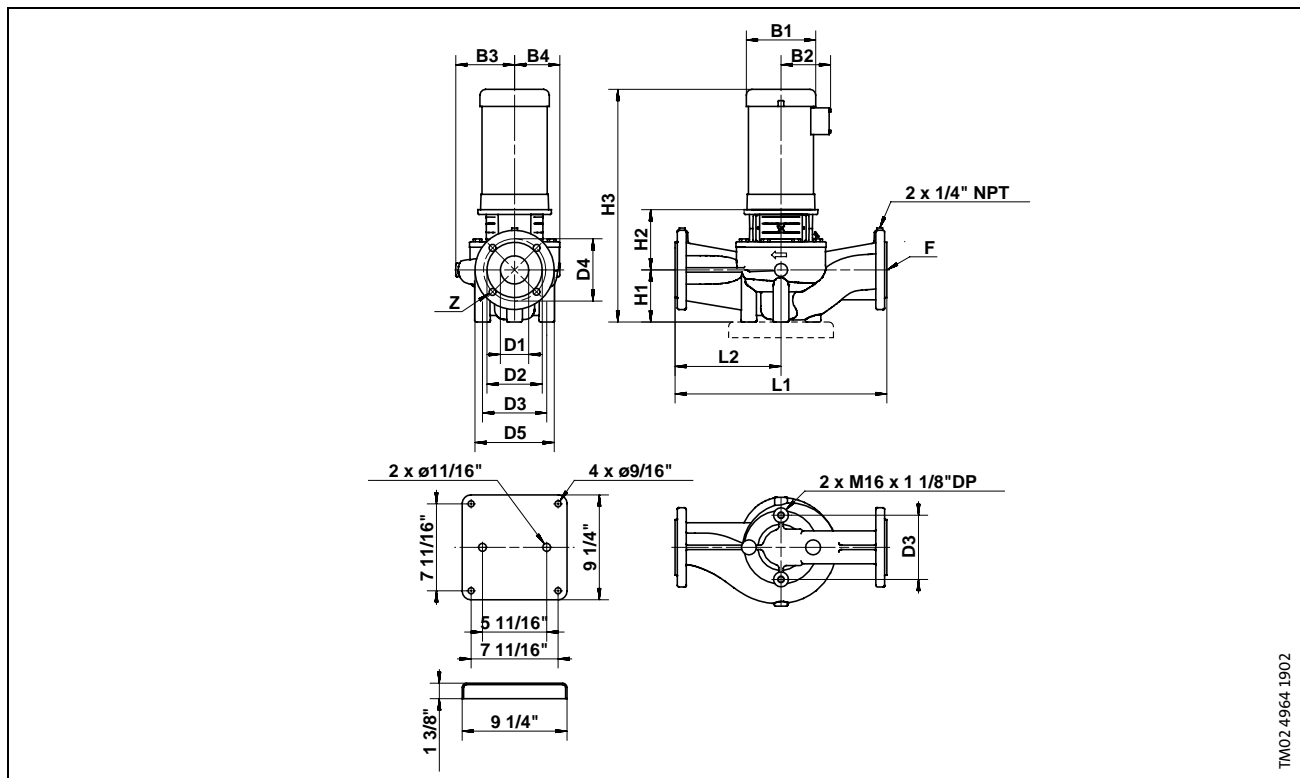
Requested data:

- Q in US GPM.
- H in ft.
- Pump type.
- Motor hp.
- Voltage and frequency.
- Liquid and liquid temperature.

2.5 LM 5/XX



2.5 LM 5/XX



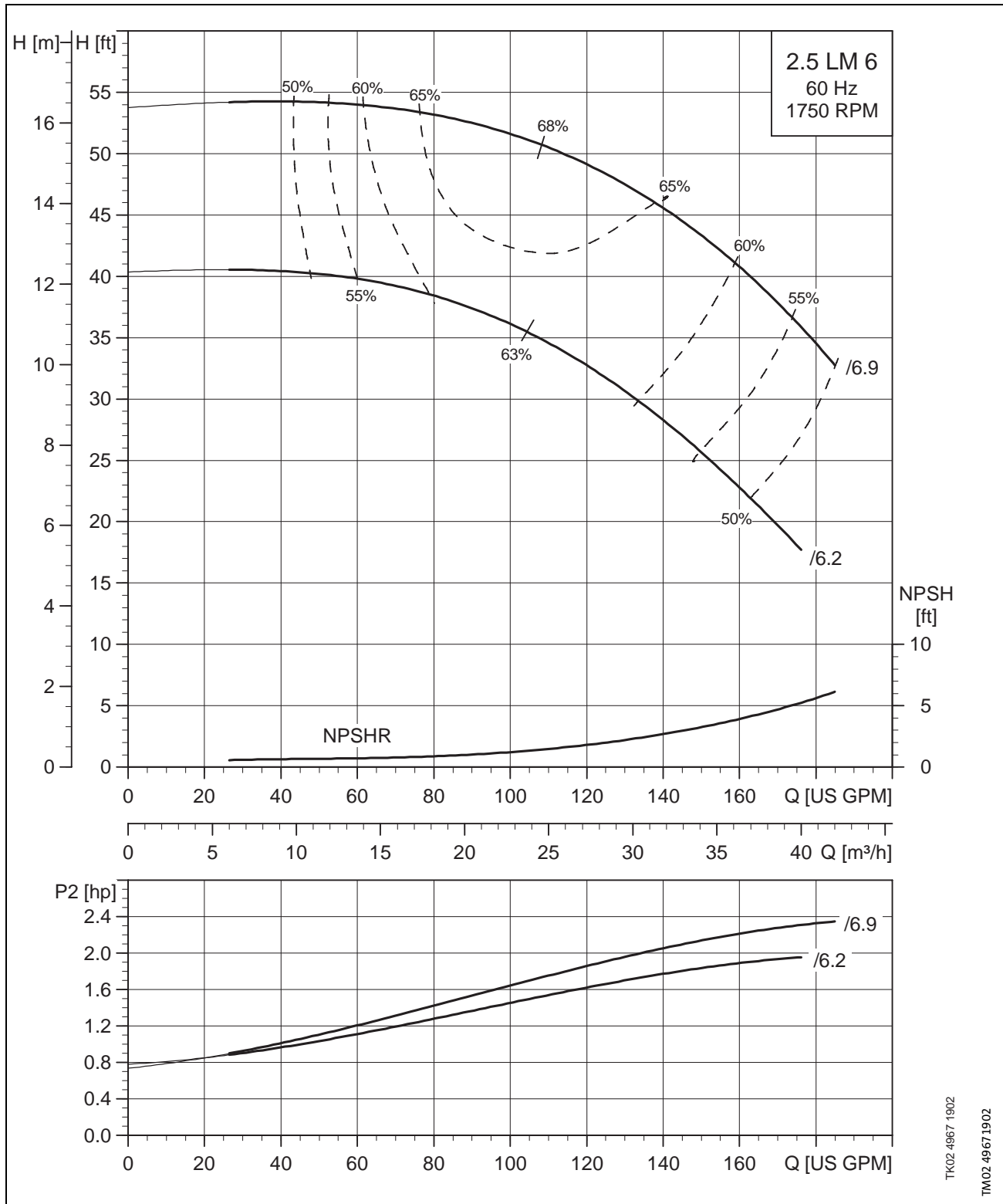
Electrical Data, Weights and Dimensions

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [inches] (mm)								Net Wt.	
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3	L1		L2
2.5 LM 5/4.6	.75	1.15	1	56C	115/230	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 4x(16)	6 1/4	4 7/16	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	5 1/2 (140)	20 15/16	19 (483)	9 1/2 (241)	115
	.75	1.25	3	56C	208-230/460,575	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 4x(16)	6 1/4	4 7/16	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	5 1/2 (140)	20 1/16	19 (483)	9 1/2 (241)	108
2.5 LM 5/5.2	1.5	1.15	1	56C	115/208-230	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 4x(16)	7 1/4	5 1/8	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	5 1/2 (140)	21 7/16	19 (483)	9 1/2 (241)	118
	1.5	1.15	3	56C	208-230/460,575	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 4x(16)	7 1/4	5 1/8	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	5 1/2 (140)	20 7/16	19 (483)	9 1/2 (241)	110

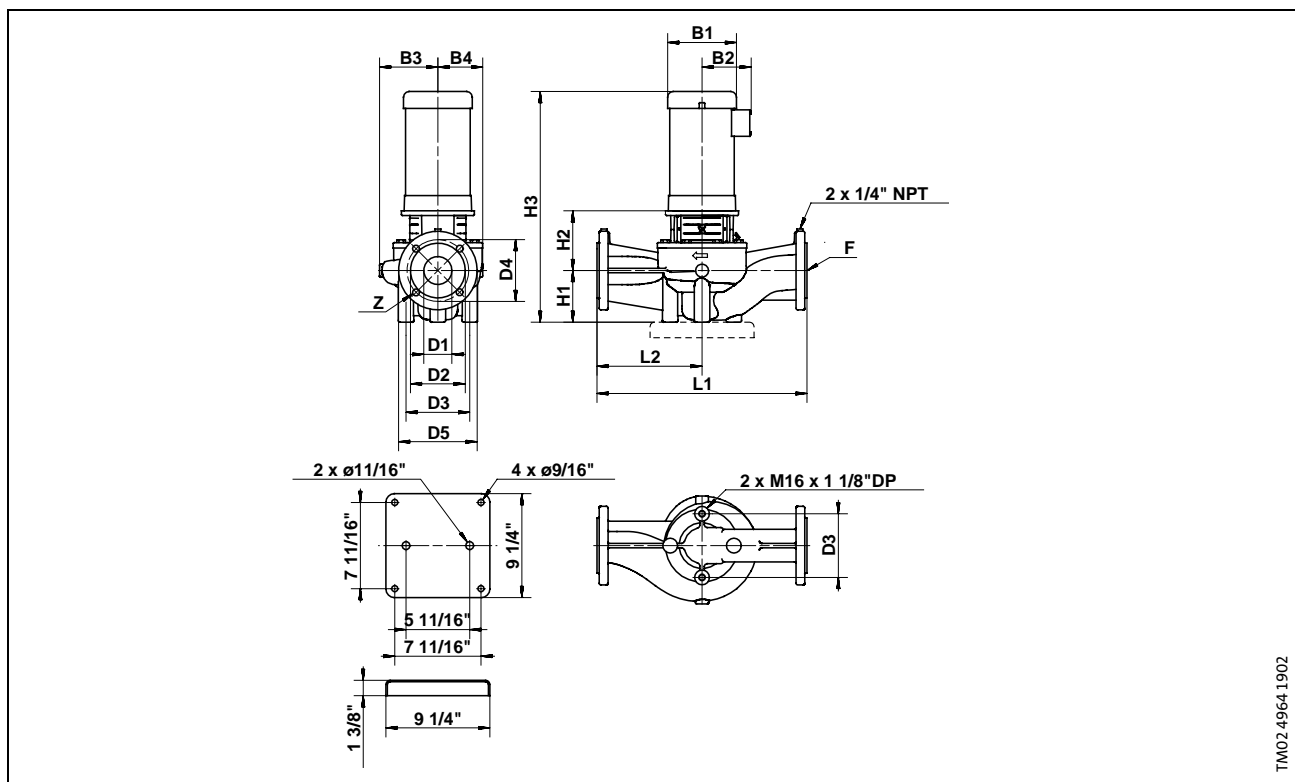
Technical Data

Flow Range:	30-175 U.S. GPM	Temperature Range:	5°-250°(-15°121°C)
Minimum Pumping Rate:	15 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	8-30 FEET	Flanges:	2 1/2" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

