

TPM Series

Multi-stage Centrifugal Pump

IE3 High Efficiency
Motor



WALRUS
WALRUS PUMP CO., LTD.

TPM Series Multistage Centrifugal Pump



50Hz

Power: 2.2 - 7.5 kW

Head: Up to 70 M

Flow: Up to 1200 L/min

60Hz

Power: 1.5 - 7.5 kW

Head: Up to 77 M

Flow: Up to 1500 L/min

Applications

Suitable for clean water/liquid without abrasive matters. The applications are versatile, such as pressure boosting, transfer, circulation, and machinery.

- Industrial circulation system
- Washing/cleaning system
- Pressure booster system
- Water/liquid transfer
- Agricultural irrigation

Pump Construction

The TPM Series is horizontal multistage centrifugal pump, non self-priming, co-axial pump/motor design, impellers mounted on extended motor shaft. Main working parts made by stainless steel.

Standard Mode

	TPM	18T	2K
Model type			
Nominal flow rate(m ³ /h)			
Nominal head (kg/cm ²)			

Code	TPM	18T	2K	S	F	A	H
Standard mode							
N: SUS 316 (25T/50T)							
S: SUS 304 (18T)							
Flange type (25T/50T)							
Air conditioning (IP 44)							
Insulation class: H.							

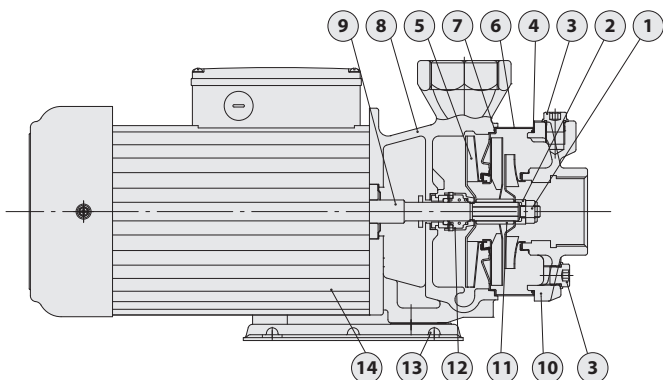
Operating Conditions

1. Ambient temperature :Max. +40°C
2. Liquid temperature range:+0°C ~ +90°C
3. Operating pressure:Max. 10 kg/cm²
4. Inlet pressure:Max. 6 kg/cm²

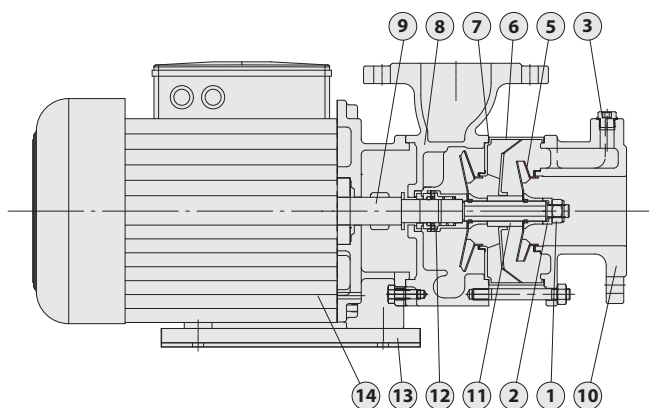
Sectional drawing

Materials

(TPM 18T)



(TPM 25/50T)



No.	Part name	Material		
		Standard	S series	N series
1	Lock Nut	SUS 316	SUS 316	SUS 316
2	Sleeve(Shaft End)	SUS 316	SUS 316	SUS 316
3	Water Plug	FC 20	SUS 304	SUS 316
4	O Ring	HNBR	HNBR	-
5	Impeller	SUS 304	SUS 304	SUS 316
6	Intermediate Chamber	SUS 304	SUS 304	SUS 316
7	Gasket	Teflon		
8	Pump Casing	FC 20	SUS 304	SUS 316
9	Shaft	SUS 304	SUS 304	SUS 316
10	Suction Chamber	FC 20	SUS 304	SUS 316
11	Sleeve	SUS 304	SUS 304	SUS 316
12	Mechanical seal	HGSH		
13	Mounted Base	Coating Steel		
14	Motor Shell	Aluminum alloy		

SUS 304 may be replaced by SUS316 depended on stock availability.

