

TPMK Series

Immersible Pump

IE3 High Efficiency Motor



Number: 65-703-0383

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TPMK Series Immersible Pump



TPMK5T9-9

50Hz

Power: 1.1 - 3.0 kW

Head: Up to 130 M

Flow: Up to 150 L/min

60Hz

Power: 1.1 - 3.7 kW

Head: Up to 140 M

Flow: Up to 160 L/min

Outlet: 1"

Applications

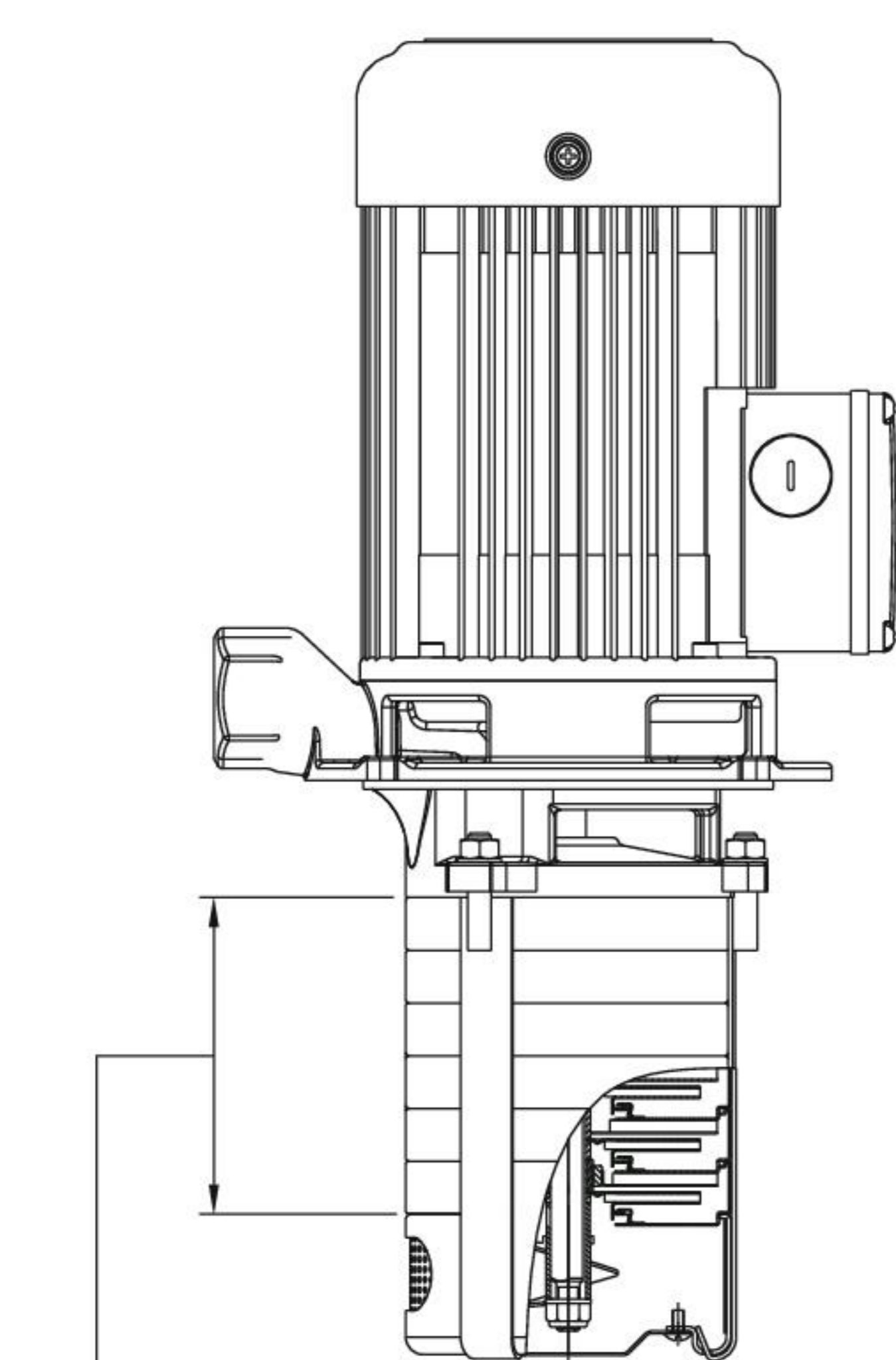
The TPMK is vertical multistage centrifugal pump, designed for industrial use, specially for machine tool. It is suitable to carry fluids such as water, coolant, light oil and other clean, non aggressive matters:

- Industrial circulation system
- Washing/cleaning system
- Filtration system

Operating Conditions

- 1.Liquid temperature : +0°C ~ +90°C
- 2.Ambient temperature : Max. +40°C
- 3.Enclosure class : IP54
- 4.Operating pressure : Max.15kg/cm²
- 5.Submerged depth : Min. 40mm
- 6.Stainer Diameter : Ø2mm
- 7.Particle Size : Below 2mm
- 8.Liquids maximum content of solid particles in suspension : 50g/m³
- 9.Kinematical Viscosity : 32cst(mm²/s)

Model code



- TPMK 5T 6-6 S
- Stainless steel series
 - Number of Impellers
 - Number of Stages
 - Standard capacity (m³/h)
 - Model name

Pump Construction

Submersible vertical centrifugal pump, self-priming, co-axial pump-motor design, impellers mounted on extended motor shaft. Main working parts made by stainless steel.

