



WALRUS
PUMP

TPM Series

Multistage Centrifugal Pump

IE3 
Motor



**Better Life
Through Innovation**

Content

General Data	03
Performance Range	04
Performance Curves/Technical Data	
TPM 18T	05
TPM 25T	07
TPM 25T (Threaded)	09
TPM 50T	11

TPM Series Multistage Centrifugal Pump

50 Hz

Power: 2.2 - 7.5 kW

Head: Up to 70 M

Flow: Up to 1200 L/min

Outlet: 2" - 4"

Inlet: 2" - 4"

60 Hz

Power: 1.5 - 7.5 kW

Head: Up to 77 M

Flow: Up to 1500 L/min

Outlet: 2" - 4"

Inlet: 2" - 4"



Construction Industry



Agriculture & Fishing Industry



Manufacturing Industry



Electricity & New Energy Industry



Entertainment & Leisure Industry



Accommodation & Food Service Industry



Wholesale & Retail Industry



Water Supply & Pollution Control



Service Industry



Product Features

- 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.

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

Model Code

	TPM	18T	2K	S	F	A	H
Model type							
Nominal flow rate (m ³ /hr)							
Nominal head (kg/cm ²)							
N: SUS 316 (25T/50T)							
S: SUS 304 (18T)							
Flange type (25T/50T)							
Air conditioning (IP 44)							
Insulation class: H.							

Operating Conditions

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

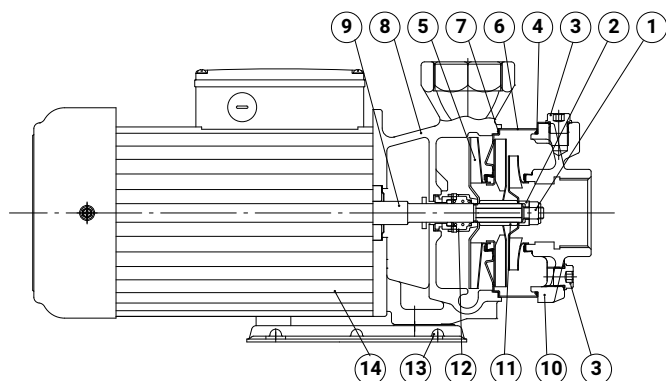
Motor

- Enclosure protection class: IP54
- Insulation class: F.
- Frequency range: 50/60 Hz
- Nominal speed: 2900/3500 rpm
- Voltages code:

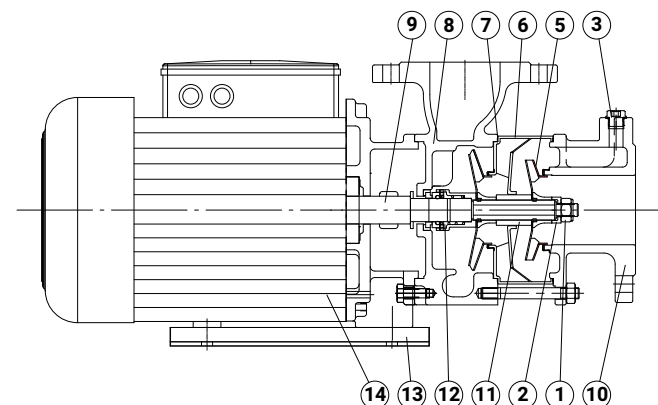
Code	PH	50Hz	60Hz
59U	3	220-240/380-415V	-
59V	3	200-230/342-380V	-
69U	3	-	220-255/380-440V
69V	3	-	220-240/380-440V

Sectional Drawing

TPM 18T



TPM 25/50T



Materials

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	SUS 304	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		