2.5 LM 6/XX



2.5 LM 6/XX



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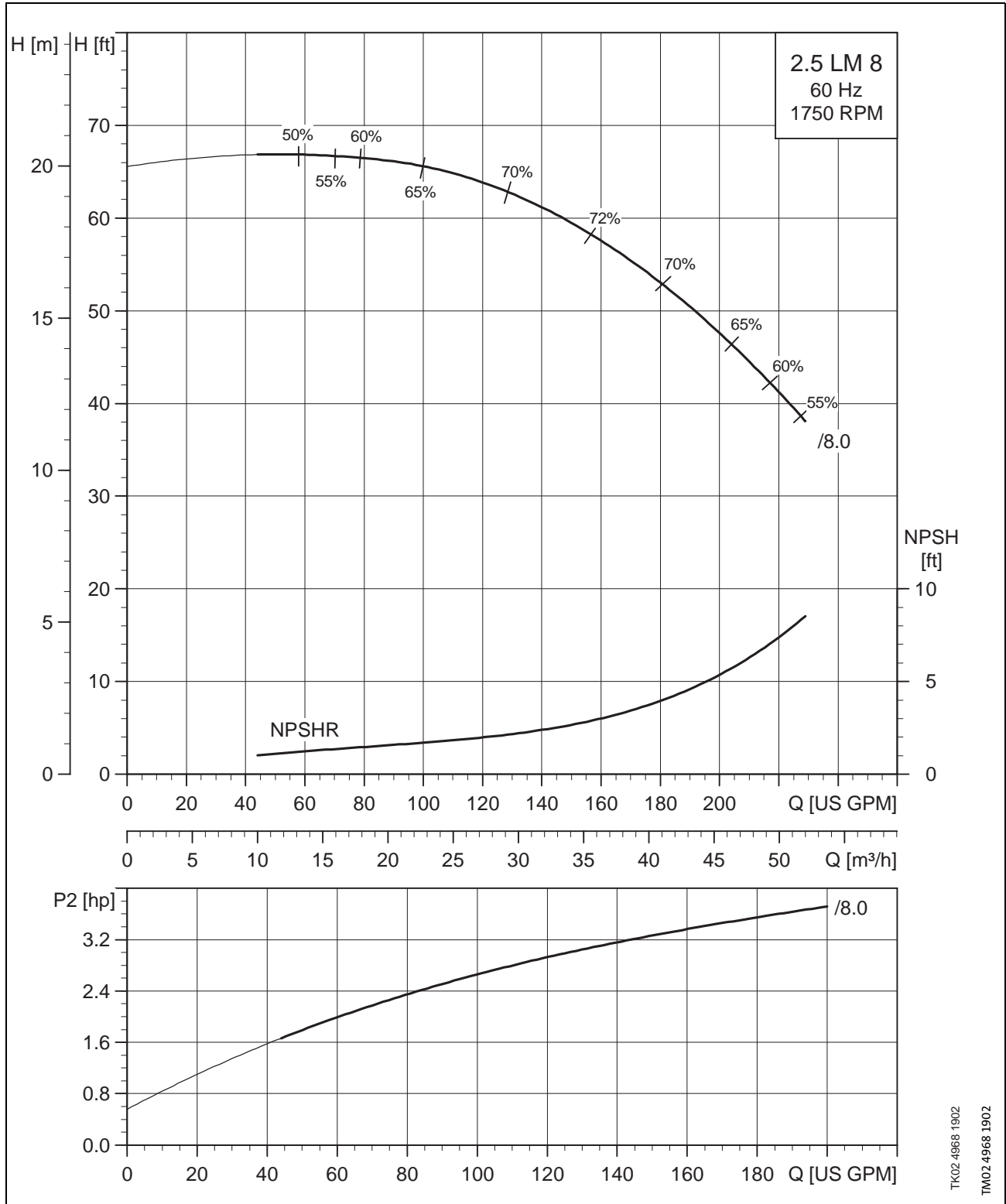
Electrical Data, Dimensions and Weights

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [inches] (mm)								Net Wt.	
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3	L1		L2
2.5 LM6/6.2	2.0	1.15	1	56C	115/230	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 (16)	7 1/4 (188)	5 1/8 (132)	6 3/16 (157)	5 15/16 (151)	4 9/16 (126)	5 1/2 (140)	24	19 (483)	9 1/2 (241)	126
	2.0	1.15	3	56C	208-230/460,575	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 (16)	7 1/4 (188)	5 1/8 (132)	6 3/16 (157)	5 15/16 (151)	4 9/16 (126)	5 1/2 (140)	22 5/8 (579)	19 (483)	9 1/2 (241)	113
2.5 LM 6/6.9	3.0	1.15	1	184TC	115/230	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 (16)	8 1/2 (216)	5 7/8 (146)	6 3/16 (157)	5 15/16 (151)	4 9/16 (126)	6 1/16 (154)	24 9/16 (627)	19 (483)	9 1/2 (241)	180
	3.0	1.15	3	182TC	208-230/460,575	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 (16)	7 1/8 (184)	5 1/8 (132)	6 3/16 (157)	5 15/16 (151)	4 9/16 (126)	6 1/16 (154)	23 3/16 (592)	19 (483)	9 1/2 (241)	158

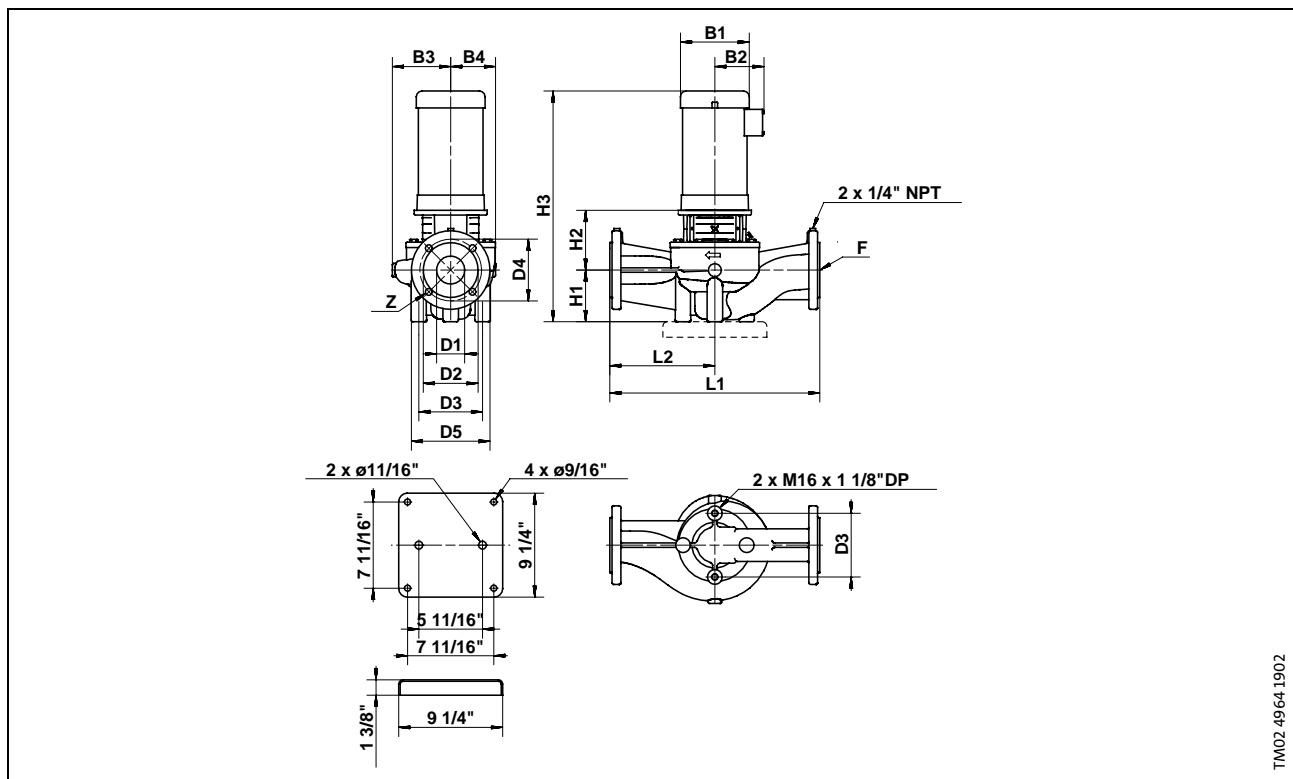
Technical Data

Flow Range:	30-185 U.S. GPM	Temperature Range:	5°-250°(-15°-121°C)
Minimum Pumping Rate:	15 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	18-54 FEET	Flanges:	2 1/2" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

2.5 LM 8/XX



2.5 LM 8/XX



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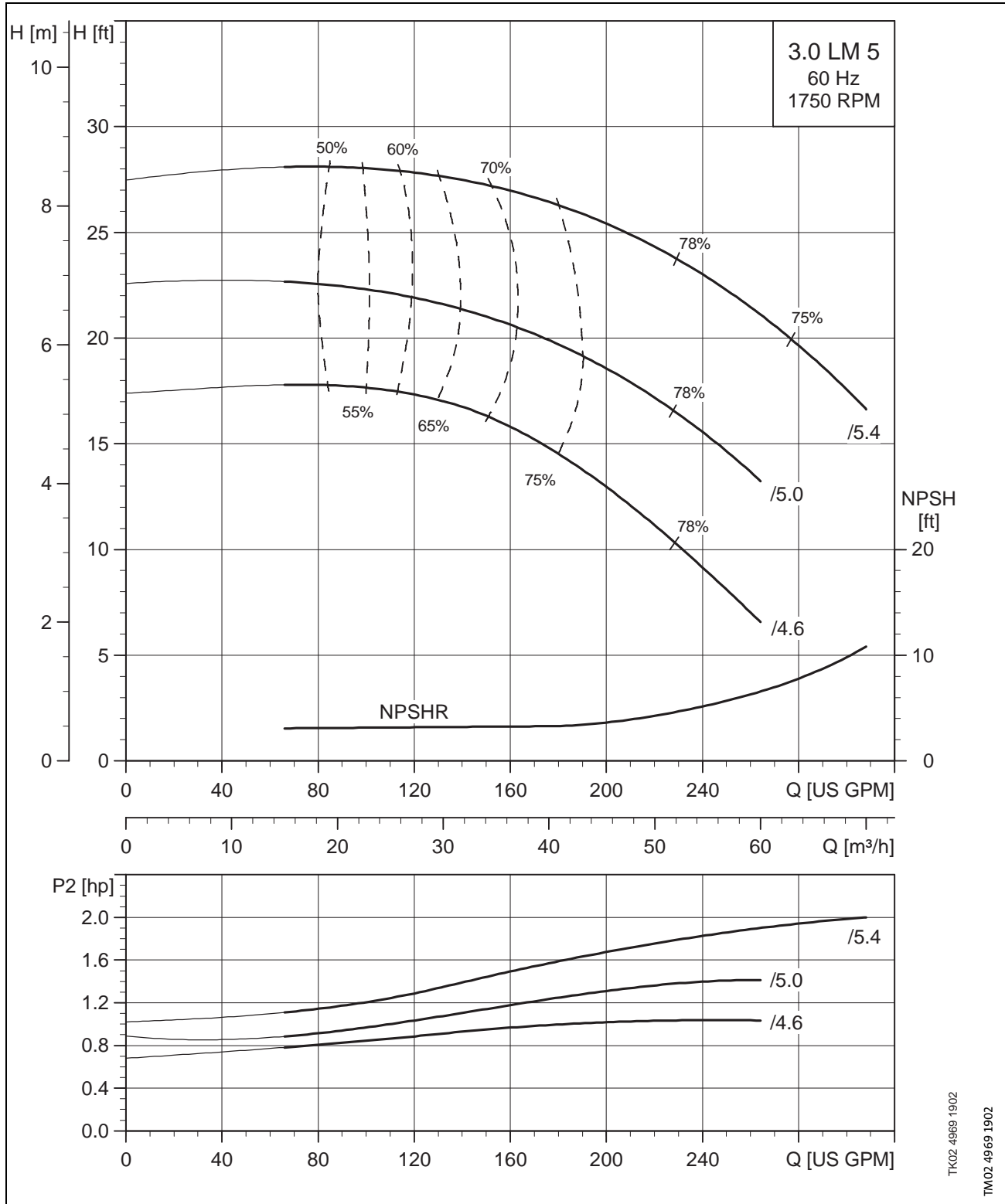
Electrical Data, Dimensions and Weights