Motor

Enclosure class : IP54

Insulation class : F.

Nominal speed : 2900 or 3500 rpm

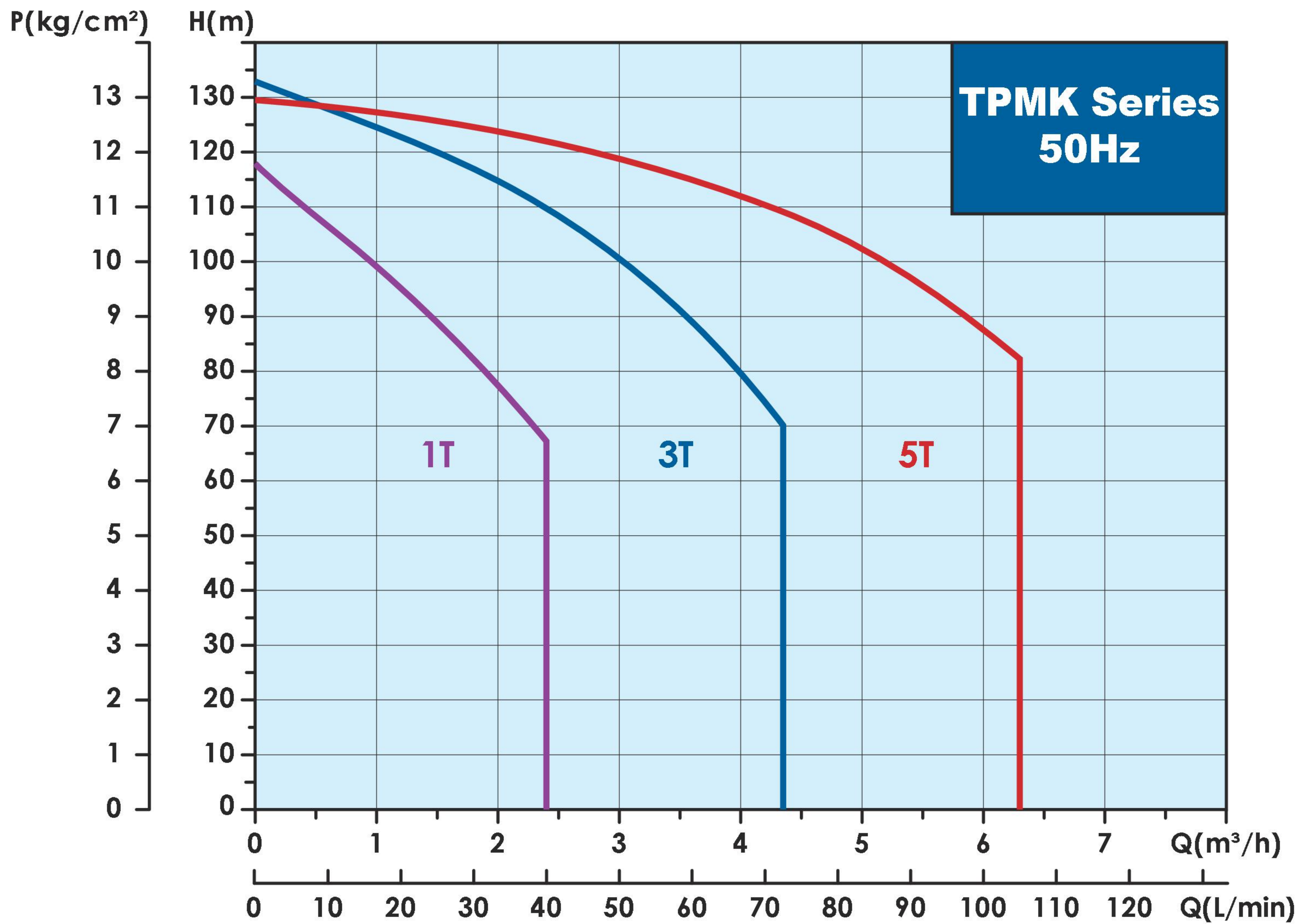
Frequency range : 50 or 60 Hz

Voltages Code :