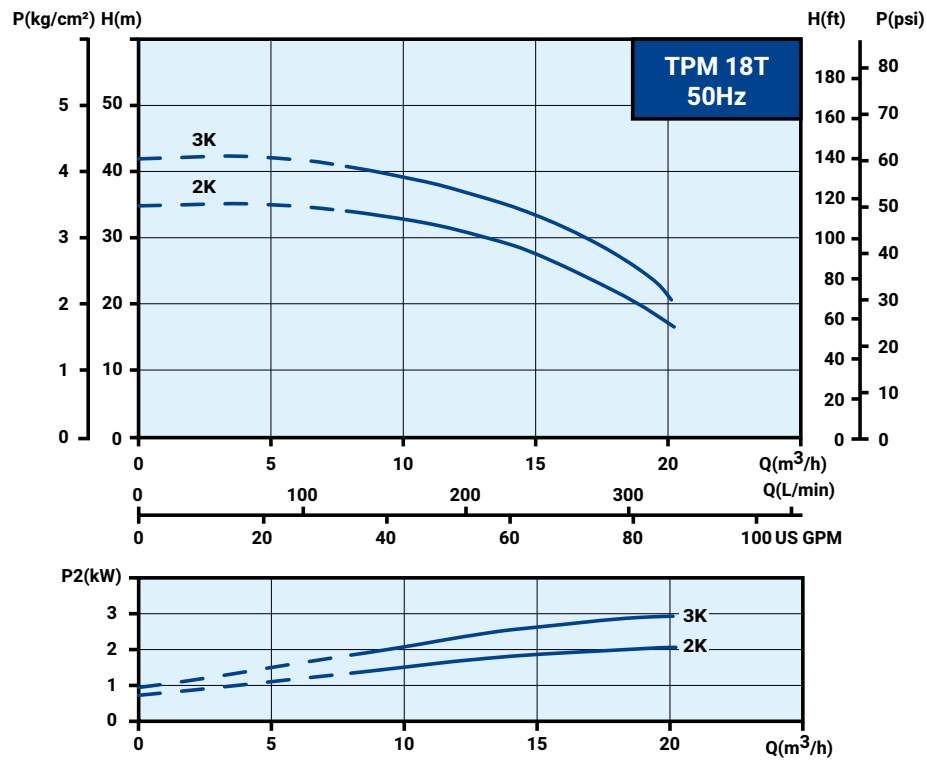
SUS 304 may be replaced by SUS 316, depending on stock availability.