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [inches] (mm)								Net Wt.	
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3	L1		L2
2.5 LM 8/8.0	5.0	1.15	1	215TC	230	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 (16)	10 1/4	7 3/8	6 3/16 (157)	5 15/16 (151)	4 9/16 (116)	7 3/8 (187)	28	19 (483)	9 1/2 (241)	194
	5.0	1.15	3	184TC	208-230/460,575	2 1/2 (64)	5 11/16 (145)	5 1/2 (140)	7 (178)	4 x 5/8 (16)	8 1/2	5 7/8	6 3/16 (157)	5 15/16 (151)	4 9/16 (116)	7 3/8 (187)	25 7/8	19 (483)	9 1/2 (241)	166

Technical Data

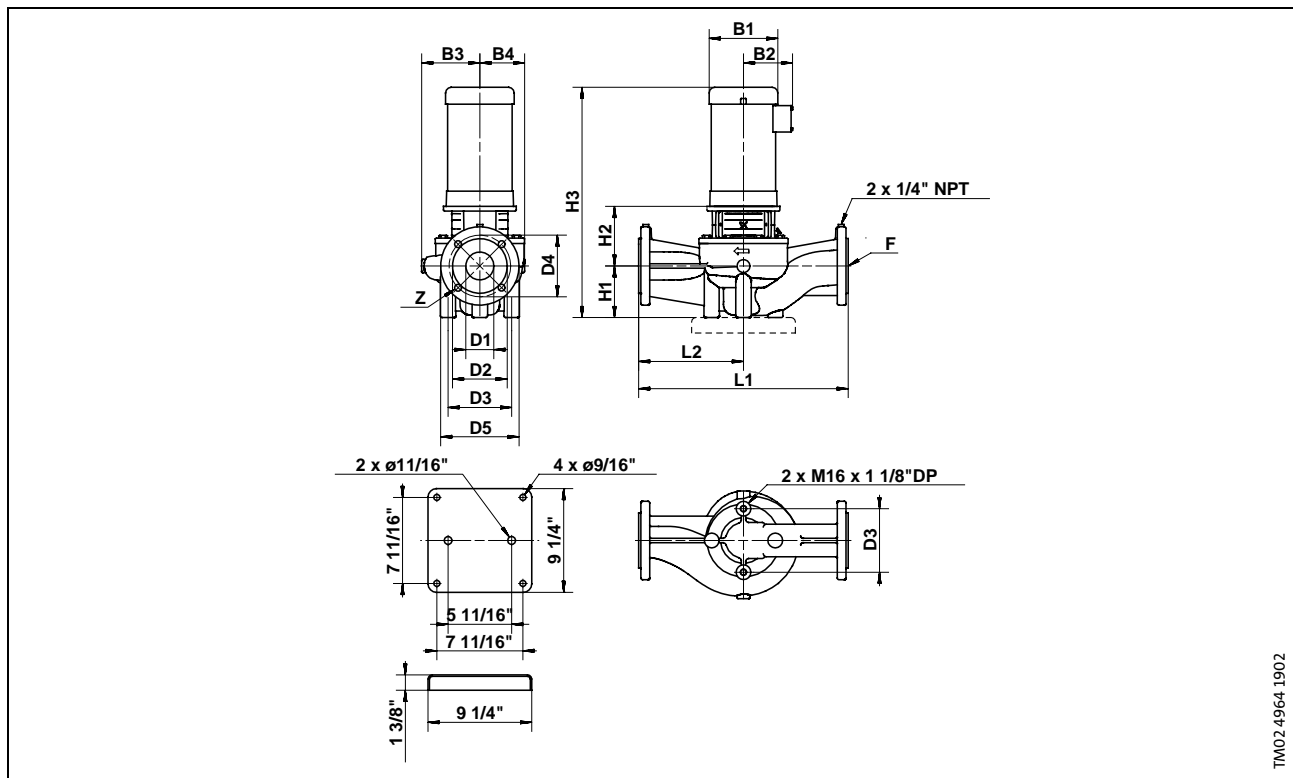
Flow Range:	30-220 U.S. GPM	Temperature Range:	5°-250°(-15°-121°C)
Minimum Pumping Rate:	15 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	40-66 FEET	Flanges:	2 1/2" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

3.0 LM 5/XX



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3.0 LM 5/XX



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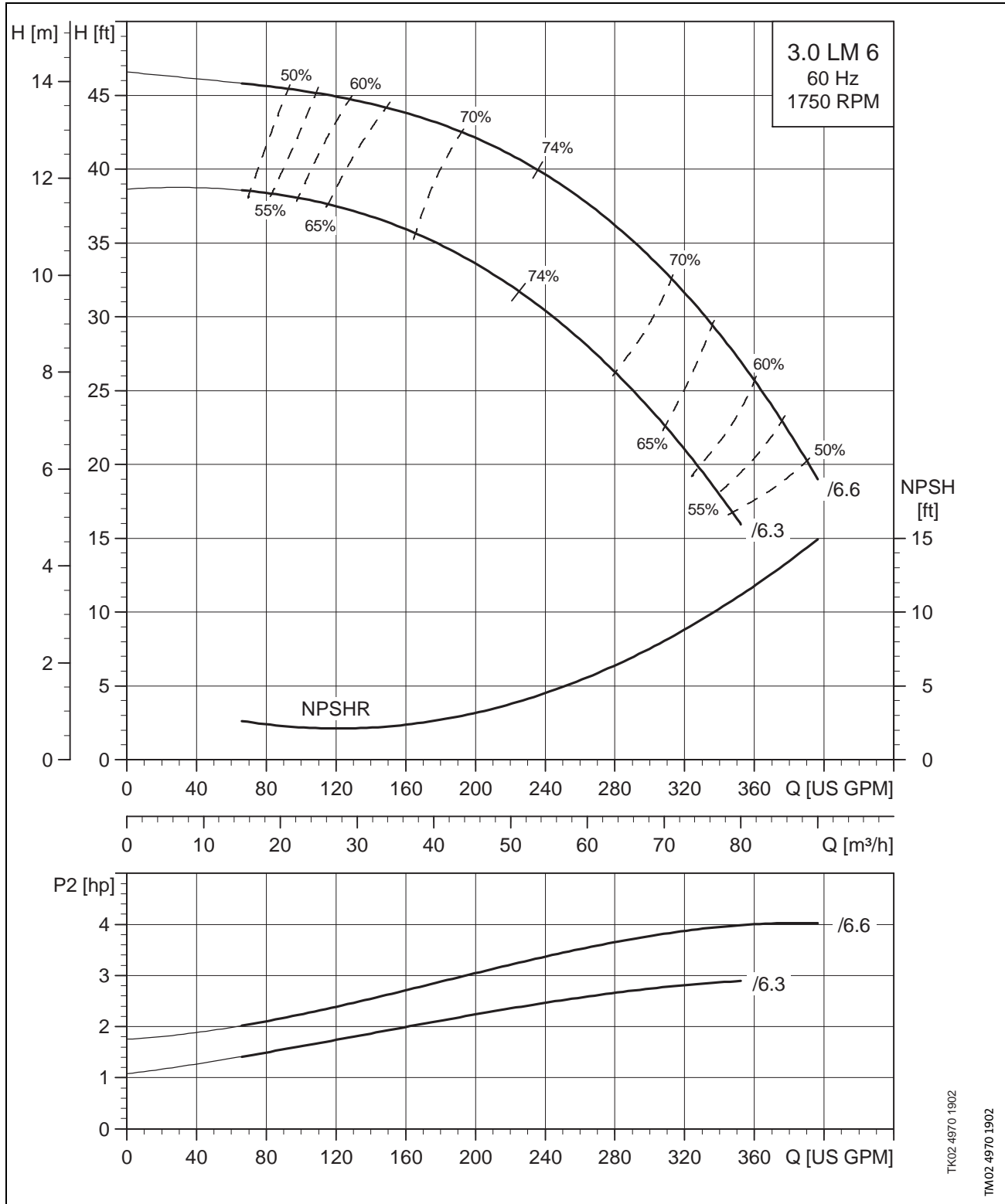
Electrical Data, Dimensions and Weights

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [Inches] (mm)							Net Wt.		
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3		L1	L2
3.0 LM 5/4.6	1.0	1.15	1	56C	115/230	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	7 1/4	5 1/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	5 1/2 (140)	22	21 (533)	10 1/2 (267)	123
	1.0	1.25	3	56C	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	7 1/4	5 1/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	5 1/2 (140)	21	21 (533)	10 1/2 (267)	116
3.0 LM 5/5.0	1.5	1.15	1	56C	115/208-230	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	7 1/4	5 1/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	5 1/2 (140)	22	21 (533)	10 1/2 (267)	124
	1.5	1.15	3	56C	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	7 1/4	5 1/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	5 1/2 (140)	21	21 (533)	10 1/2 (267)	117
3.0 LM 5/5.4	2.0	1.15	1	56C	115/230	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	7 1/4	5 1/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	5 1/2 (140)	22 7/8	21 (533)	10 1/2 (267)	180
	2.0	1.15	3	56C	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	7 1/4	5 1/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	5 1/2 (140)	22	21 (533)	10 1/2 (267)	150