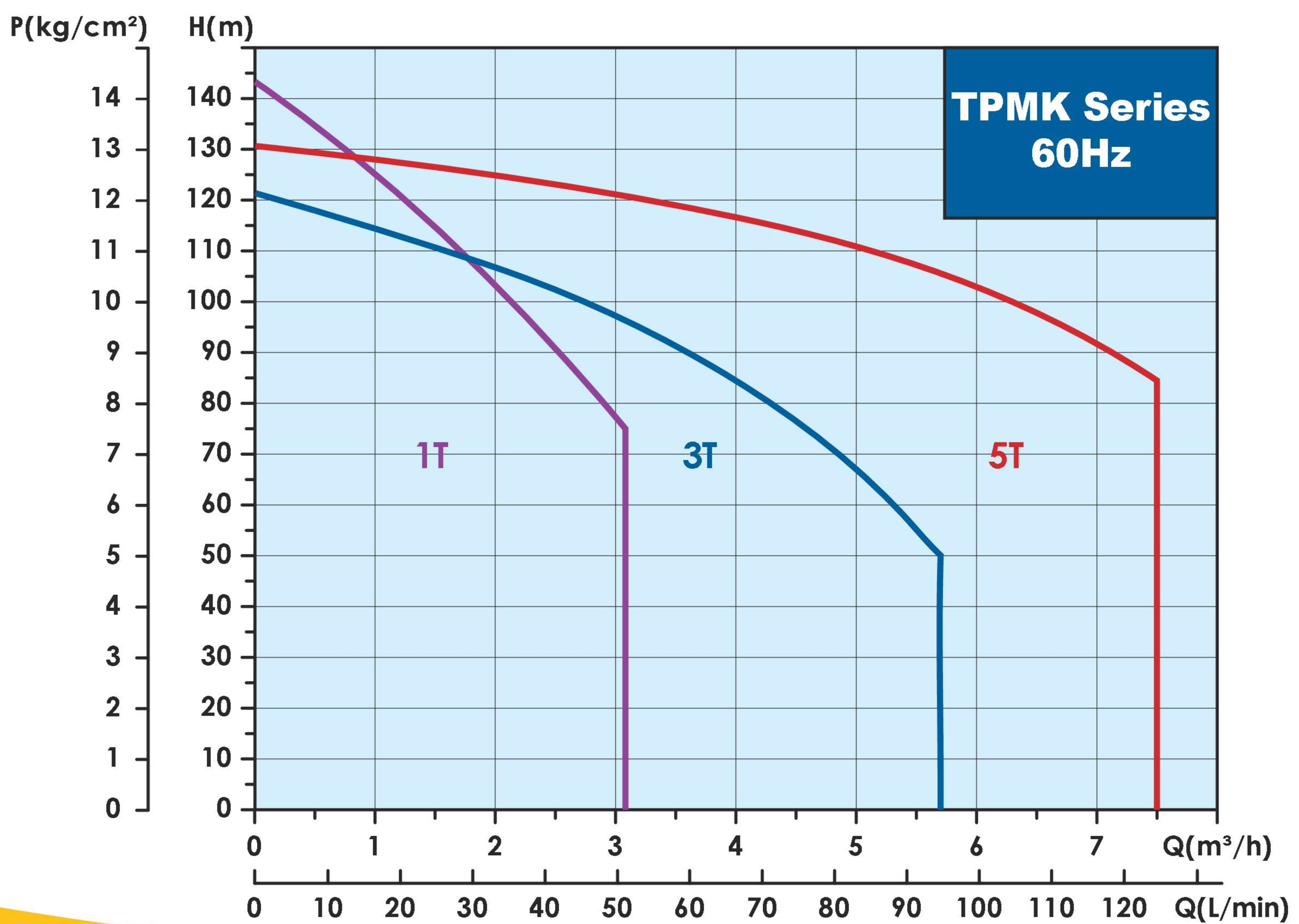
Code	PH	50Hz	60Hz
6V	3	200-230/342-415	220-240/380-480
9V	3	200-230/342-380	220-240/380-440

TPMK Series Immersible Pump

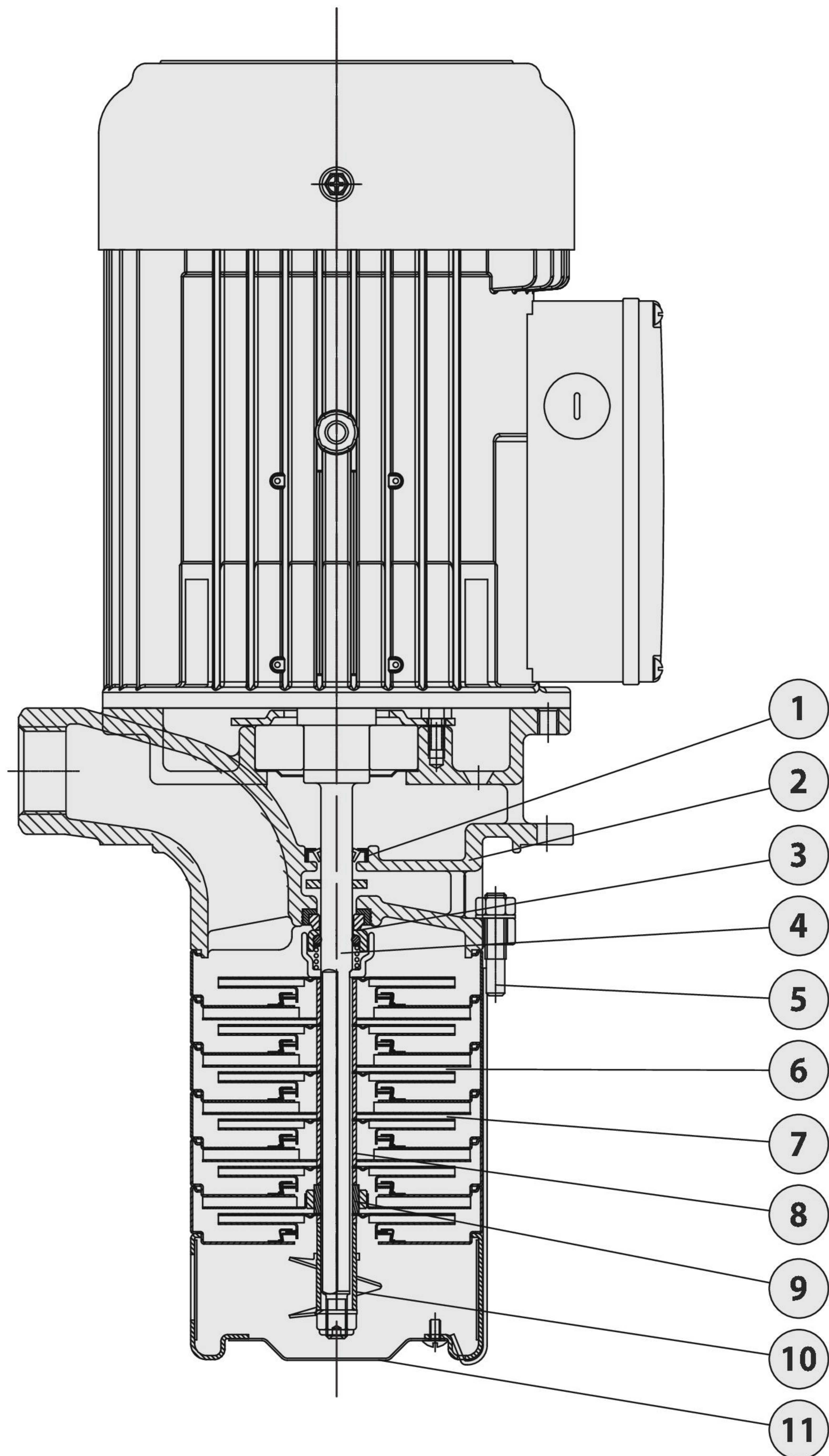
Performance curve (50Hz)