Options on Request

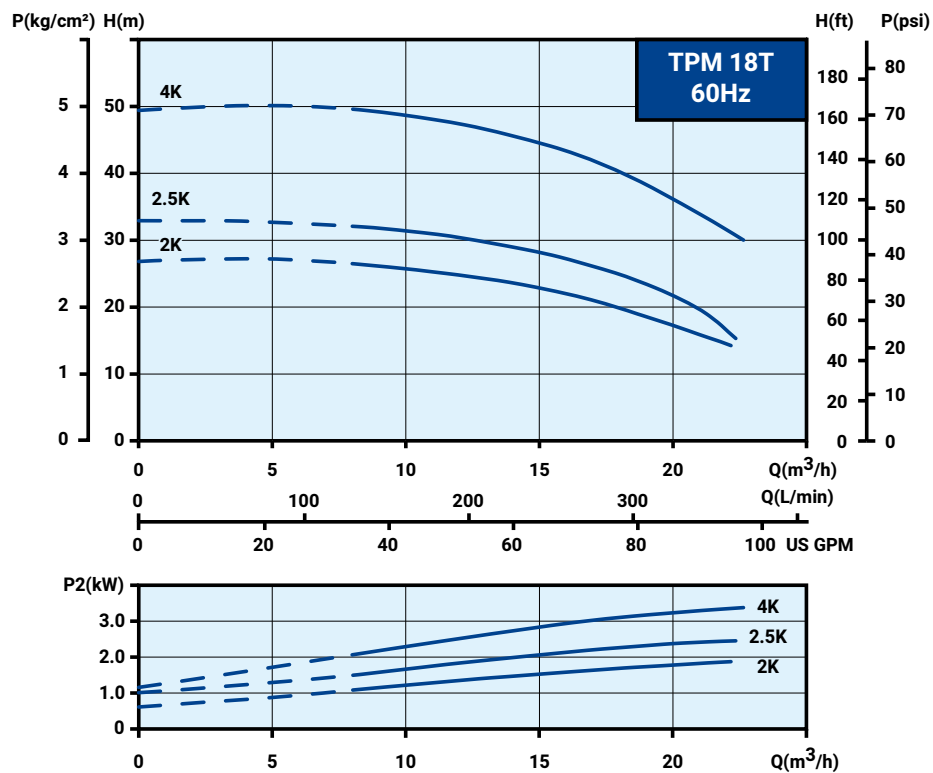
■ Special mechanical seal

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

Performance Curve, 50Hz



Performance Curve, 60Hz

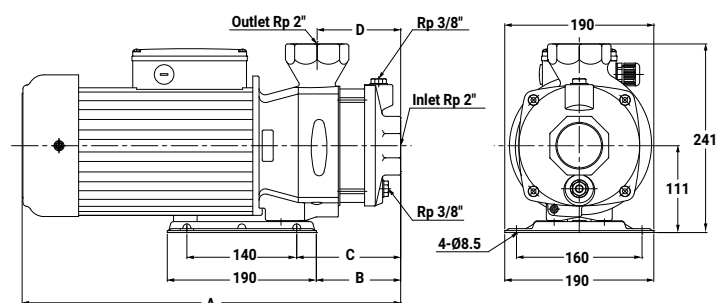


Electrical Data, 50/60Hz

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPM 18T2K(S)	3	59V	50	200-230/342-380	2.2	9.5-10.5/5.5-5.6	1.1	10.2-10.9/5.9-5.9
TPM 18T3K(S)	3	59V	50	200-230/342-380	3.0	12.2-13.1/7.1-7.1	1.1	13.4-14.0/7.9-7.8

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPM 18T2K(S)	3	69V	60	220-240/380-440	1.5	5.8-5.5/3.4-3.1	1.5	8.3-7.6/4.8-4.2
TPM 18T2.5K(S)	3	69V	60	220-240/380-440	2.2	8.6-8.4/4.9-5.0	1.5	12.1-11.2/6.9-6.4
TPM 18T4K(S)	3	69V	60	220-240/380-440	3.0	11.2-10.7/6.4-6.3	1.3	14.5-13.3/8.3-7.6