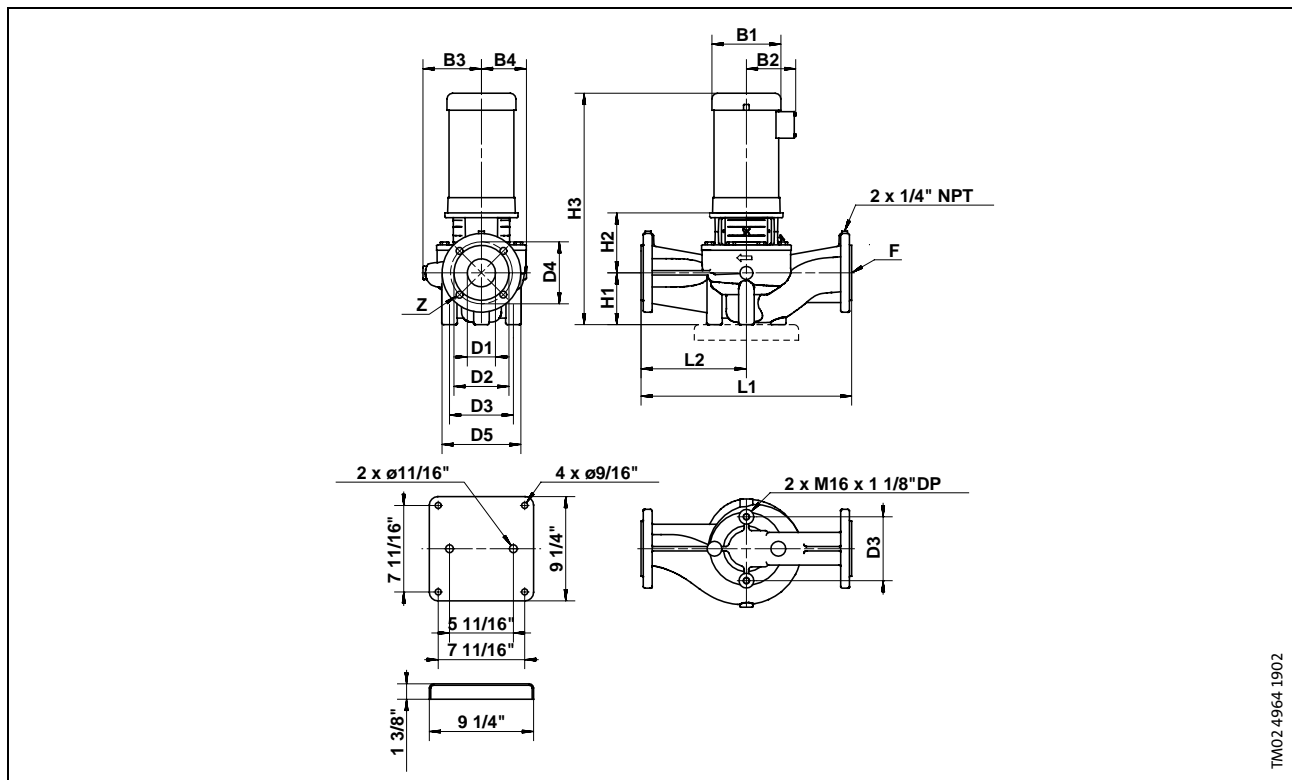
Technical Data

Flow Range:	60-320 U.S. GPM	Temperature Range:	5°-250°(-15°-121°C)
Minimum Pumping Rate:	25 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	6-28 FEET	Flanges:	2 1/2" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

3.0 LM 6/XX



3.0 LM 6/XX



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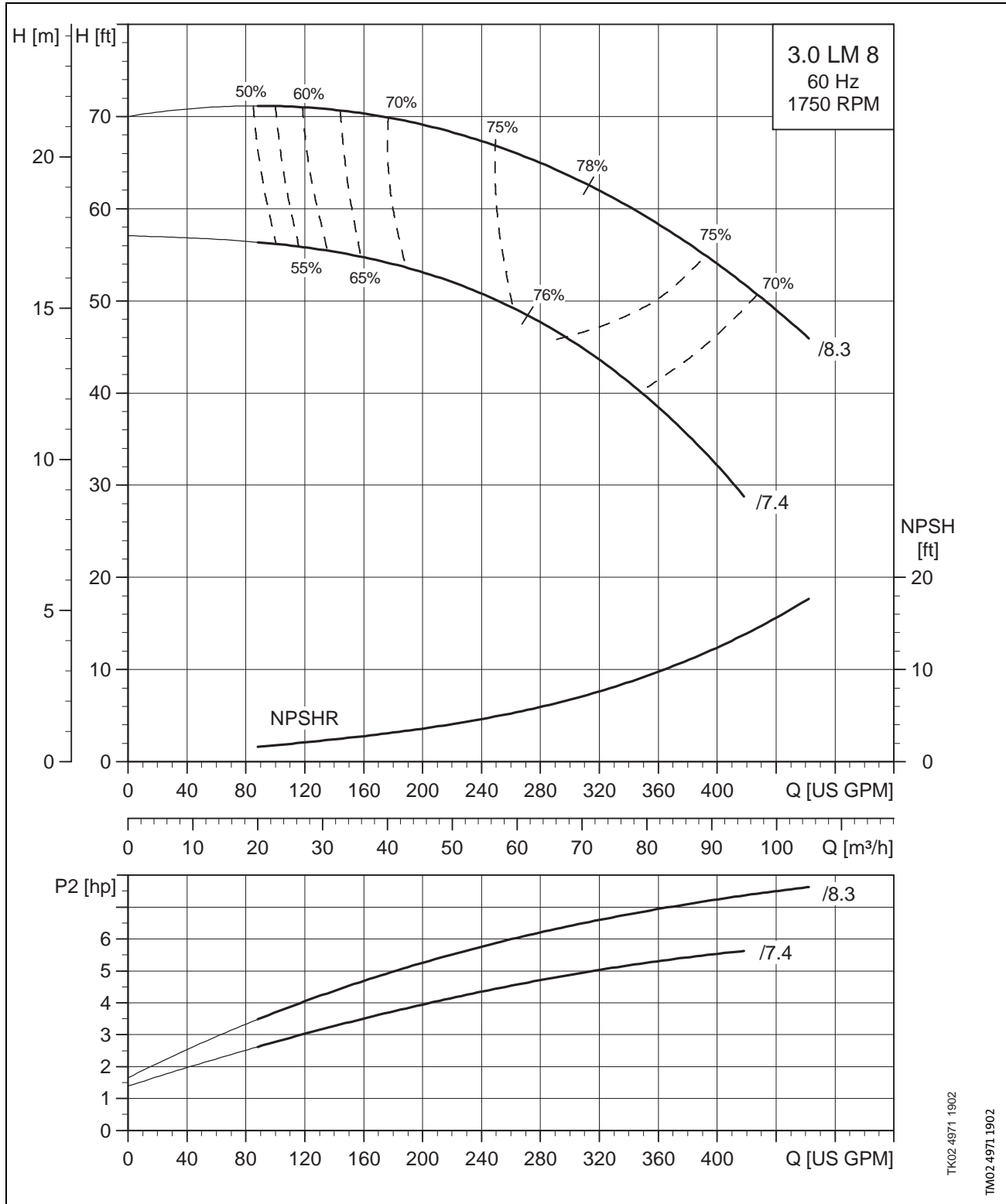
Electrical Data, Dimensions and Weights

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [inches] (mm)								Net Wt.	
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3	L1		L2
3.0 LM 6/6.3	3.0	1.15	1	184TC	115/230	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	8 1/2	5 7/8	7 1/8 (181)	5 15/16 (151)	5 1/8 (130)	7 9/16 (192)	26 5/8	21 (533)	10 1/2 (267)	180
	3.0	1.15	3	182TC	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	7 1/4	5 1/8	7 1/8 (181)	5 15/16 (151)	5 1/8 (130)	7 9/16 (192)	25 1/4	21 (533)	10 1/2 (267)	158
3.0 LM 6/6.6	5.0	1.15	1	215TC	230	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 1/8	7 3/8	7 1/8 (181)	5 15/16 (151)	5 1/8 (130)	8 7/8 (225)	30 1/8	21 (533)	10 1/2 (267)	200
	5.0	1.15	3	184TC	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	8 1/2	5 7/8	7 1/8 (181)	5 15/16 (151)	5 1/8 (130)	8 7/8 (225)	28	21 (533)	10 1/2 (267)	175

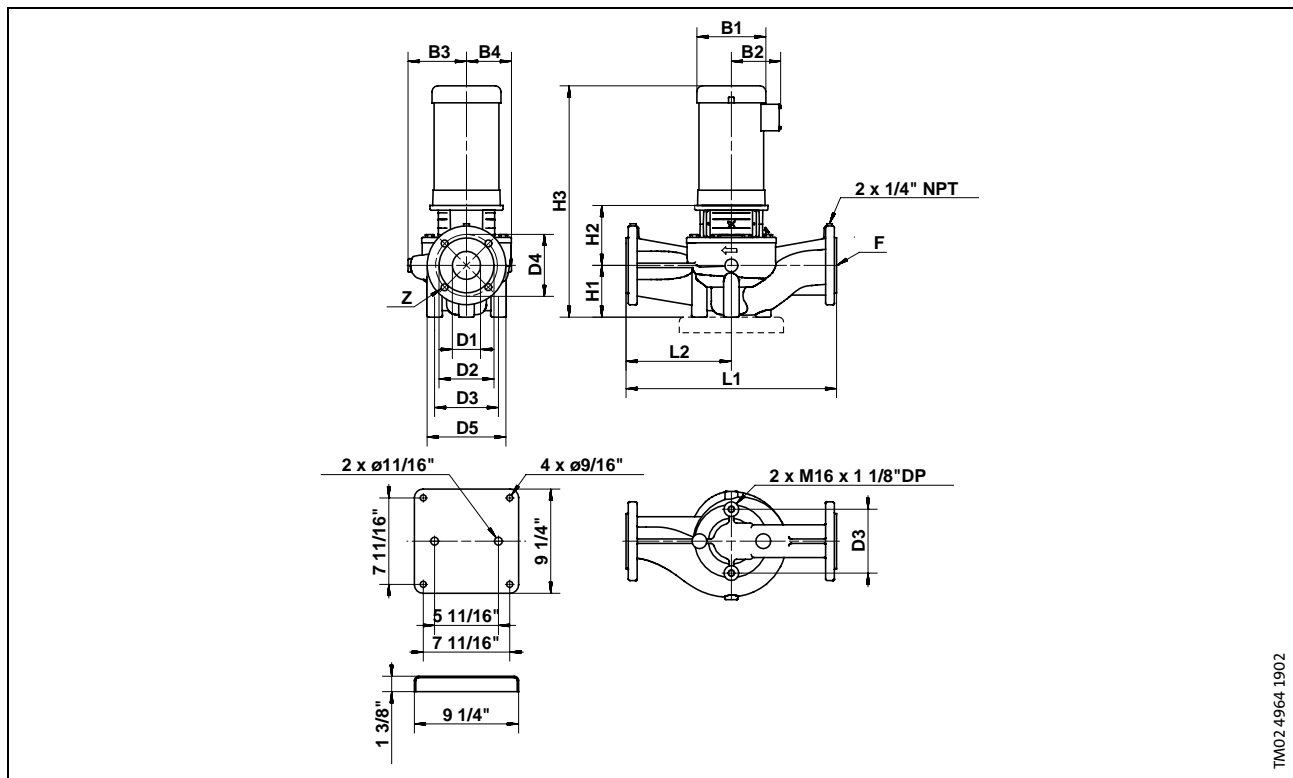
Technical Data

Flow Range:	60-350 U.S. GPM	Temperature Range:	5°-250°(-15°121°C)
Minimum Pumping Rate:	25 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	20-46 FEET	Flanges:	3" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

