WALRUS PUMP

TPHK_L Series

Immersible Pump

IE3 Motor



Better Life
Through Innovation

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TPHK_L Series Immersible Pump

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

50 Hz

Power: 0.37 - 3.4 kW
Head: Up to 70 M
Flow: Up to 165 L/min
Outlet: ¾" - 1"
Inlet: 1¼"

60 Hz

Power: 0.37 - 3.7 kW
Head: Up to 90 M
Flow: Up to 230 L/min
Outlet: ¾" - 1"
Inlet: 1¼"



Product Features

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

Applications

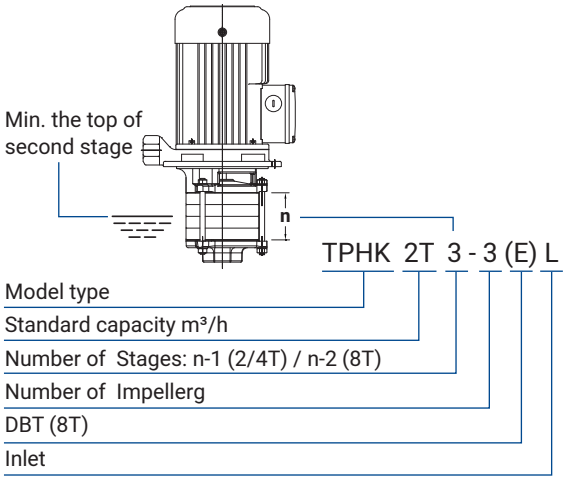
The TPHK_L Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools. It is suitable to carry fluids such as water, coolant, light oil and other clean, non aggressive matters:

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

Operating Conditions

- Liquid temperature range: +0°C ~ +90°C
- Ambient temperature: Max. +40°C
- Operating pressure: Max. 15 kg/cm²
- Submerged depth: Min. Top of second stage