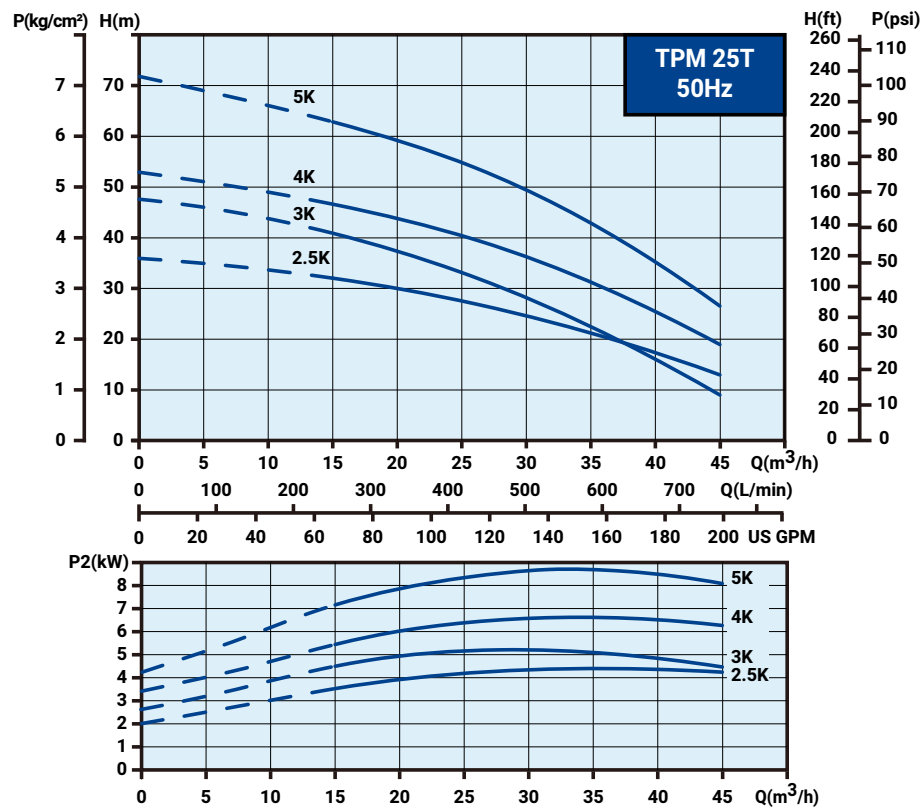
Dimensions



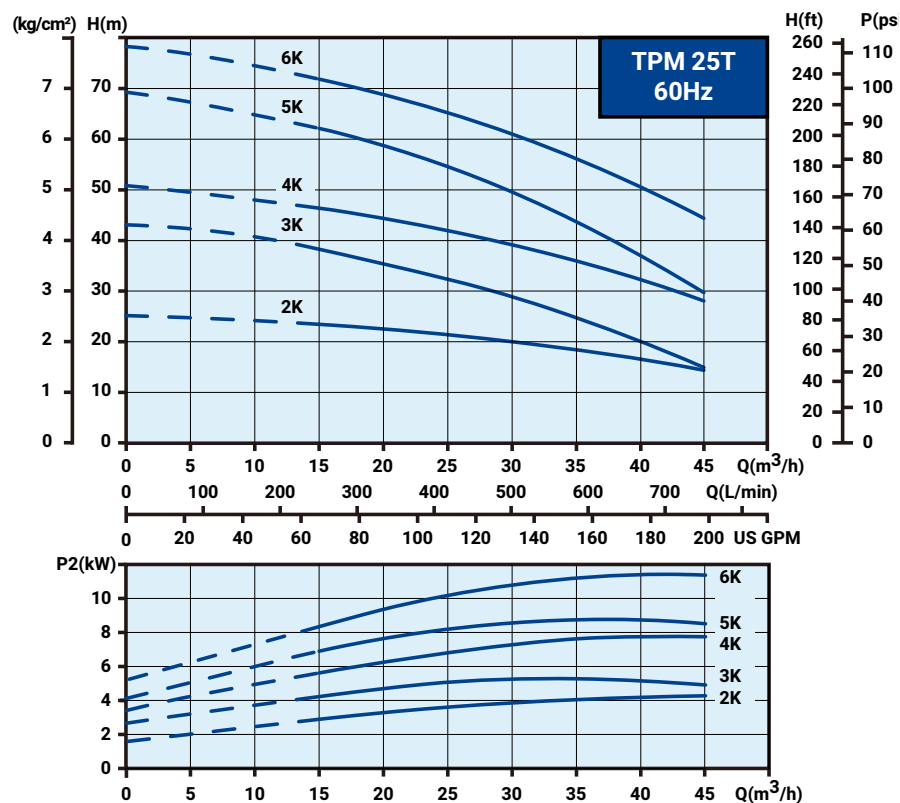
Model	Cycle Hz	A mm	B mm	C mm	D mm	N.W. kg
TPM 18T2K(S)	50	458	108	133	107	31
TPM 18T3K(S)	50	483	108	133	107	34

Model	Cycle Hz	A mm	B mm	C mm	D mm	N.W. kg
TPM 18T2K(S)	60	404	76	101	75	27
TPM 18T2.5K(S)	60	426	76	101	75	31
TPM 18T4K(S)	60	483	108	133	107	34

Performance Curve, 50Hz



Performance Curve, 60Hz

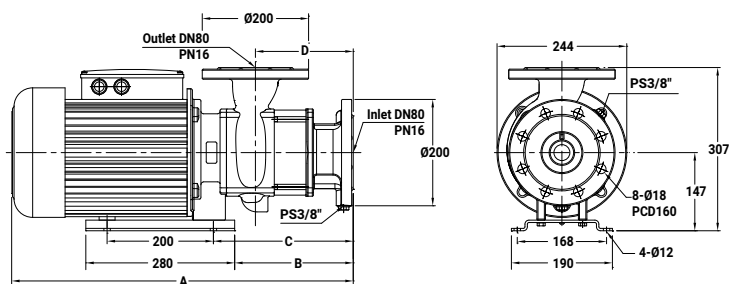


Electrical Data, 50/60Hz

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPM 25T2.5K(N)F	3	59U	50	220-240/380-415	4.0	16.0-16.6/9.0-9.5	1.1	17.4-17.5/9.7-10.1
TPM 25T3K(N)F	3	59U	50	220-240/380-415	5.5	19.6-19.9/11.3-11.4	1.1	21.3-21.2/12.3-12.2
TPM 25T4K(N)F	3	59U	50	220-240/380-415	5.5	19.6-19.9/11.3-11.4	1.1	21.3-21.2/12.3-12.2
TPM 25T5K(N)F	3	59U	50	220-240/380-415	7.5	25.0-24.8/14.6-14.5	1.1	27.3-26.8/15.9-15.7