3.0 LM 8/XX



3.0 LM 8/XX



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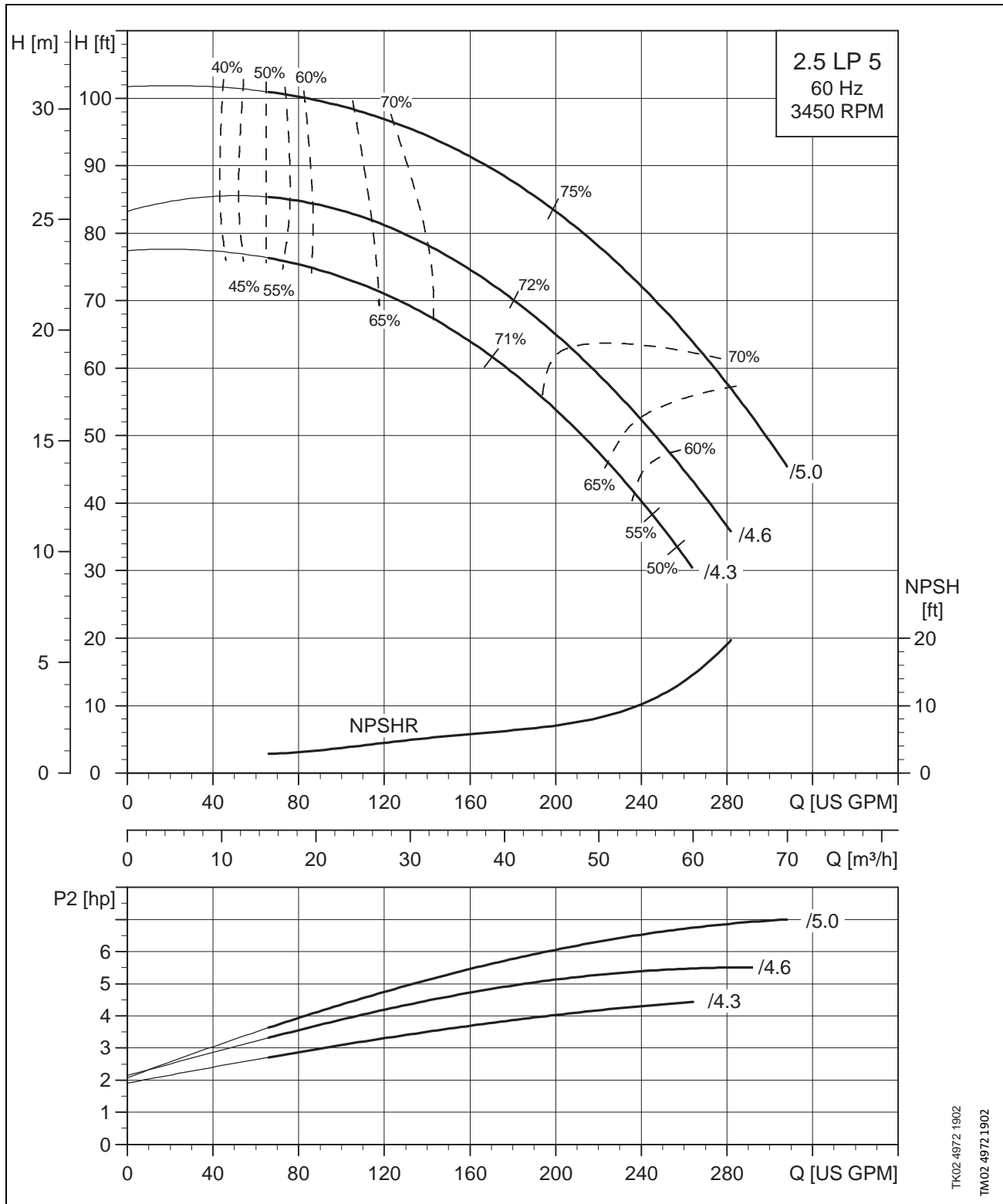
Electrical Data, Dimensions and Weights

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [inches] (mm)								Net Wt.	
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3	L1		L2
3.0 LM 8/7.4	5.0	1.15	1	215TC	230	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 1/4	7 3/8	7 1/8 (181)	5 15/16 (151)	5 1/8 (130)	8 7/8 (225)	30 1/8	21 (267)	10 1/2 (267)	200
	5.0	1.15	3	184TC	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	8 1/2	5 7/8	7 1/8 (181)	5 15/16 (151)	5 1/8 (130)	8 7/8 (225)	28	21 (267)	10 1/2 (267)	166
3.0 LM 8/8.3	7.5	1.15	1	215TC	230	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 3/8	7 7/16	7 1/8 (181)	5 15/16 (151)	5 1/8 (130)	9 7/8 (251)	31 11/16	21 (267)	10 1/2 (267)	214
	7.5	1.15	3	215TC	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 3/16	7 3/8	7 1/8 (181)	5 15/16 (151)	5 1/8 (130)	9 7/8 (251)	30 9/16	21 (267)	10 1/2 (267)	200

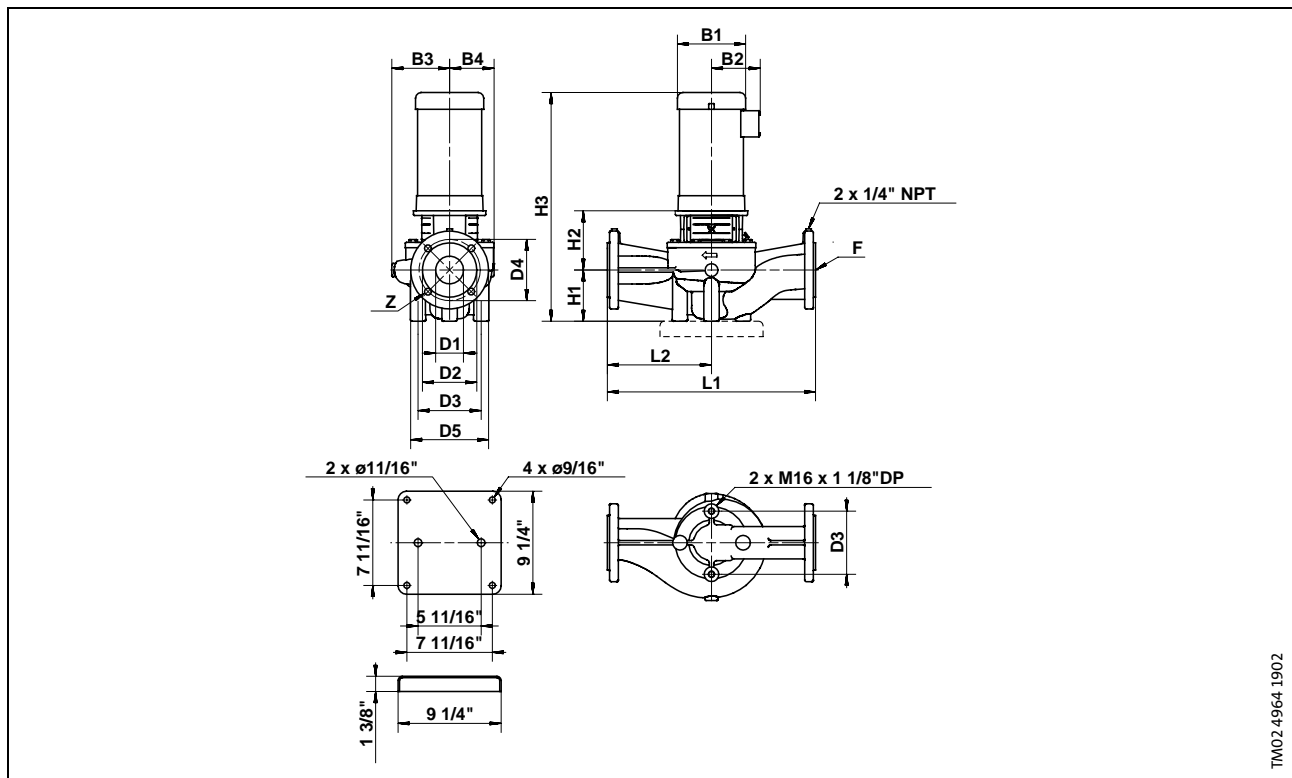
Technical Data

Flow Range:	60-380 U.S. GPM	Temperature Range:	5°-250°(-15°121°C)
Minimum Pumping Rate:	25 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	44-72 FEET	Flanges:	3" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