Model Code

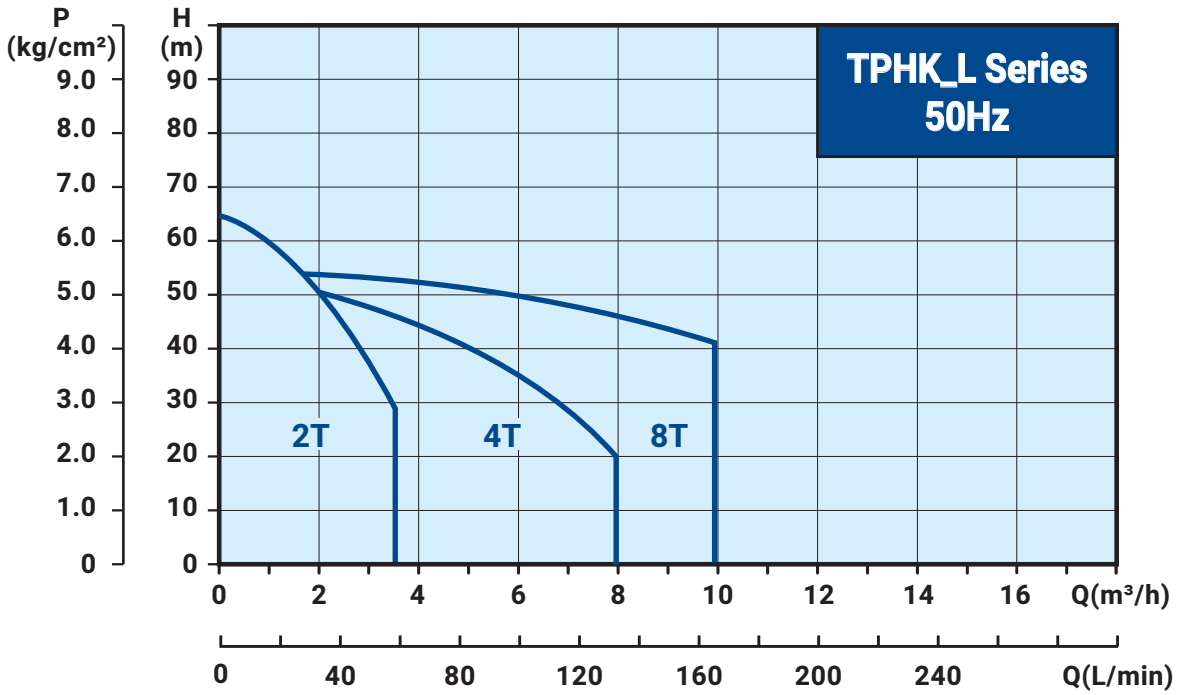


Motor

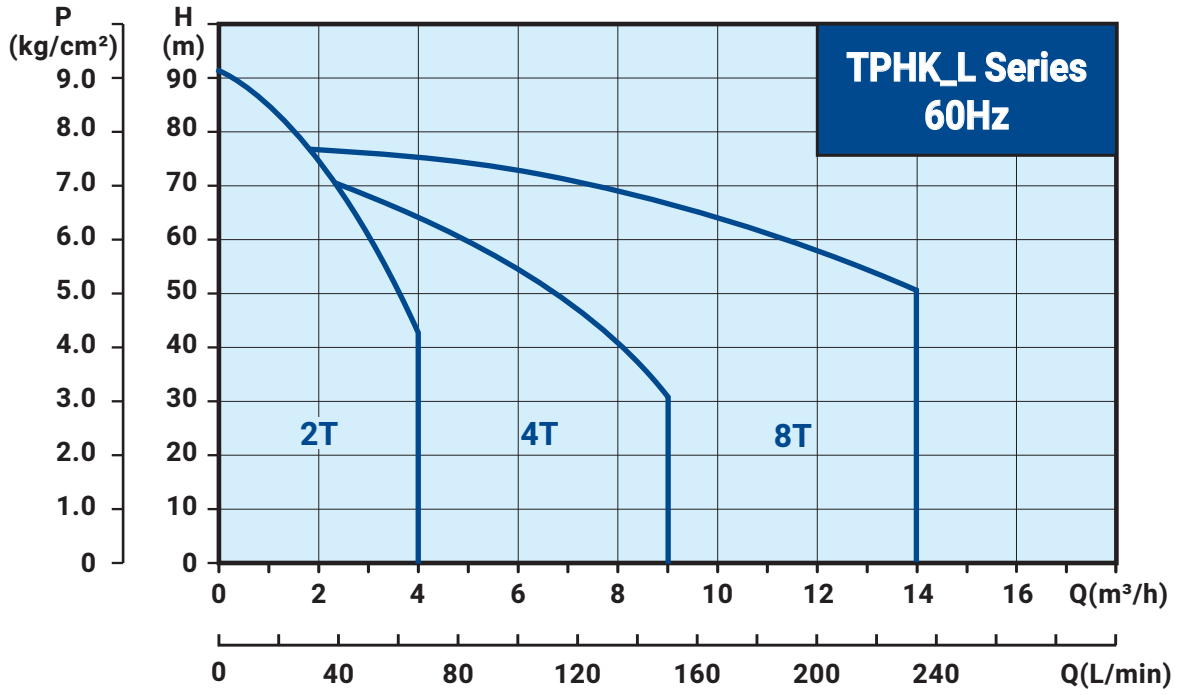
- Enclosure protection class: IP54
- Insulation class: F.
- Frequency range: 50/60 Hz
- Nominal speed: 2900/3500 rpm
- Voltages code:

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

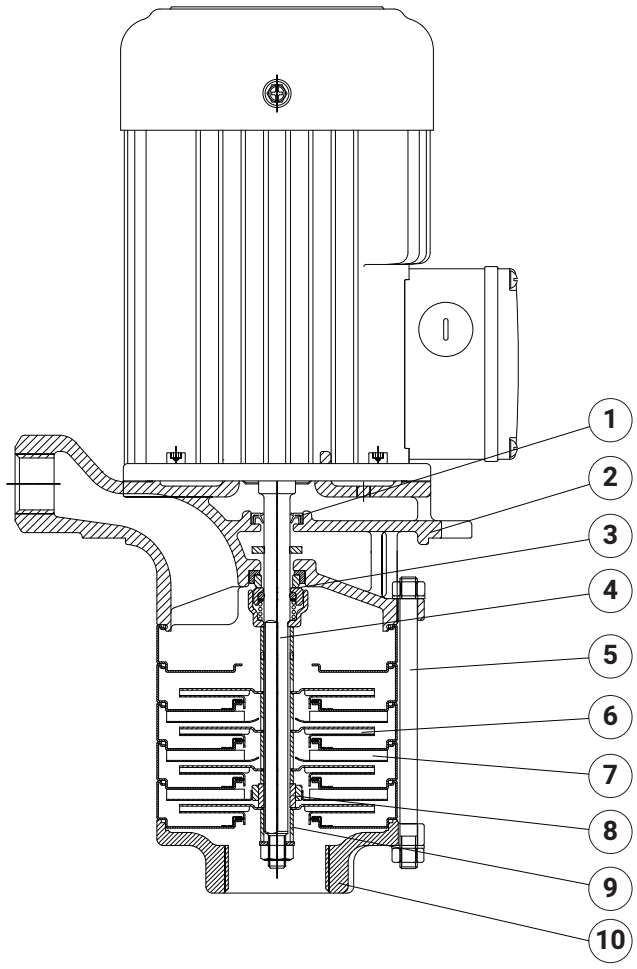
Performance Curve, 50Hz



Performance Curve, 60Hz



Sectional Drawing



Materials

NO.	Part Name	Material
1	Oil Seal	NBR
2	Pump Casing	FC 25
3	Mechanical Seal	MSSH
4	Shaft	SUS 304
5	Strap	SUS 304
6	Impeller	SUS 304
7	Intermediate chamber	SUS 304
8	Bearing	SiC
9	Sleeve	SUS 304
10	Base	FC 20

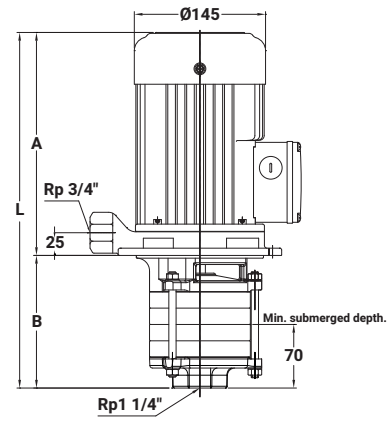
Options on Request

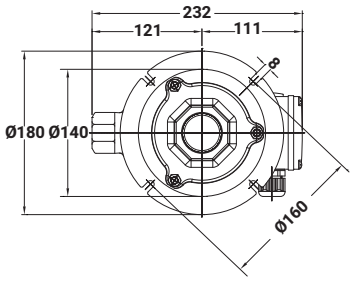
Mechanical seal type	Material	
	Stationary Face/ Rotary Face	Cup Gasket & O Ring
MGSH MGSV MGSE	(G)Carbon/ (S)Silicium carbide	(H) HNBR (V) Viton (E) EPDM
MSSH MSSV MSSE	(S)Silicium carbide/ (S)Silicium carbide	