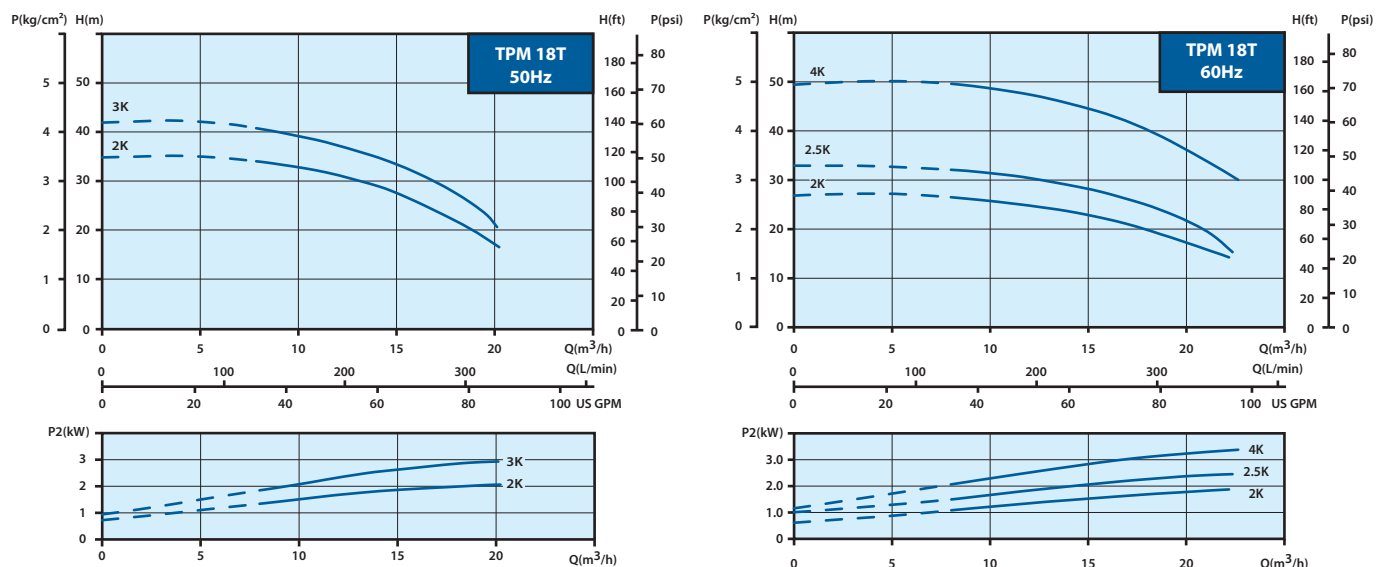
Options on request

- Special mechanical seal

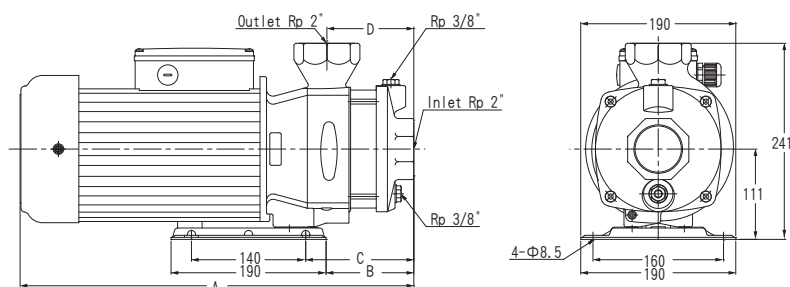
Mechanical seal type	Material	
	Stationary Face / Rotary Face	Cup Gasket / O Ring
HGSH HGSV HGSE	(G)Carbon (S)Silicium Carbide	(H) HNBR (V) Viton
HSSH HSSV HSSE	(S)Silicium Carbide (S)Silicium Carbide	(E) EPDM