2.5 LP 5/XX



2.5 LP 5/XX



TM02 4964 1902

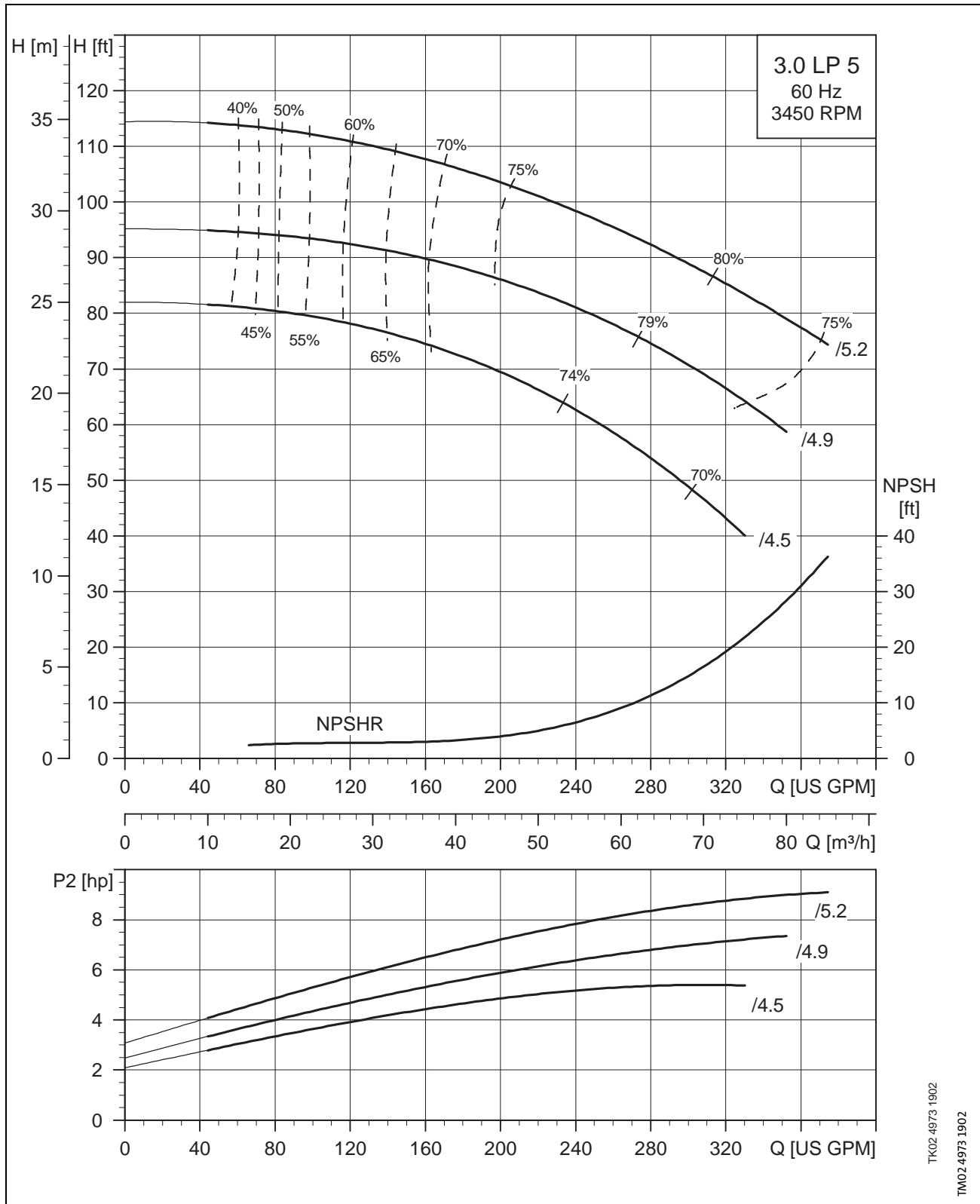
Electrical Data, Dimensions and Weights

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [inches] (mm)								Net Wt.	
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3	L1		L2
2.5 LP 5/4.3	5.0	1.15	1	213TC	208-230	2 1/2 (64)	5 11/16 (145)	5 1/4 (140)	7 (178)	4 x 5/8 4x(16)	10 1/4	7 3/8	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	6 (152)	26 11/16	19 (483)	9 1/2 (241)	188
	5.0	1.15	3	184TC	208-230/460,575	2 1/2 (64)	5 11/16 (145)	5 1/4 (140)	7 (178)	4 x 5/8 4x(16)	8 1/2	5 7/8	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	6 (152)	24 1/2	19 (483)	9 1/2 (241)	159
2.5 LP 5/4.6	5.0	1.15	1	213TC	208-230	2 1/2 (64)	5 11/16 (145)	5 1/4 (140)	7 (178)	4 x 5/8 4x(16)	10 1/4	7 3/8	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	6 (152)	26 11/16	19 (483)	9 1/2 (241)	188
	5.0	1.15	3	184TC	208-230/460,575	2 1/2 (64)	5 11/16 (145)	5 1/4 (140)	7 (178)	4 x 5/8 4x(16)	8 1/2	5 7/8	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	6 (152)	24 1/2	19 (483)	9 1/2 (241)	159
2.5 LP 5/5.0	7.5	1.15	1	213TC	208-230	2 1/2 (64)	5 11/16 (145)	5 1/4 (140)	7 (178)	4 x 5/8 4x(16)	10 1/4	7 3/8	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	7 15/16 (202)	28 1/8	19 (483)	9 1/2 (241)	202
	7.5	1.15	3	215TC	208-230/460,575	2 1/2 (64)	5 11/16 (145)	5 1/4 (140)	7 (178)	4 x 5/8 4x(16)	8 1/2	5 7/8	5 1/8 (130)	4 3/8 (111)	4 9/16 (116)	7 15/16 (202)	26 7/16	19 (483)	9 1/2 (241)	186

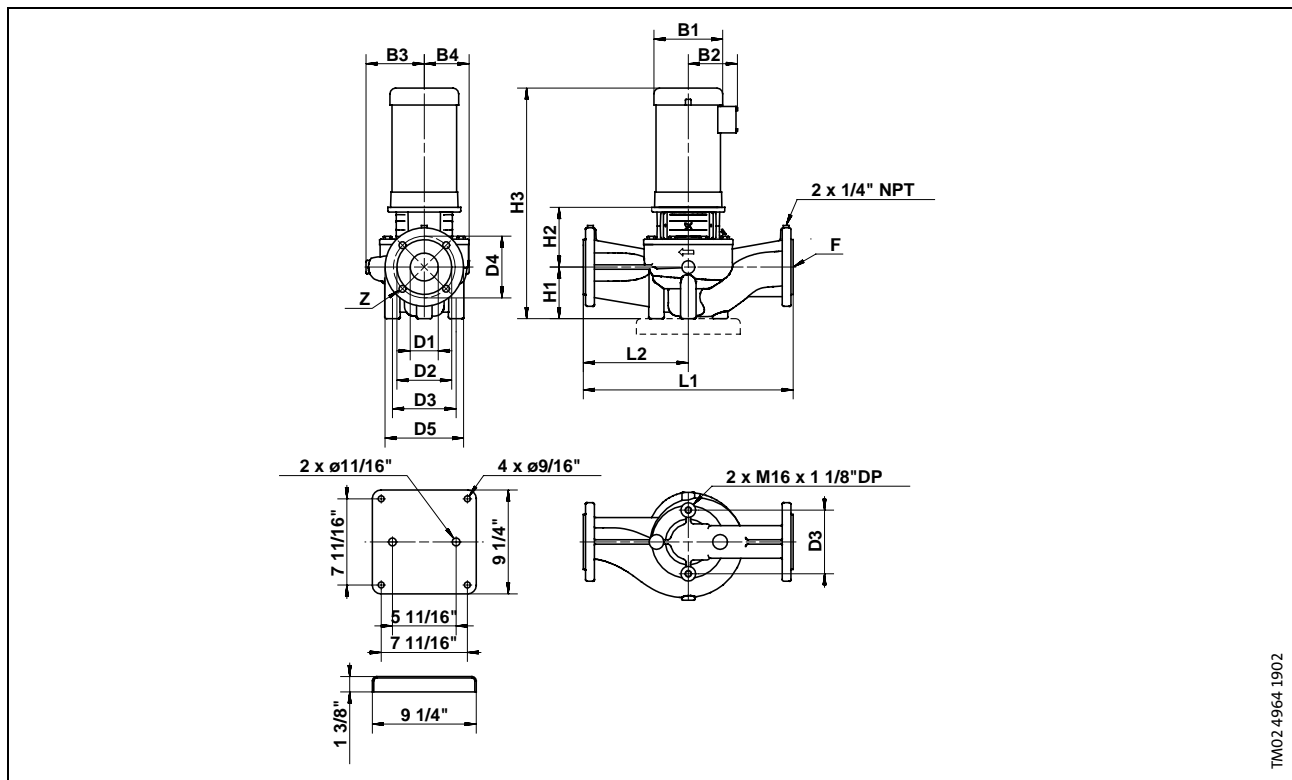
Technical Data

Flow Range:	44-285 U.S. GPM	Temperature Range:	5°-250°(-15°121°C)
Minimum Pumping Rate:	15 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	37-105 FEET	Flanges:	2 1/2" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

3.0 LP 5/XX



3.0 LP 5/XX



TM02 4964 1902

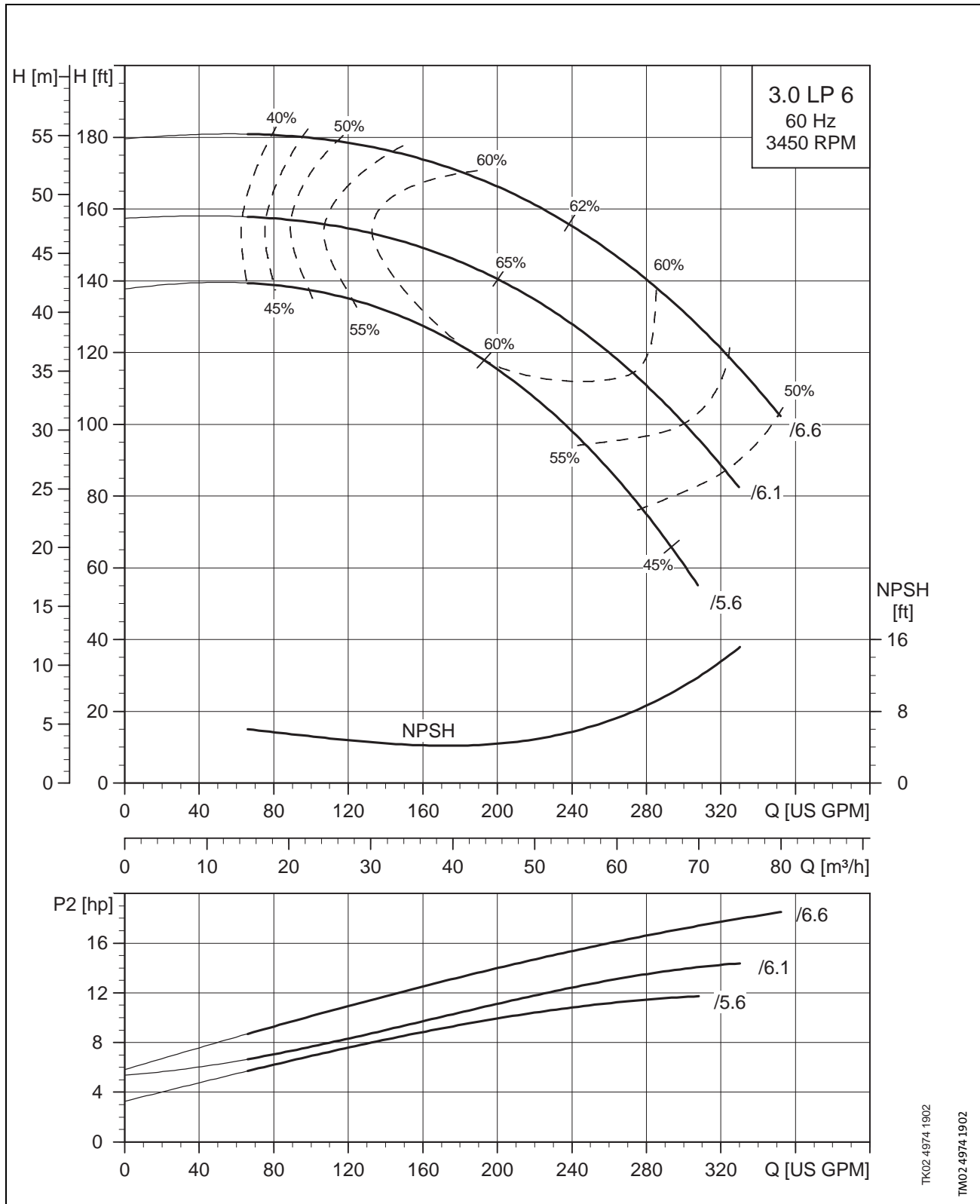
Electrical Data, Dimensions and Weights

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [inches] (mm)								Net Wt.	
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3	L1		L2
3.0 LP 5/4.5	5.0	1.15	1	213TC	208-230	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 1/4	7 3/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	6 (152)	27 1/4	21 (533)	10 1/2 (267)	194
	5.0	1.15	3	184TC	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	8 1/2	5 7/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	6 (152)	25 1/16	21 (533)	10 1/2 (267)	163
3.0 LP 5/4.9	7.5	1.15	1	213TC	208	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 1/4	7 3/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	7 15/16 (202)	28 11/16	21 (533)	10 1/2 (267)	208
	7.5	1.15	3	215TC	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	8 1/2	5 7/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	7 15/16 (202)	27	21 (533)	10 1/2 (267)	190
3.0 LP 5/5.2	10	1.15	1	215TC	230	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 1/4	7 3/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	7 15/16 (202)	29 3/4	21 (533)	10 1/2 (267)	222
	10	1.15	3	215TC	208-230/460,575	3 (76)	5 11/16 (145)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 1/4	7 3/8	6 1/4 (159)	4 7/8 (124)	5 1/8 (130)	7 15/16 (202)	28 5/8	21 (533)	10 1/2 (267)	192