Performance curve (60Hz)



Sectional drawing



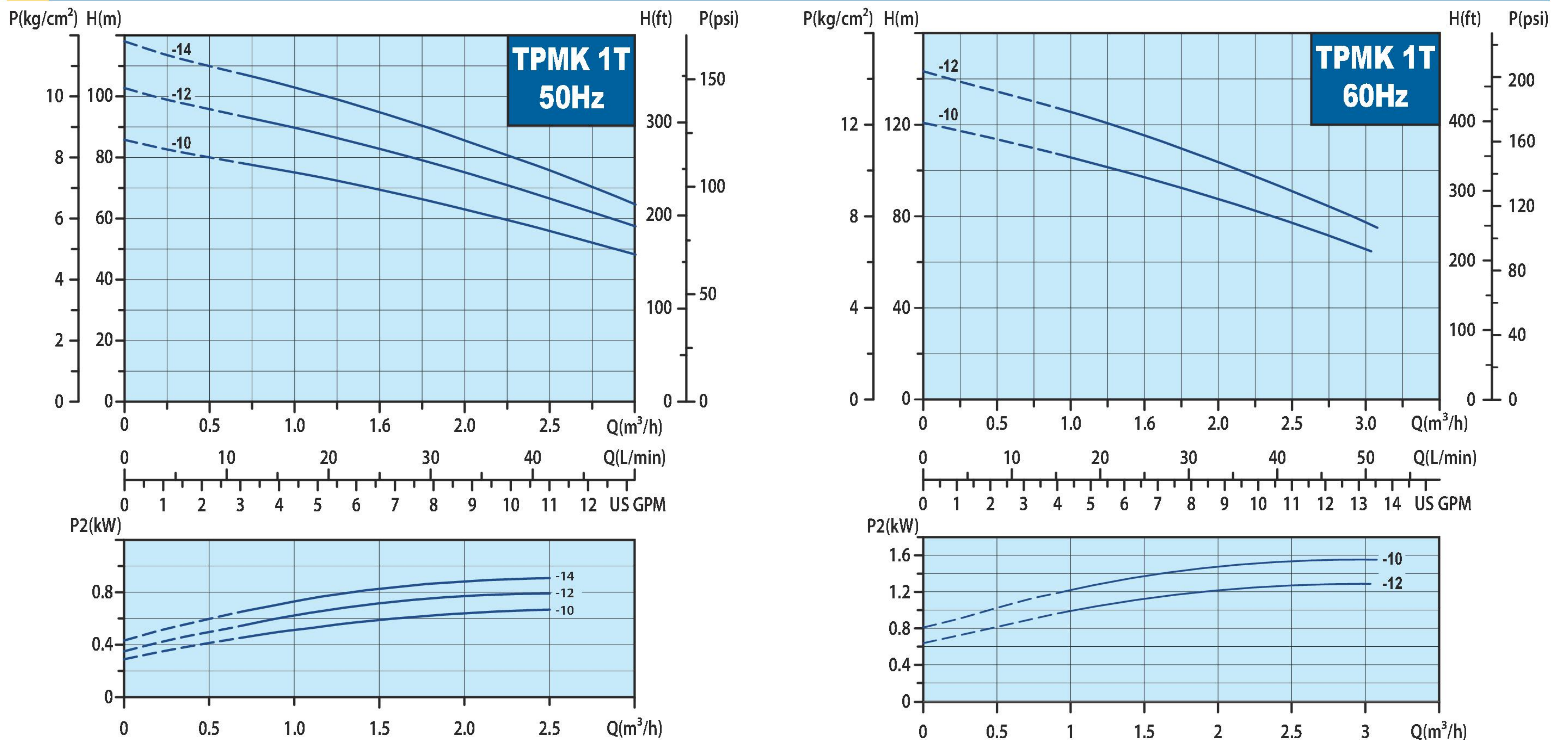
Materials

No.	Part name	Material	
		Standard	S series
1	Oil seal	NBR	
2	Pump Casing	FC 20	SUS 304
3	Mechanical Seal	MSSH / MGSH	
4	Shaft	SUS 304	
5	Strap	SUS 304	
6	Impeller	SUS 304	
7	Intermediate Chamber	SUS 304	
8	Sleeve	SUS 304	
9	Bearing	SIC	
10	Priming screw	SUS304	
11	Filter	SUS 304	