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPM 25T2K(N)F	3	69U	60	220-255/380-440	4.0	14.6-14.7/8.5-8.5	1.15	16.5-16.0/9.6-9.3
TPM 25T3K(N)F	3	69U	60	220-255/380-440	4.0	14.6-14.7/8.5-8.5	1.15	16.5-16.0/9.6-9.3
TPM 25T4K(N)F	3	69U	60	220-255/380-440	5.5	19.1-17.9/10.9-10.3	1.15	21.7-19.9/12.4-11.5
TPM 25T5K(N)F	3	69U	60	220-255/380-440	7.5	25.4-24.4/14.7-14.1	1.15	28.9-27.1/16.7-15.8
TPM 25T6K(N)F	3	69U	60	220-255/380-440	7.5	25.4-24.4/14.7-14.1	1.15	28.9-27.1/16.7-15.8

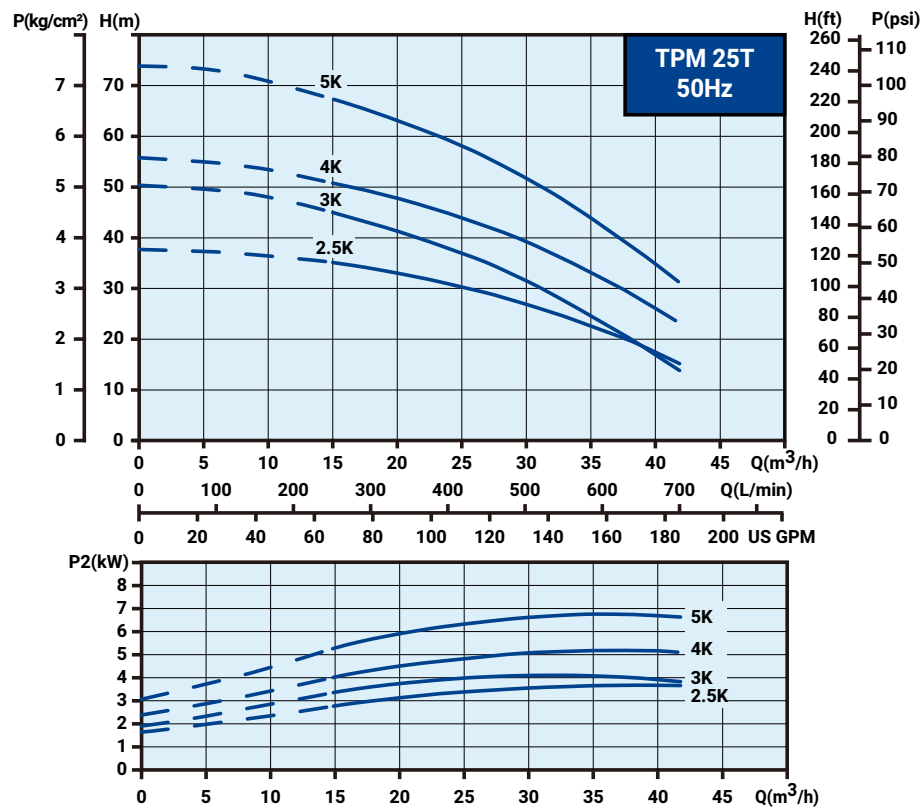
Dimensions



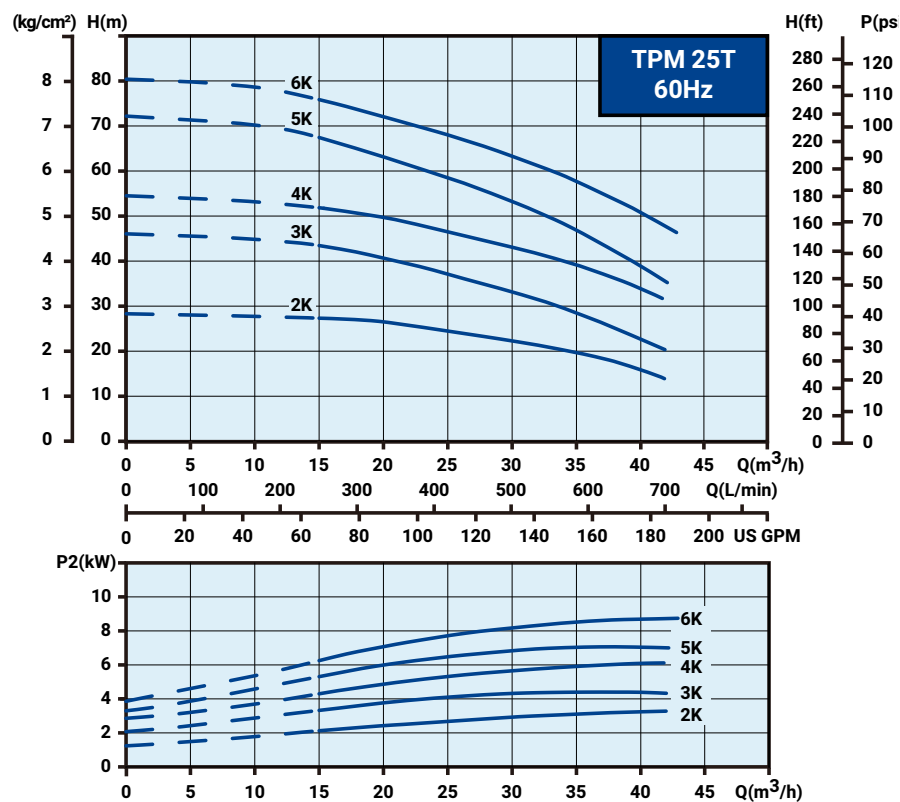
Model	Cycle Hz	A mm	B mm	C mm	D mm	N.W. kg
TPM 25T2.5K(N)F	50	643	223	263	185	64.5
TPM 25T3K(N)F	50	703	283	323	245	71.0
TPM 25T4K(N)F	50	703	283	323	245	71.0
TPM 25T5K(N)F	50	803	343	383	305	82.5