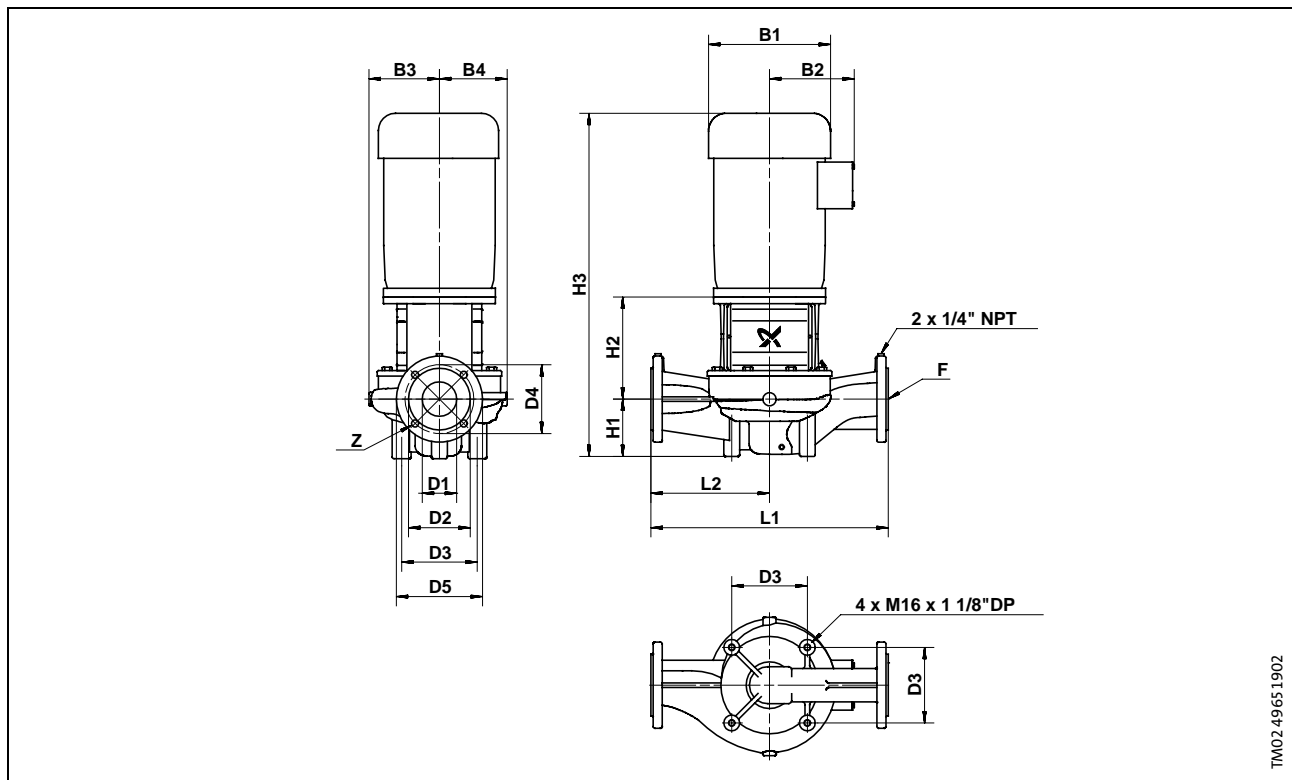
Technical Data

Flow Range:	66-370 U.S. GPM	Temperature Range:	5°-250°(-15°-121°C)
Minimum Pumping Rate:	25 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	38-114 FEET	Flanges:	3" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

3.0 LP 6/XX



3.0 LP 6/XX



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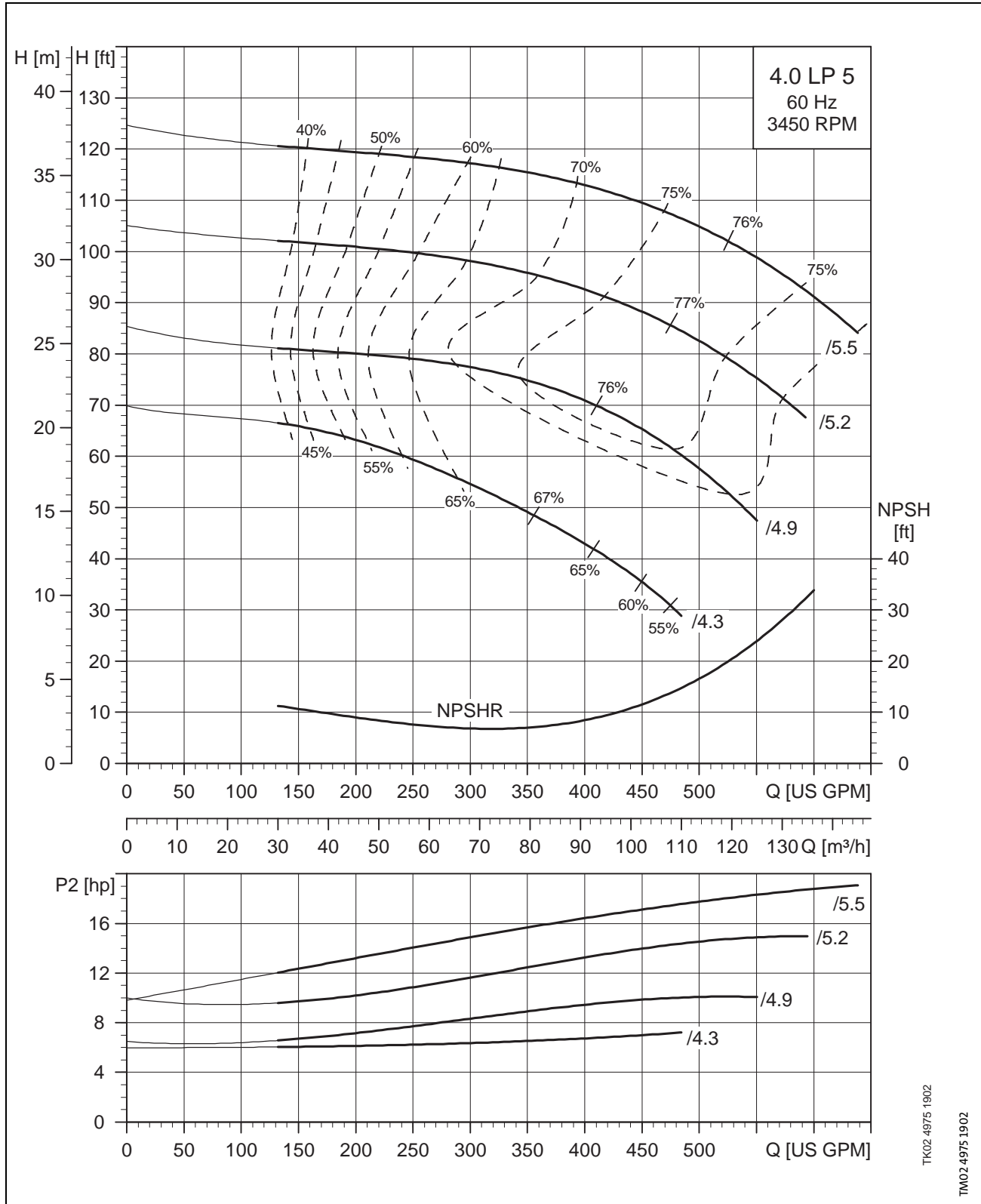
Electrical Data, Dimensions and Weights

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [inches] (mm)								Net Wt.	
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3	L1		L2
3.0 LP 6/5.6	15	1.15	3	254TC	208-230/ 460,575	3 (76)	6 5/8 (168)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 3/16	7 3/8	6 3/16 (157)	5 15/16 (151)	5 1/8 (130)	8 7/16 (214)	29 1/8	21 (533)	10 1/2 (267)	210
3.0 LP 6/6.1	15	1.15	3	254TC	208-230/ 460,575	3 (76)	6 5/8 (168)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	10 3/16	7 3/8	6 3/16 (157)	5 15/16 (151)	5 1/8 (130)	8 7/16 (214)	29 1/8	21 (533)	10 1/2 (267)	210
3.0 LP 6/6.6	20	1.15	3	284TSC	230/ 460,575	3 (76)	6 5/8 (168)	6 (152)	7 1/2 (191)	4 x 5/8 4x(16)	11 1/8	8 15/16	6 3/16 (157)	5 15/16 (151)	5 1/8 (130)	7 3/4 (197)	37	21 (533)	10 1/2 (267)	310

Technical Data

Flow Range:	66-330 U.S. GPM	Temperature Range:	5°-250°(-15°121°C)
Minimum Pumping Rate:	25 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	70-180 FEET	Flanges:	3" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