Mechanical seal type	Material	
	Stationary Face/ Rotary Face	Cup Gasket & O Ring
MGSH MGSV MGSE	(G)Carbon (S)Silicium Carbide	(H)HNBR (V)Viton
MSSH MSSV MSSE	(S)Silicium Carbide (S)Silicium Carbide	(E)EPDM

TPMK 1T

Performance curve



Dimensions

50Hz, 2900rpm

Model	Dimensions (mm)						N.W (kg)
	L	A	B	C	D	E	
TPMK1T10-10(S)	554	284	270	232	111	145	17.6
TPMK1T12-12(S)	590	284	306	232	111	145	18.1
TPMK1T14-14(S)	626	284	342	232	111	145	18.6

50Hz/60Hz, 2900/3500rpm

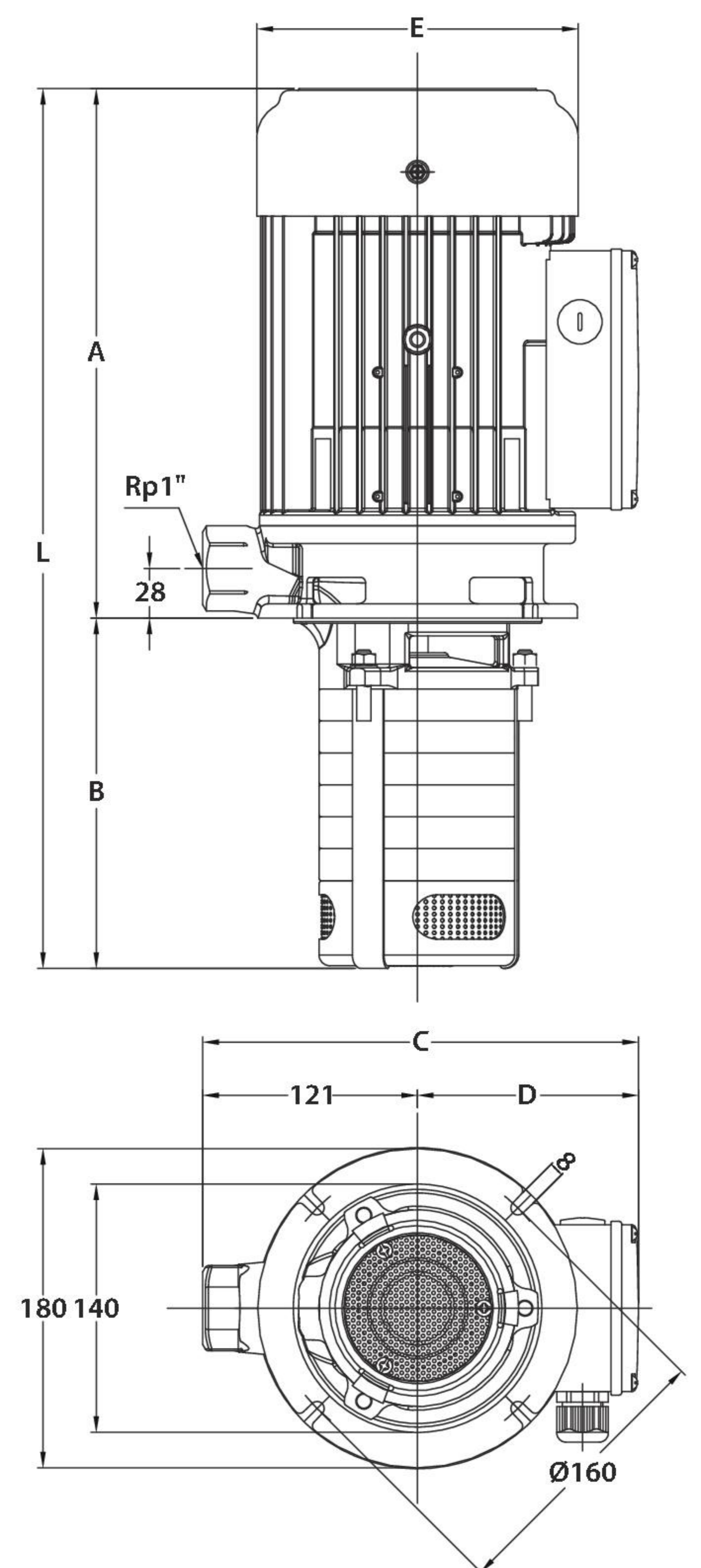
TPMK1T10-10(S)	569	299	270	244	123	181	18.4
TPMK1T12-12(S)	605	299	306	244	123	181	18.9