Model	Cycle Hz	A mm	B mm	C mm	D mm	N.W. kg
TPM 25T2K(N)F	60	583	163	203	125	61.5
TPM 25T3K(N)F	60	643	223	263	185	64.0
TPM 25T4K(N)F	60	643	223	263	185	69.0
TPM 25T5K(N)F	60	743	283	323	245	80.0
TPM 25T6K(N)F	60	743	283	323	245	80.0

Performance Curve, Threaded, 50Hz



Performance Curve, Threaded, 60Hz

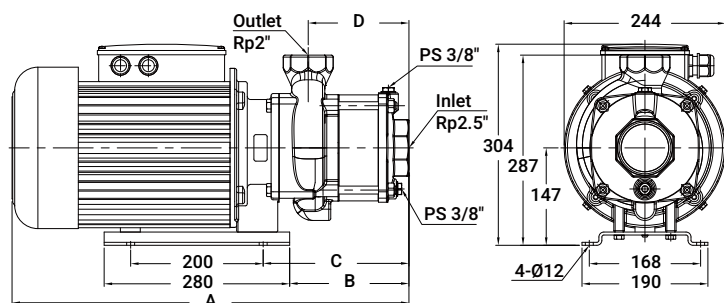


Electrical Data, Threaded, 50/60Hz

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPM 25T2.5K(N)	3	59U	50	220-240/380-415	4.0	16.0-16.6/9.0-9.5	1.1	17.4-17.5/9.7-10.1
TPM 25T3K(N)	3	59U	50	220-240/380-415	5.5	19.6-19.9/11.3-11.4	1.1	21.3-21.2/12.3-12.2
TPM 25T4K(N)	3	59U	50	220-240/380-415	5.5	19.6-19.9/11.3-11.4	1.1	21.3-21.2/12.3-12.2
TPM 25T5K(N)	3	59U	50	220-240/380-415	7.5	25.0-24.8/14.6-14.5	1.1	27.3-26.8/15.9-15.7