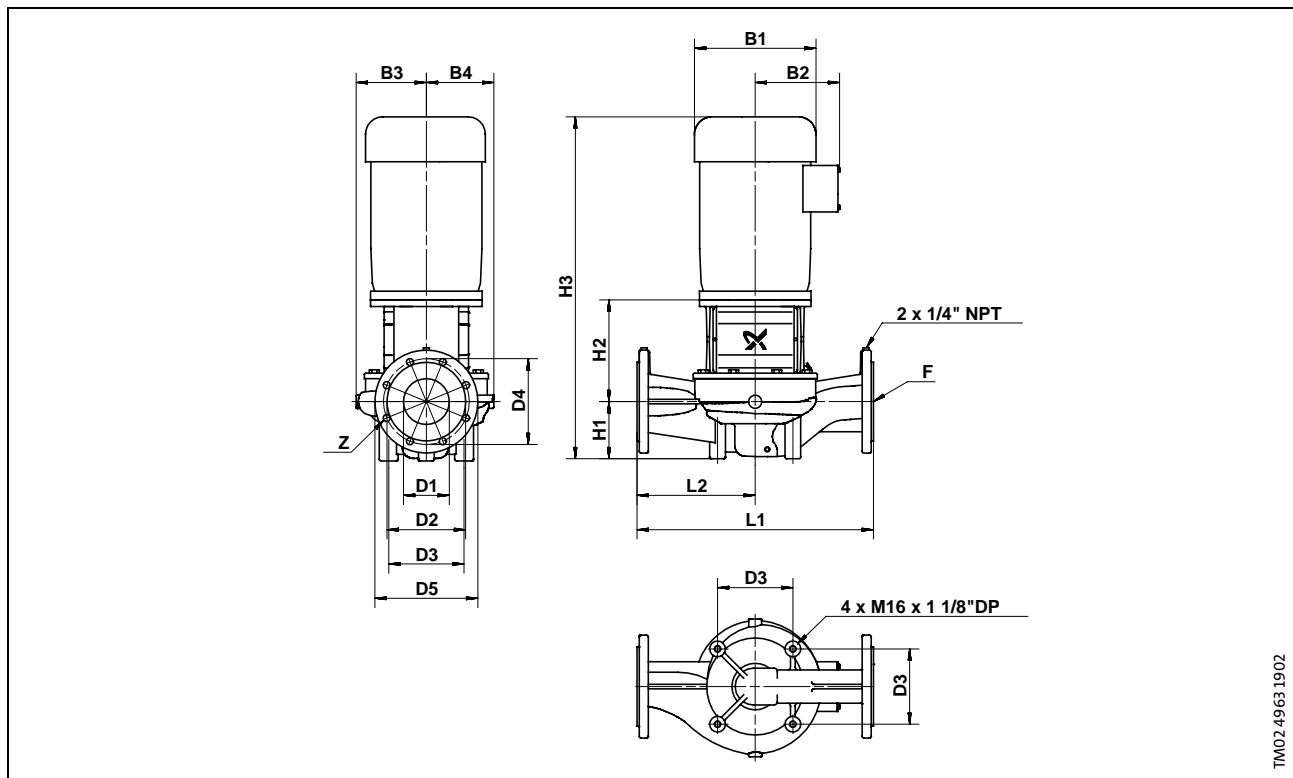
4.0 LP 5/XX



TK02 4975 1902

TM02 4975 1902

4.0 LP 5/XX



TM02.4963.1902

Electrical Data, Dimensions and Weights

Pump Type	HP	Mtr S.F.	PH	NEMA Frame Size	Volts	Dimensions [Inches] (mm)				Z [Qty.]	Dimensions [inches] (mm)								Net Wt.	
						D1	D3	D4	D5		B1	B2	B3	B4	H1	H2	H3	L1		L2
4.0 LP 5/4.3	7.5	1.15	1	213TC	208-230	4 (102)	6 5/8 (168)	7 1/2 (191)	7 1/2 (191)	8 x 5/8 8x(16)	10 1/4	7 3/8	6 3/4 (172)	5 9/16 (141)	5 1/8 (130)	9 13/16 (249)	30 1/2	21 (533)	10 1/2 (267)	225
	7.5	1.15	3	215TC	208-230/460,575	4 (102)	6 5/8 (168)	7 1/2 (191)	7 1/2 (191)	8 x 5/8 8x(16)	8 1/2	5 7/8	6 3/4 (172)	5 9/16 (141)	5 1/8 (130)	9 13/16 (249)	28 7/8	21 (533)	10 1/2 (267)	195
4.0 LP 5/4.9	10	1.15	1	215TC	230	4 (102)	6 5/8 (168)	7 1/2 (191)	7 1/2 (191)	8 x 5/8 8x(16)	10 1/4	7 3/8	6 3/4 (172)	5 9/16 (141)	5 1/8 (130)	9 13/16 (249)	31 11/16	21 (533)	10 1/2 (267)	227
	10	1.15	3	215TC	208-230/460,575	4 (102)	6 5/8 (168)	7 1/2 (191)	7 1/2 (191)	8 x 5/8 8x(16)	10 1/4	7 3/8	6 3/4 (172)	5 9/16 (141)	5 1/8 (130)	9 13/16 (249)	30 1/2	21 (533)	10 1/2 (267)	197
4.0 LP 5/5.2	15	1.15	3	254TC	208-230/460,575	4 (102)	6 5/8 (168)	7 1/2 (191)	7 1/2 (191)	8 x 5/8 8x(16)	10 3/16	7 3/8	6 3/4 (172)	5 9/16 (141)	5 1/8 (130)	9 13/16 (249)	30 1/2	21 (533)	10 1/2 (267)	220
4.0 LP 5/5.5	20	1.15	3	284TSC	230/460,575	4 (102)	6 5/8 (168)	7 1/2 (191)	7 1/2 (191)	8 x 5/8 8x(16)	11 1/8	8 15/16	6 3/4 (172)	5 9/16 (141)	5 1/8 (130)	9 (230)	38 1/4	21 (533)	10 1/2 (267)	320

Technical Data

Flow Range:	110-620 U.S. GPM	Temperature Range:	5°-250°(-15°-121°C)
Minimum Pumping Rate:	50 U.S. GPM	Maximum Working Pressure:	175 PSI
Head Range:	35-125 FEET	Flanges:	4" ANSI 125 LB. F.F.
Motors:	TEFC (STANDARD); ODP (OPTIONAL)		

LM Technical Product List

Pump Type	Mtr. Brand	HP	Mtr S.F.	PH	Volts	I - Max Amps	I - Start Amps	F/L Efficiency [%]	Speed RPM
2.5 LM 5/4.6	Baldor	3/4	1.25	1	115/208-230	11/6-5.5	69.2/38.25-34.6	68	1725
			1.25	3	208-230/460	3.2-3.0/1.5	22.1-20.0/10	75.5	
2.5 LM 5/5.2	Baldor	1-1/2	1.15	1	115/208-230	16/8.2-8	228/114	74.4	1725
			1.15	3	208-230/460	5.3-5.0/2.5	37.6-34.0/17.0	77.9	
2.5 LM 6/6.2	Baldor	2	1.15	1	115/230	17.2/8.6	234/117	81	1725
			1.15	3	208-230/460	6.5-6.2/3.1	48.6-44/22	83.1	
2.5 LM 6/6.9	Baldor	3	1.15	1	115/208-230	28/15.5-14	210/116.1-105	81.4	1725
			1.15	3	208-230/460	8.5-8.2/4.1	77.4-70/35	84	
2.5 LM 8/8.0	Baldor	5	1.15	1	230	22	195	82.7	1725
			1.15	3	208-230/460	15-13.2/6.6	121.6-110/55	84.7	
3.0 LM 5/4.6	Baldor	1	1.15	1	115/208-230	13.0/7.6-6.5	74/40.9-37	66.6	1725
			1.25	3	208-230/460	3.6-3.4/1.7	25.4-23.0/11.5	79.2	
3.0 LM 5/5.0	Baldor	1-1/2	1.15	1	115/208-230	16/8.2-8	228/114	74.4	1725
			1.15	3	208-230/460	5.3-5.0/2.5	37.6-34.0/17.0	77.9	
3.0 LM 5/5.4	Baldor	2	1.15	1	115/230	17.2/8.6	234/117	81	1725
			1.15	3	208-230/460	6.5-6.2/3.1	48.6-44/22	83.1	
3.0 LM 6/6.3	Baldor	3	1.15	1	115/208-230	28/15.5-14	210/116.1-105	81.4	1725
			1.15	3	208-230/460	8.5-8.2/4.1	77.4-70/35	84	
3.0 LM 6/6.6	Baldor	5	1.15	1	230	22	195	82.7	1725
			1.15	3	208-230/460	15-13.2/6.6	121.6-110/55	84.7	
3.0 LM 8/7.4	Baldor	5	1.15	1	230	22	195	82.7	1725
			1.15	3	208-230/460	15-13.2/6.6	121.6-110/55	84.7	
3.0 LM 8/8.3	Baldor	7-1/2	1.15	1	230	38	-		1725
			1.15	3	208-230/460	21.5-20/10	179.1-162/81	87.3	

[*] TEFC motor enclosure .

[**] For data on 575 volt motors contact Grundfos Canada Inc.

LP Technical Product List

Pump Type	Mtr. Brand	HP	Mtr S.F.	PH	Volts	I - F/L Amps	I - Start Amps	F/L Efficiency [%]	Speed RPM
2.5 LP 5/4.3	Baldor	5	1.15	1	208-230	24-22	188-170	80	3450
	Grundfos		1.25	3	208-230/460	13.0/12.0/6.0	137.8/124.6/62.3	87.5	
2.5 LP 5/4.6	Baldor	5	1.15	1	208-230	24-22	188-170	80	3450
	Grundfos		1.15	3	208-230/460	13.0/12.0/6.0	137.8/124.6/62.3	87.5	
2.5 LP 5/5.0	Baldor	7-1/2	1.15	1	208-230	33.8-31	243.3-220	83.8	3450
	Grundfos		1.15	3	208-230/460	19.0/18.0/9.0	168.1/152.0/76.0	85.5	
3.0 LP 5/4.5	Baldor	5	1.15	1	208-230	24-22	188-170	80	3450
	Grundfos		1.15	3	208-230/460	13.0/12.0/6.0	137.8/124.6/62.3	87.5	
3.0 LP 5/4.9	Baldor	7-1/2	1.15	1	208-230	33.8-31	243.3-220	83.8	3450
	Grundfos		1.15	3	208-230/460	19.0-18.0/9.0	168.1-152.0/76.0	85.5	
3.0 LP 5/5.2	Baldor	10	1.15	1	230	40.0	284.0	83.9	3450
	Grundfos		1.25	3	208-230/460	27.0-25.0/12.5	195.5-176.8/88.4	85.5	
3.0 LP 6/5.6	Baldor	15	1.15	3	208-230/460	38.0-34.0/17.0	376.0-340.0/170	86.6	3450
3.0 LP 6/6.1	Baldor	15	1.15	3	208-230/460	38.0-34.0/17.0	376.0-340.0/170	86.6	3450
3.0 LP 6/6.6	Baldor	20	1.15	3	208-230/460	50.1-46/23	420/210	89.4	3500
4.0 LP 5/4.3	Baldor	7-1/2	1.15	1	208-230	33.8-31	243.3-220	83.8	3450
	Grundfos		1.15	3	208-230/460	19.0-18.0/9.0	168.1-152.0/76.0	85.5	
4.0 LP 5/4.9	Baldor	10	1.15	1	230	40.0	284.0	83.9	3450
	Grundfos		1.15	3	208-230/460	27.0-25.0/12.5	195.5-176.8/88.4	85.5	
4.0 LP 5/5.2	Baldor	15	1.15	3	208-230/460	38.0-34.0/17.0	376.0-340.0/170	86.6	3450
4.0 LP 5/5.5	Baldor	20	1.15	3	208-230/460	50.1-46/23	420/210	89.4	3500

[*] TEFC motor enclosure .

[**] For data on 575 volt motors contact Grundfos Canada Inc.

Series L Packaged flange sets*

For use with these models	Description	Approx. ship. wt. (lbs./oz.)	Material number
2.5 LM & LP	2½" Threaded Cast Iron, 125# Class	16 lbs.	559601
3.0 LM & LP	3" Threaded Cast Iron, 125# Class	19 lbs.	569601
4.0 LP	4" Threaded Cast Iron, 125# Class	33 lbs.	579801

Optional Shaft Seal Kits

For use with these models	Type, seal faces, elastomers	Designation	Material Number
All with 16mm shaft	Bellows Type, carbon/tungsten carbide, viton	BUBV	485371
All with 22mm shaft	Bellows Type, carbon/tungsten carbide, viton	BUBV	485372
All with 16mm shaft	O-ring Type, tungsten carbide/tungsten carbide, EPDM	AUUE	485113
All with 22mm shaft	O-ring Type, tungsten carbide/tungsten carbide, EPDM	AUUE	485114

Optional Shaft Seal Kits for use with Glycol/water mixtures

For use with these model	Type, seal faces, elastomer	Designation	Material Number
All with 16mm sha	Reduced face O-ring Type, tungsten carbide/tungsten carbide, EPDM & FKM	RUUE/V	985845
All with 22mm shaft	Reduced face O-ring Type, tungsten carbide/tungsten carbide, EPDM & FKM	RUUE/V	985909

Accessories

For use with these models	Description	Approx. ship. wt. (lbs./oz.)	Material number
All (Except 3.0 LP 6 & 4.0 LP 5)**	Baseplate Assembly	7 lbs.	4800018

* Flange set includes two (2) flanges, two (2) gaskets, and eight (8) nuts and bolts.

** Baseplate assembly not available for these models.

Submittal Data Sheet



Company name: _____
Prepared by: _____
Phone number: () - _____
Fax number: () - _____
Date: _____ Page 1 of: _____
Quote number: _____

Client Information

Project title: _____	Client name: _____
Reference number: _____	Client number: _____
Client contact: _____	Client phone no: () - _____

Location Information

For: _____	Unit: _____
Site: _____	Service: _____
Address: _____	City: _____ State: _____ Zip Code: _____

Technical Data

Flow (GPM) _____
Head (Ft) _____
Motor _____
Max Fluid Temp _____
Min Fluid Temp _____
Max Working Pressure _____
Min Required Inlet Pressure _____
Connection Type and Size _____

Motor Information

HP: _____
Phase: _____
Voltage: _____
Enclosure: _____

Pump Information

Model Information from Type Key and Codes: _____	
Quantity Required: _____	Example: UP-S-15-58-FC
Minimum required flow: _____	NPSH required at duty point: _____
Product Guide additional information pages	
Materials page number: _____	Performance curve page number: _____
Technical data page number: _____	Motor data page number: _____

Custom-built pump information (optional): _____

Additional Information

Notes

Notes

Notes

L-MLP-PG-01 Rev. 10/07
Printed in the USA

Subject to alterations.