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)
TPHK 2T3-1L	3	A3V	50 60	200-240/342-415 200-255/342-480	0.37	1.8-2.0/1.1-1.2 1.8-1.7/1.0-1.0	1.1 1.5	2.0-2.1/1.1-1.2 2.3-2.1/1.3-1.2
TPHK 2T3-2L	3	A3V	50 60	200-240/342-415 200-255/342-480	0.37	1.8-2.0/1.1-1.2 1.8-1.7/1.0-1.0	1.1 1.5	2.0-2.1/1.1-1.2 2.3-2.1/1.3-1.2
TPHK 2T3-3L	3	A3V	50 60	200-240/342-415 200-255/342-480	0.37	1.8-2.0/1.1-1.2 1.8-1.7/1.0-1.0	1.1 1.5	2.0-2.1/1.1-1.2 2.3-2.1/1.3-1.2
TPHK 2T4-4L	3	A6V	50 60	200-230/342-415 220-240/380-480	0.55	2.5-2.4/1.5-1.4 2.3-2.2/1.3-1.3	1.1 1.5	2.7-2.6/1.6-1.5 3.2-3.0/1.9-1.6
TPHK 2T5-5L	3	A6V	50 60	200-230/342-415 220-240/380-480	0.75	3.5-3.6/2.0-2.2 3.1-3.1/1.8-1.9	1.1 1.4	3.8-3.8/2.2-2.3 4.1-3.9/2.3-2.3
TPHK 2T6-6L	3	A6V	50 60	200-230/342-415 220-240/380-480	0.75	3.5-3.6/2.0-2.2 3.1-3.1/1.8-1.9	1.1 1.4	3.8-3.8/2.2-2.3 4.1-3.9/2.3-2.3
TPHK 2T7-7L	3	A6V	50 60	200-230/342-415 220-240/380-480	1.10	5.2-5.4/3.1-3.4 4.6-4.6/2.8-3.1	1.1 1.4	5.5-5.7/3.3-3.5 6.2-5.7/3.6-3.5