Electrical data 50Hz, 2900rpm

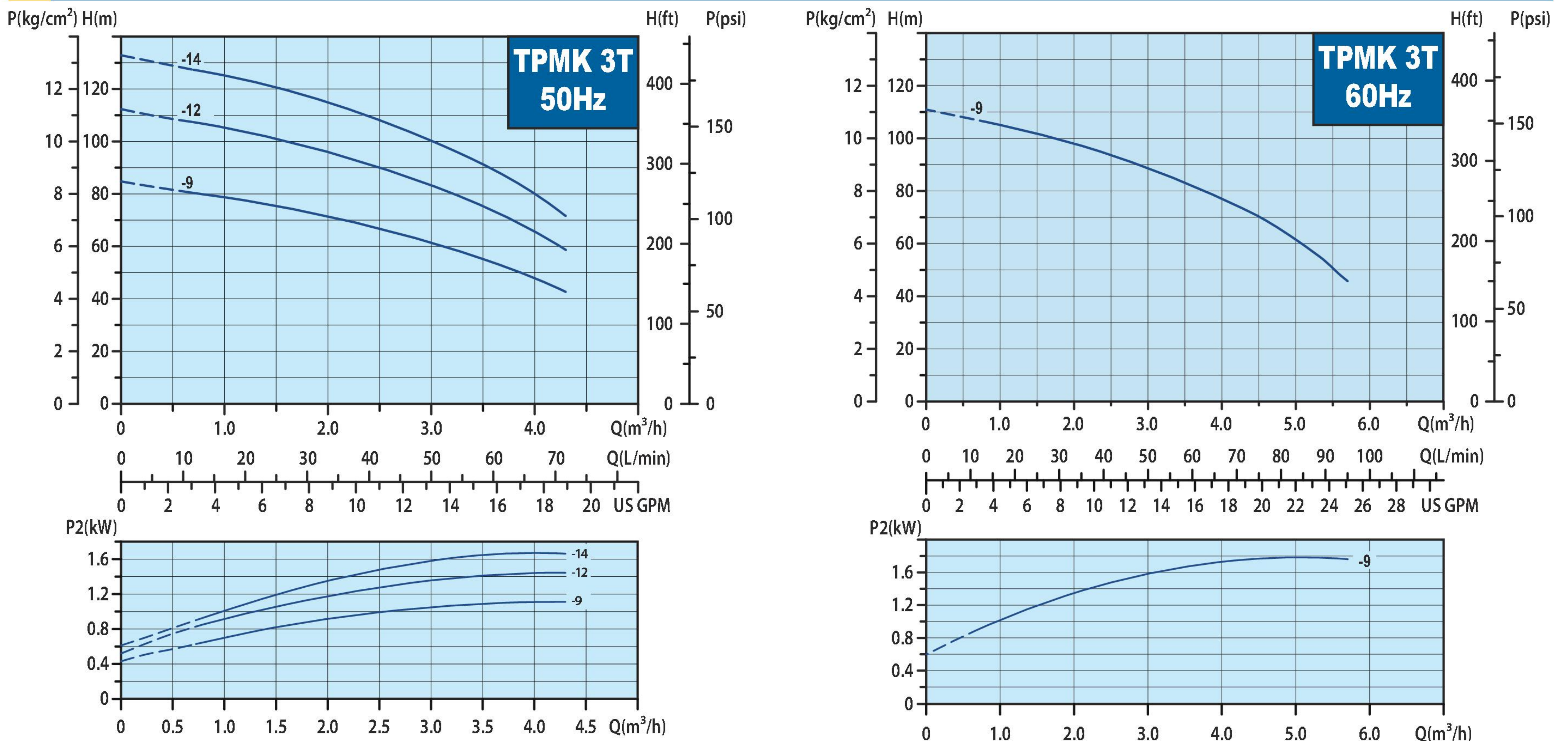
Model	PH (Ø)	Cycle (Hz)	Volts (V)	P2 (kW)	Ampere I _{1/1} (A)	Ampere I _{max} (A)
TPMK1T10-10(S)	3	50	200-230/342-415	1.1	5.2-5.4/3.1-3.4	5.5-5.7/3.3-3.5
TPMK1T12-12(S)	3	50	200-230/342-415	1.1	5.2-5.4/3.1-3.4	5.5-5.7/3.3-3.5
TPMK1T14-14(S)	3	50	200-230/342-415	1.1	5.2-5.4/3.1-3.4	5.5-5.7/3.3-3.5

Electrical data 50Hz/60Hz, 2900/3500rpm

Mtodel	PH (Ø)	Cycle (Hz)	Volts (V)	P2 (kW)	Ampere I _{1/1} (A)	Ampere I _{max} (A)
TPMK1T10-10(S)	3	50	200-230/342-380	1.5	6.3-6.1/3.6-3.5	6.8-6.5/3.9-3.7
		60	220-240/380-440		5.8-5.5/3.4-3.1	8.3-7.6/4.8-4.2
TPMK1T12-12(S)	3	50	200-230/342-380	1.5	6.3-6.1/3.6-3.5	6.8-6.5/3.9-3.7
		60	220-240/380-440		5.8-5.5/3.4-3.1	8.3-7.6/4.8-4.2



Performance curve



Dimensions

50Hz, 2900rpm

Model	Dimensions(mm)						N.W (kg)
	L	A	B	C	D	E	
TPMK3T9-9(S)	536	284	252	232	111	145	17.3
TPMK3T12-12(S)	605	299	306	244	123	181	18.8
TPMK3T14-14(S)	663	321	342	244	123	181	22.1