TPM 18T

Performance curve



Electrical data



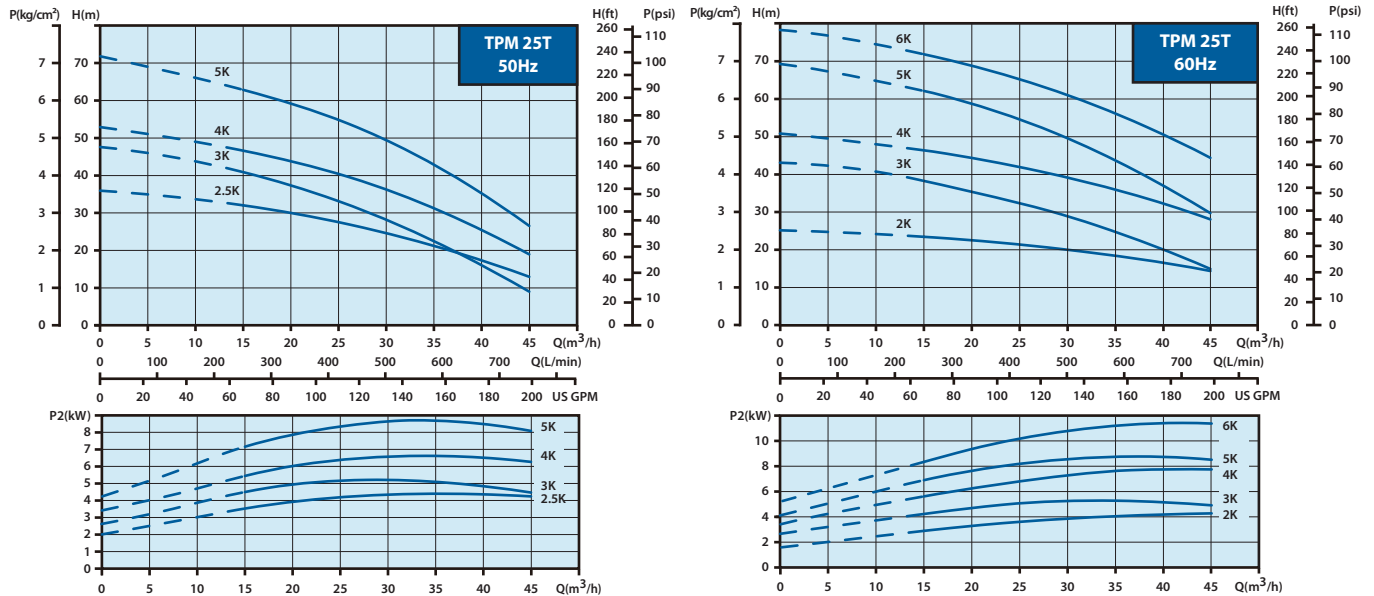
50Hz, 2900rpm, Motor Efficiency IE3

Model	PH (Ø)	Voltage code	Volts (V)	Output Power(kW)	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)	Dimensions				N.W. (kg)
								A(mm)	B(mm)	C(mm)	D(mm)	
TPM18T2K(S)	3	59V	200-230/342-380	2.2	9.5-10.5/5.5-5.6	1.1	10.2-10.9/5.9-5.9	458	108	133	107	31
TPM18T3K(S)	3	59V	200-230/342-380	3.0	12.2-13.1/7.1-7.1	1.1	13.4-14.0/7.9-7.8	483	108	133	107	34