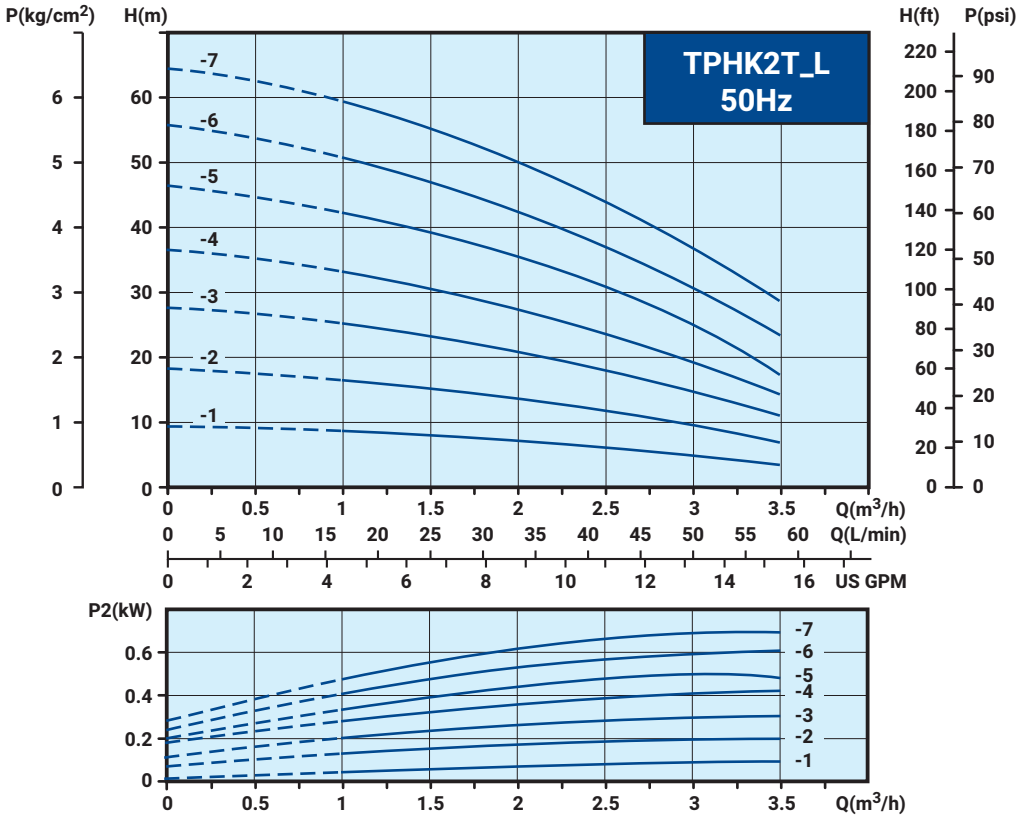
Dimensions



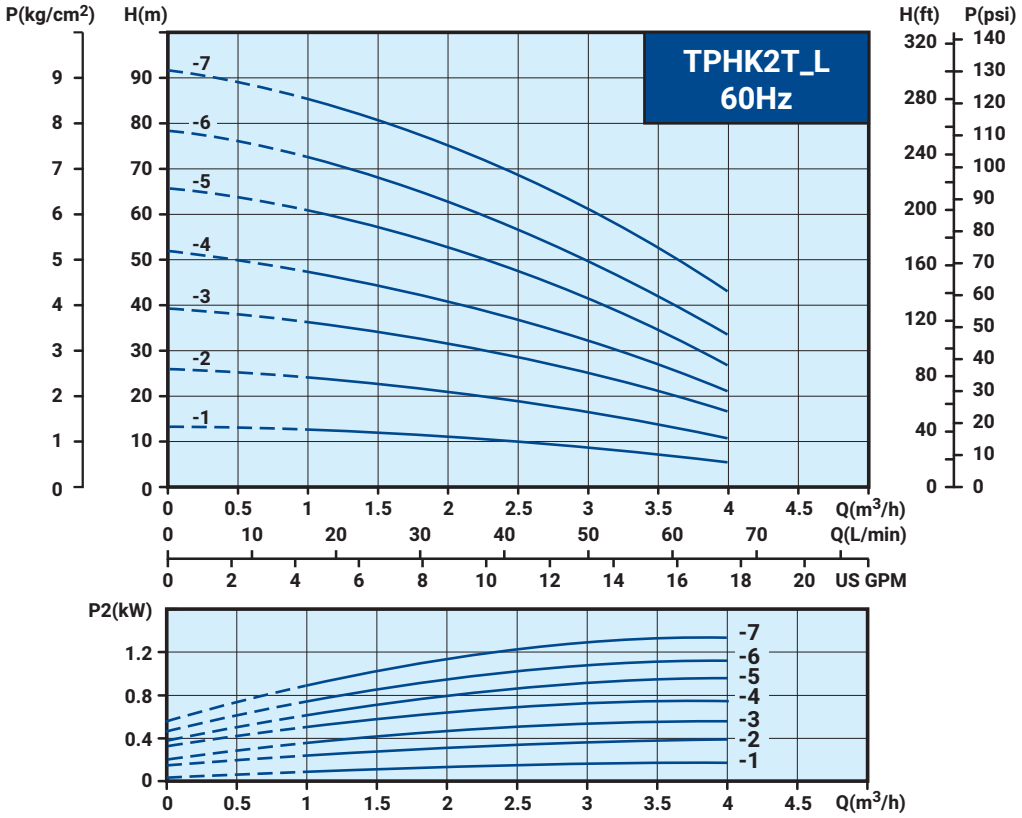


Model	A mm	B mm	L mm	N.W. kg	
TPHK 2T3-1L	185	146	331	10.3	36
TPHK 2T3-2L	185	146	331	10.5	36
TPHK 2T3-3L	185	146	331	10.6	36
TPHK 2T4-4L	245	164	409	11.9	30
TPHK 2T5-5L	253	182	435	13.1	30
TPHK 2T6-6L	253	200	453	13.9	24
TPHK 2T7-7L	284	218	502	15.5	24