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPM 25T2K(N)	3	69U	60	220-255/380-440	4.0	14.6-14.7/8.5-8.5	1.15	16.5-16 .0/9.6-9.3
TPM 25T3K(N)	3	69U	60	220-255/380-440	4.0	14.6-14.7/8.5-8.5	1.15	16.5-16.0/9.6-9.3
TPM 25T4K(N)	3	69U	60	220-255/380-440	5.5	19.1-17.9/10.9-10.3	1.15	21.7-19.9/12.4-11.5
TPM 25T5K(N)	3	69U	60	220-255/380-440	7.5	25.4-24.4/14.7-14.1	1.15	28.9-27.1/16.7-15.8
TPM 25T6K(N)	3	69U	60	220-255/380-440	7.5	25.4-24.4/14.7-14.1	1.15	28.9-27.1/16.7-15.8

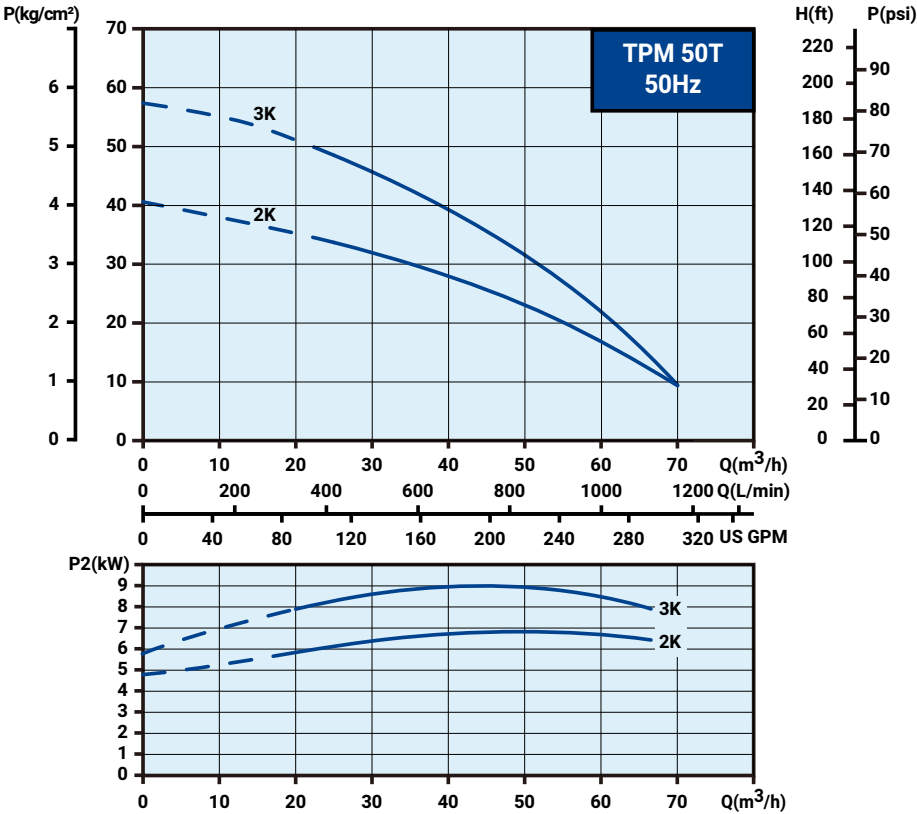
Dimensions, Threaded



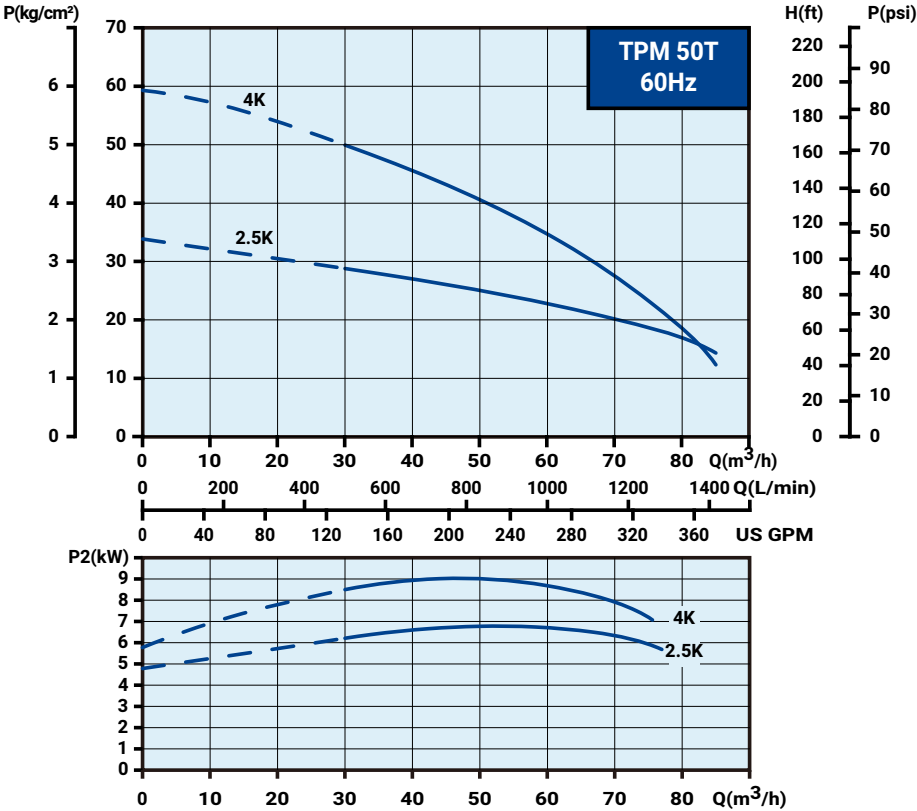
Model	Cycle Hz	A mm	B mm	C mm	D mm	N.W. kg
TPM 25T2.5K(N)	50	559	180	220	152	59.0
TPM 25T3K(N)	50	659	240	280	212	65.5
TPM 25T4K(N)	50	659	240	280	212	65.5
TPM 25T5K(N)	50	759	300	340	272	77.0

Model	Cycle Hz	A mm	B mm	C mm	D mm	N.W. kg
TPM 25T2K(N)	60	539	120	160	92	56.0
TPM 25T3K(N)	60	599	180	220	152	58.5
TPM 25T4K(N)	60	599	180	220	152	63.5
TPM 25T5K(N)	60	699	240	280	212	74.5
TPM 25T6K(N)	60	699	240	280	212	74.5