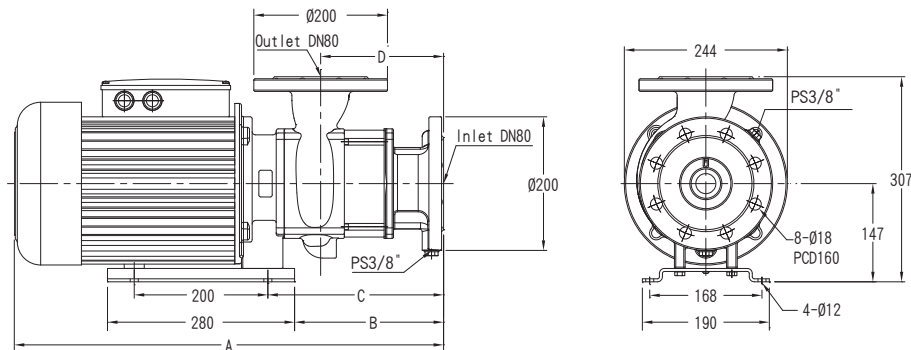
60Hz, 3500rpm, Motor Efficiency IE3

Model	PH (Ø)	Voltage code	Volts (V)	Output Power(kW)	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)	Dimensions				N.W. (kg)
								A(mm)	B(mm)	C(mm)	D(mm)	
TPM18T2K(S)	3	69V	220-240/380-440	1.5	5.8-5.5/3.4-3.1	1.5	8.3-7.6/4.8-4.2	404	76	101	75	27
TPM18T2.5K(S)	3	69V	220-240/380-440	2.2	8.6-8.4/4.9-5.0	1.5	12.1-11.2/6.9-6.4	426	76	101	75	31
TPM18T4K(S)	3	69V	220-240/380-440	3.0	11.2-10.7/6.4-6.3	1.3	14.5-13.3/8.3-7.6	483	108	133	107	34

Performance curve



Electrical data



50Hz, 2900rpm, Motor Efficiency IE3

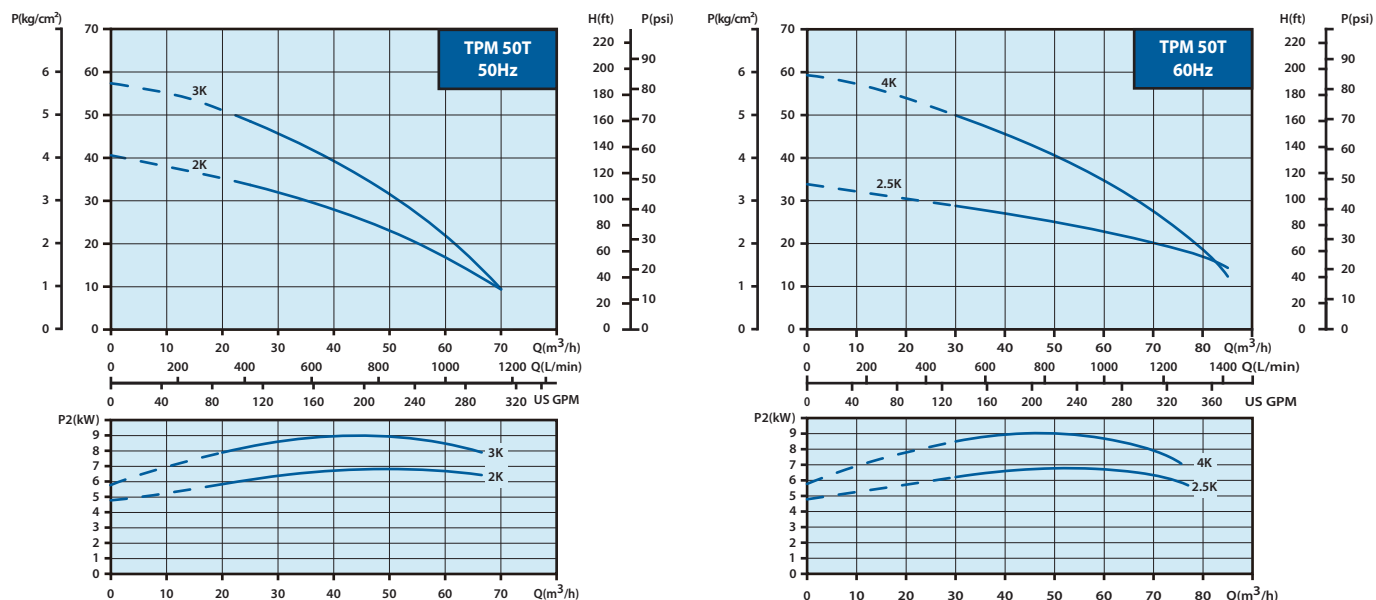
Model	PH (Ø)	Voltage code	Volts (V)	Output Power(kW)	Ampere I _{1/2} (A)	Service Factor	Ampere I _{max} (A)	Dimensions				N.W. (kg)
								A(mm)	B(mm)	C(mm)	D(mm)	
TPM25T2.5K(N)F	3	59U	220-240/380-415	4	16.0-16.6/9.0-9.5	1.1	17.4-17.5/9.7-10.1	643	223	263	185	64.5
TPM25T3K(N)F	3	59U	220-240/380-415	5.5	19.6-19.9/11.3-11.4	1.1	21.3-21.2/12.3-12.2	703	283	323	245	71
TPM25T4K(N)F	3	59U	220-240/380-415	5.5	19.6-19.9/11.3-11.4	1.1	21.3-21.2/12.3-12.2	703	283	323	245	71
TPM25T5K(N)F	3	59U	220-240/380-415	7.5	25.0-24.8/14.6-14.5	1.1	27.3-26.8/15.9-15.7	803	343	383	305	82.5