50Hz/60Hz, 2900/3500rpm

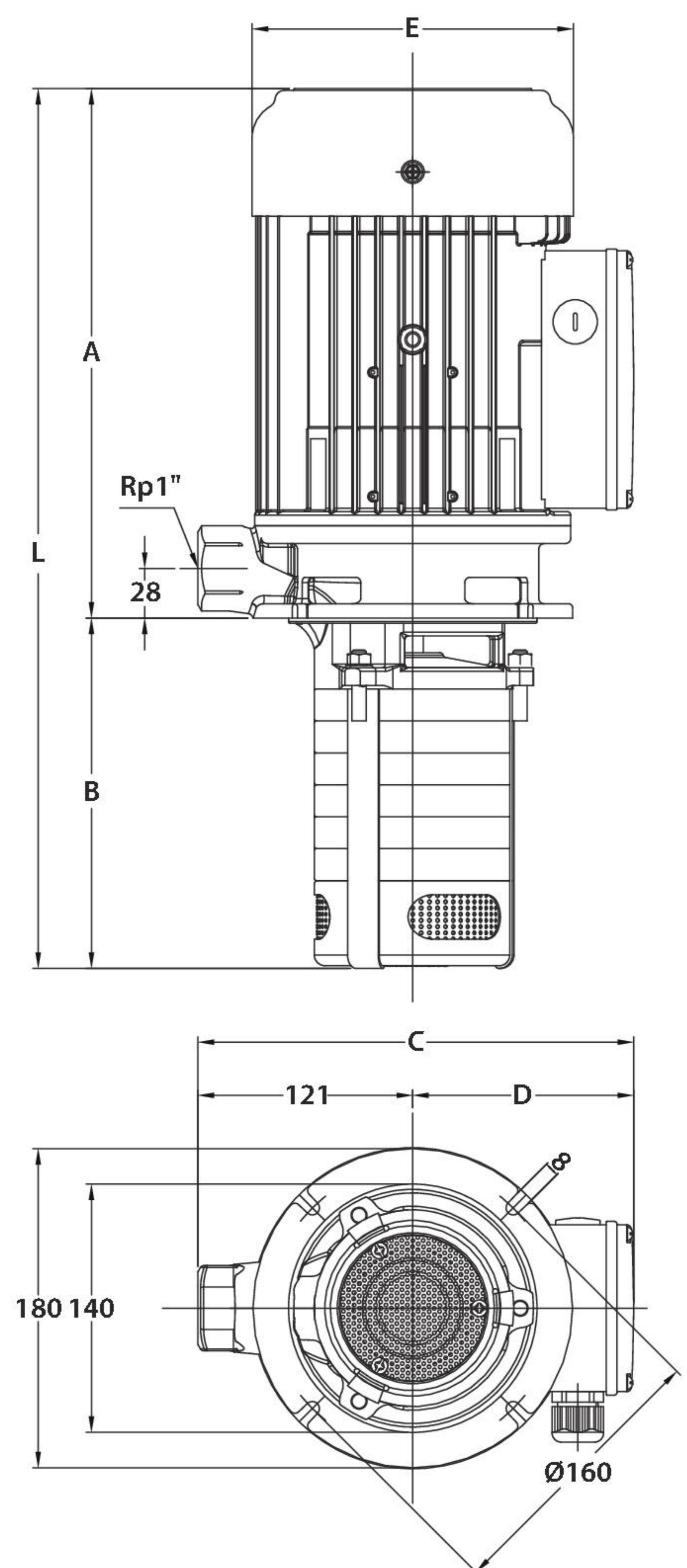
TPMK3T9-9(S)	573	321	252	244	123	181	20.9
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Electrical data 50Hz, 2900rpm

Model	PH (Ø)	Cycle (Hz)	Volts (V)	P2 (kW)	Ampere I _{1/1} (A)	Ampere I _{max} (A)
TPMK3T9-9(S)	3	50	200-230/342-380	1.1	5.2-5.4/3.1-3.4	5.5-5.7/3.3-3.5
TPMK3T12-12(S)	3	50	200-230/342-380	1.5	6.3-6.1/3.6-3.5	6.8-6.5/3.9-3.7
TPMK3T14-14(S)	3	50	200-230/342-380	2.2	9.5-10.5/5.5-5.6	10.2-10.9/5.9-5.9