Performance Curve, 50Hz



Performance Curve, 60Hz

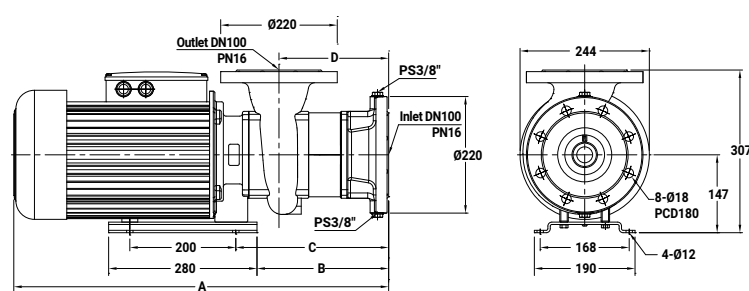


Electrical Data, 50/60Hz

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPM 50T2K(N)F	3	59U	50	220-240/380-415	5.5	19.6-19.9/11.3-11.4	1.1	21.3-21.2/12.3-12.2
TPM 50T3K(N)F	3	59U	50	220-240/380-415	7.5	25.0-24.8/14.6-14.5	1.1	27.3-26.8/15.9-15.7

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPM 50T2.5K(N)F	3	69U	60	220-255/380-440V	5.5	19.1-17.9/10.9-10.3	1.15	21.7-19.9/12.4-11.5
TPM 50T4K(N)F	3	69U	60	220-255/380-440V	7.5	25.4-24.4/14.7-14.1	1.15	28.9-27.1/16.7-15.8

Dimensions



Model	Cycle Hz	A mm	B mm	C mm	D mm	N.W. kg
TPM 50T2K(N)F	50	667	248	288	207	73.0
TPM 50T3K(N)F	50	767	308	348	267	84.5

Model	Cycle Hz	A mm	B mm	C mm	D mm	N.W. kg
TPM 50T2.5K(N)F	60	607	188	228	147	71.0
TPM 50T4K(N)F	60	707	248	288	207	82.0

Memo



Memo

Memo





WALRUS
PUMP

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All specifications are subject to change without notice. TPM-IE3-EN003-202405