Performance Curve, 50Hz



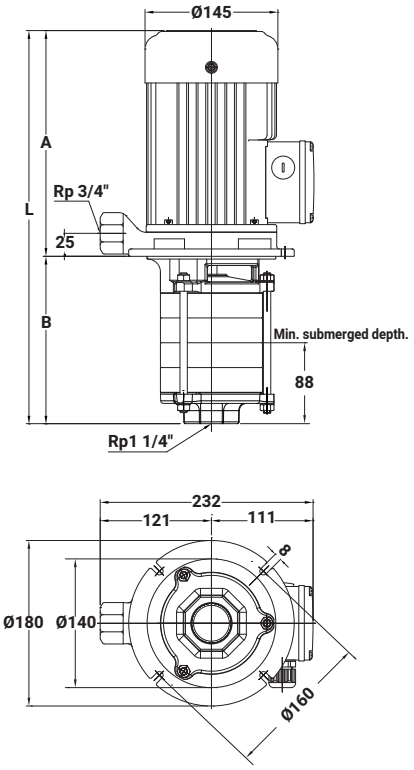
Performance Curve, 60Hz



Electrical Data, 50/60Hz

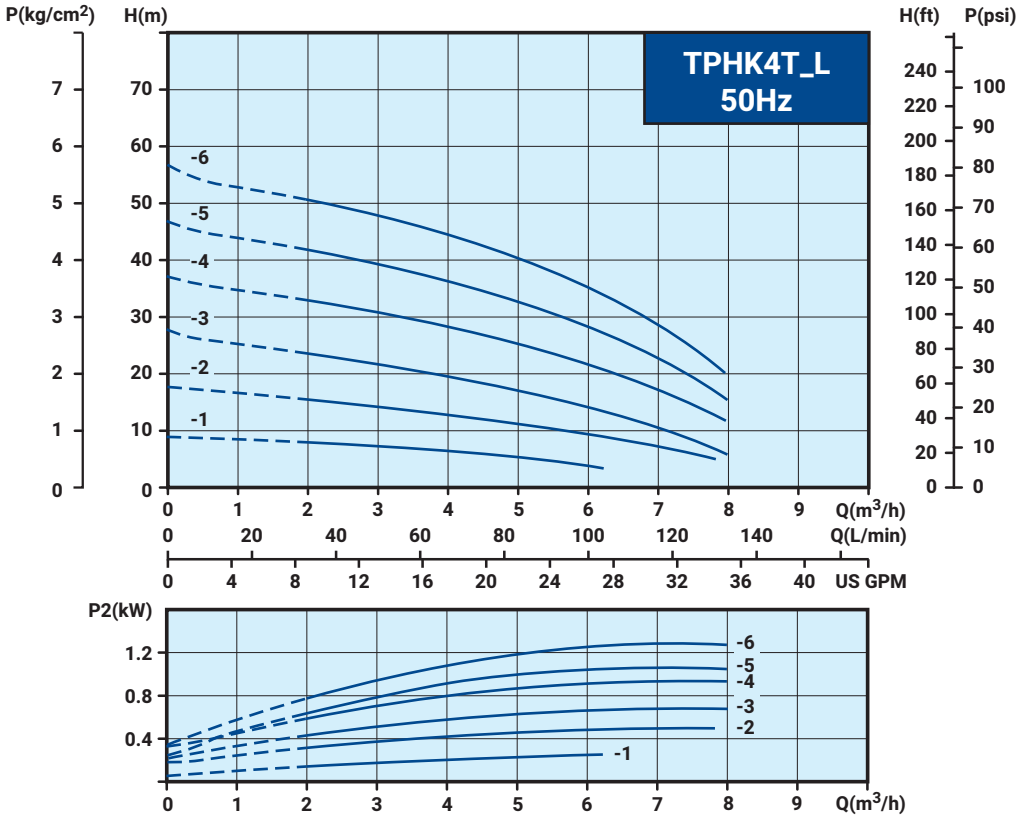
Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere $I_{1/1}$(A)	Service Factor	Ampere I_{max}(A)
TPHK 4T2-1L	3	A3V	50 60	200-240/342-415 200-255/342-480	0.37	1.8-2.0/1.1-1.2 1.8-1.7/1.0-1.0	1.1 1.5	2.0-2.1/1.1-1.2 2.3-2.1/1.3-1.2
TPHK 4T2-2L	3	A6V	50 60	200-230/342-415 220-240/380-480	0.55	2.5-2.4/1.5-1.4 2.3-2.2/1.3-1.3	1.1 1.5	2.7-2.6/1.6-1.5 3.2-3.0/1.9-1.6
TPHK 4T3-3L	3	A6V	50 60	200-230/342-415 220-240/380-480	0.75	3.5-3.6/2.0-2.2 3.1-3.1/1.8-1.9	1.1 1.4	3.8-3.8/2.2-2.3 4.1-3.9/2.3-2.3
TPHK 4T4-4L	3	A6V	50 60	200-230/342-415 220-240/380-480	1.1	5.2-5.4/3.1-3.4 4.6-4.6/2.8-3.1	1.1 1.4	5.5-5.7/3.3-3.5 6.2-5.7/3.6-3.5
TPHK 4T5-5L	3	A6V	50 60	200-230/342-415 220-240/380-480	1.5	6.7-6.7/3.8-4.0 6.0-5.9/3.5-3.6	1.1 1.4	7.3-7.1/4.1-4.2 8.1-7.6/4.7-4.2
TPHK 4T6-6L	3	A6V	50 60	200-230/342-415 220-240/380-480	1.5	6.7-6.7/3.8-4.0 6.0-5.9/3.5-3.6	1.1 1.4	7.3-7.1/4.1-4.2 8.1-7.6/4.7-4.2