60Hz, 3500rpm, Motor Efficiency IE3

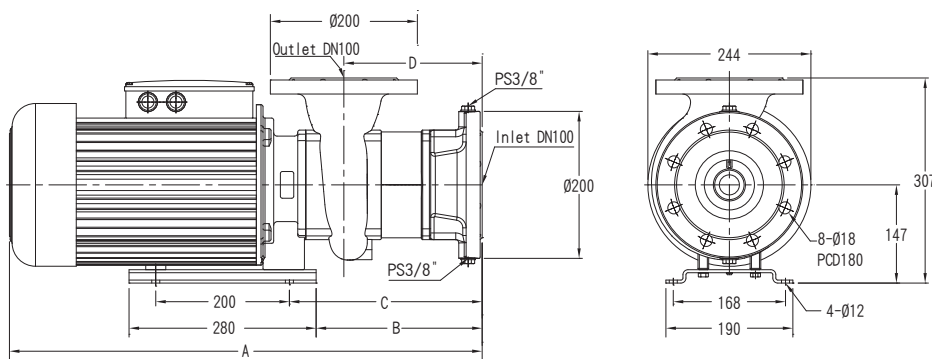
Model	PH (Ø)	Voltage code	Volts (V)	Output Power(kW)	Ampere I _{1/2} (A)	Service Factor	Ampere I _{max} (A)	Dimensions				N.W. (kg)
								A(mm)	B(mm)	C(mm)	D(mm)	
TPM25T2K(N)F	3	69U	220-255/380-440	4	14.6-14.7/8.5-8.5	1.15	16.5-16.0/9.6-9.3	583	163	203	125	61.5
TPM25T3K(N)F	3	69U	220-255/380-440	4	14.6-14.7/8.5-8.5	1.15	16.5-16.0/9.6-9.3	643	223	263	185	64
TPM25T4K(N)F	3	69U	220-255/380-440	5.5	19.1-17.9/10.9-10.3	1.15	21.7-19.9/12.4-11.5	643	223	263	185	69
TPM25T5K(N)F	3	69U	220-255/380-440	7.5	25.4-24.4/14.7-14.1	1.15	28.9-27.1/16.7-15.8	743	283	323	245	80
TPM25T6K(N)F	3	69U	220-255/380-440	7.5	25.4-24.4/14.7-14.1	1.15	28.9-27.1/16.7-15.8	743	283	323	245	80

TPM 50T

Performance curve



Electrical data



50Hz, 2900rpm, Motor Efficiency IE3

Model	PH (Ø)	Voltage code	Volts (V)	Output Power(kW)	Ampere I _v (A)	Service Factor	Ampere I _{max} (A)	Dimensions				N.W. (kg)
								A(mm)	B(mm)	C(mm)	D(mm)	
TPM50T2K(N)F	3	59U	220-240/380-415	5.5	19.6-19.9/11.3-11.4	1.1	21.3-21.2/12.3-12.2	667	248	288	207	73
TPM50T3K(N)F	3	59U	220-240/380-415	7.5	25.0-24.8/14.6-14.5	1.1	27.3-26.8/15.9-15.7	767	308	348	267	84.5

60Hz, 3500rpm, Motor Efficiency IE3

Model	PH (Ø)	Voltage code	Volts (V)	Output Power(kW)	Ampere I _v (A)	Service Factor	Ampere I _{max} (A)	Dimensions				N.W. (kg)
								A(mm)	B(mm)	C(mm)	D(mm)	
TPM50T2.5K(N)F	3	69U	220-255/380-440	5.5	19.1-17.9/10.9-10.3	1.15	21.7-19.9/12.4-11.5	607	188	228	147	71
TPM50T4K(N)F	3	69U	220-255/380-440	7.5	25.4-24.4/14.7-14.1	1.15	28.9-27.1/16.7-15.8	707	248	288	207	82



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