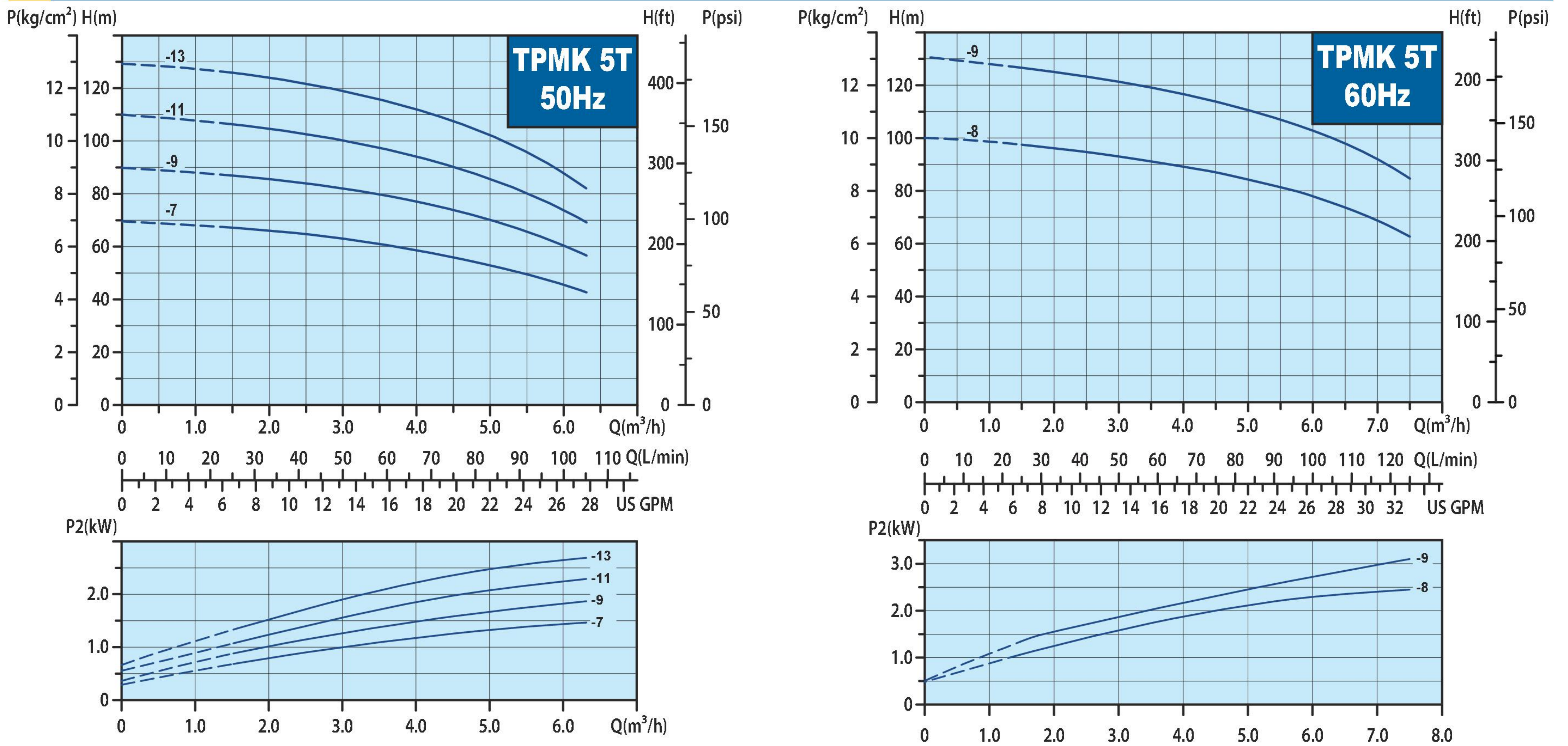
Electrical data 50Hz/60Hz, 2900/3500rpm

Model	PH (Ø)	Cycle (Hz)	Volts (V)	P2 (kW)	Ampere I _{1/1} (A)	Ampere I _{max} (A)
TPMK3T9-9(S)	3	50	200-230/342-380	2.2	9.5-10.5/5.5-5.6	10.2-10.9/5.9-5.9
		60	220-240/380-440		8.6-8.4/4.9-5.0	12.1-11.2/6.9-6.4



TPMK 5T

Performance curve



Dimensions

50Hz, 2900rpm

Model	Dimensions(mm)						N.W (kg)
	L	A	B	C	D	E	
TPMK5T7-7(S)	515	299	216	244	123	181	17.6
TPMK5T9-9(S)	573	321	252	244	123	181	20.9
TPMK5T11-11(S)	634	346	288	244	123	181	24.6
TPMK5T13-13(S)	670	346	324	244	123	181	25.1

50Hz/60Hz, 2900/3500rpm

TPMK5T8-8(S)	580	346	234	244	123	181	23.9
TPMK5T9-9(S)	618	366	252	244	123	181	25.8

Electrical data 50Hz, 2900rpm

Model	PH (Ø)	Cycle (Hz)	Volts (V)	P2 (kW)	Ampere I _{1/1} (A)	Ampere I _{max} (A)
TPMK5T7-7(S)	3	50	200-230/342-380	1.5	6.3-6.1/3.6-3.5	6.8-6.5/3.9-3.7
TPMK5T9-9(S)	3	50	200-230/342-380	2.2	9.5-10.5/5.5-5.6	10.2-10.9/5.9-5.9
TPMK5T11-11(S)	3	50	200-230/342-380	3	12.2-13.1/7.1-7.7	13.4-14.0/7.9-7.8
TPMK5T13-13(S)	3	50	200-230/342-380	3	12.2-13.1/7.1-7.7	13.4-14.0/7.9-7.8

Electrical data 50Hz/60Hz, 2900/3500rpm

Model	PH (Ø)	Cycle (Hz)	Volts (V)	P2 (kW)	Ampere I _{1/1} (A)	Ampere I _{max} (A)
TPMK5T8-8(S)	3	50	200-230/342-380	3	12.2-13.1/7.1-7.7	13.4-14.0/7.9-7.8
		60	220-240/380-440		11.2-10.7/6.4-6.3	14.5-13.3/8.3-7.6
TPMK5T9-9(S)	3	50	200-230/342-380	3.4	13.4-13.0/7.8-7.4	14.6-13.9/8.5-8.0
		60	220-240/380-440	3.7	13.4-12.6/7.7-7.0	16.4-15.1/9.4-8.4