Dimensions

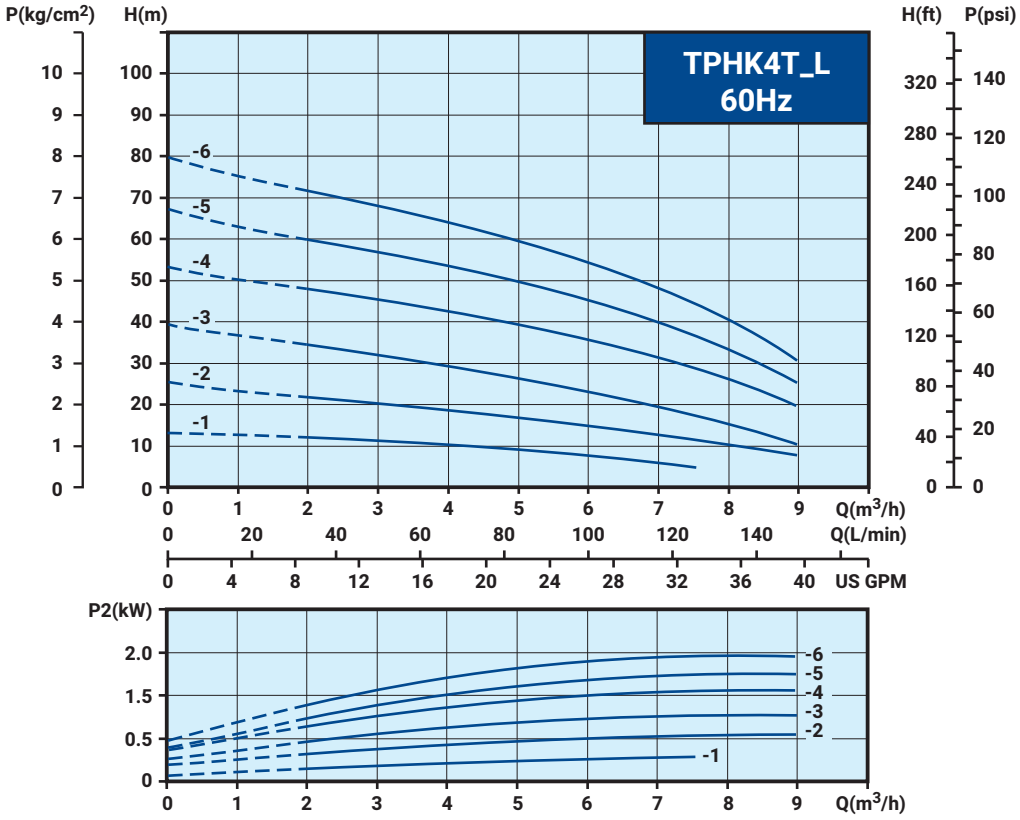


Model	A mm	B mm	L mm	N.W. kg	
TPHK 4T2-1L	185	155	340	10.2	36
TPHK 4T2-2L	245	155	400	11.4	30
TPHK 4T3-3L	245	182	427	12.1	30
TPHK 4T4-4L	284	209	493	13.7	24
TPHK 4T5-5L	309	236	545	14.3	24
TPHK 4T6-6L	309	263	572	15.0	24

Performance Curve, 50Hz



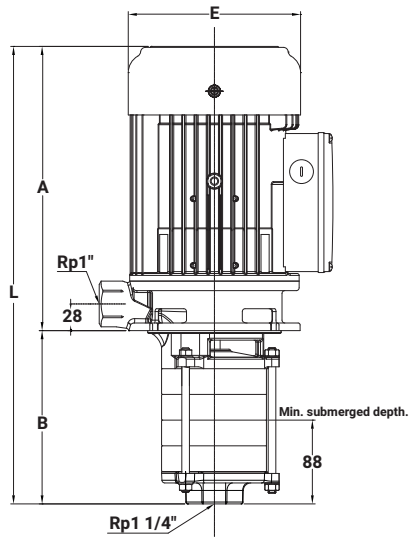
Performance Curve, 60Hz

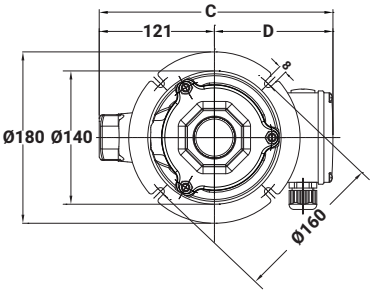


Electrical Data, 50/60Hz

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere $I_{1/1}$(A)	Service Factor	Ampere I_{max}(A)
TPHK 8T2-2EL	3	A6V	50 60	200-230/342-415 220-240/380-480	1.1	5.2-5.4/3.1-3.4 4.6-4.6/2.8-3.1	1.1 1.4	5.5-5.7/3.3-3.5 6.2-5.7/3.6-3.5
TPHK 8T3-3EL	3	A9V	50 60	200-230/342-380 220-240/380-440	2.2	9.5-10.5/5.5-5.6 8.6-8.4/4.9-5.0	1.1 1.5	10.2-10.9/5.9-5.9 12.1-11.2/6.9-6.4
TPHK 8T4-4EL	3	A9V	50 60	200-230/342-380 220-240/380-440	2.2	9.5-10.5/5.5-5.6 8.6-8.4/4.9-5.0	1.1 1.5	10.2-10.9/5.9-5.9 12.1-11.2/6.9-6.4
TPHK 8T5-5EL	3	A9V	50 60	200-230/342-380 220-240/380-440	3.0	12.2-13.1/7.1-7.1 11.2-10.7/6.4-6.3	1.1 1.3	13.4-14.0/7.9-7.8 14.5-13.3/8.3-7.6
TPHK 8T6-6EL	3	A9V	50 60	200-230/342-380 220-240/380-440	3.4 3.7	13.4-13.0/7.8-7.4 13.4-12.6/7.7-7.0	1.1 1.3	14.6-13.9/8.5-8.0 16.4-15.1/9.4-8.4

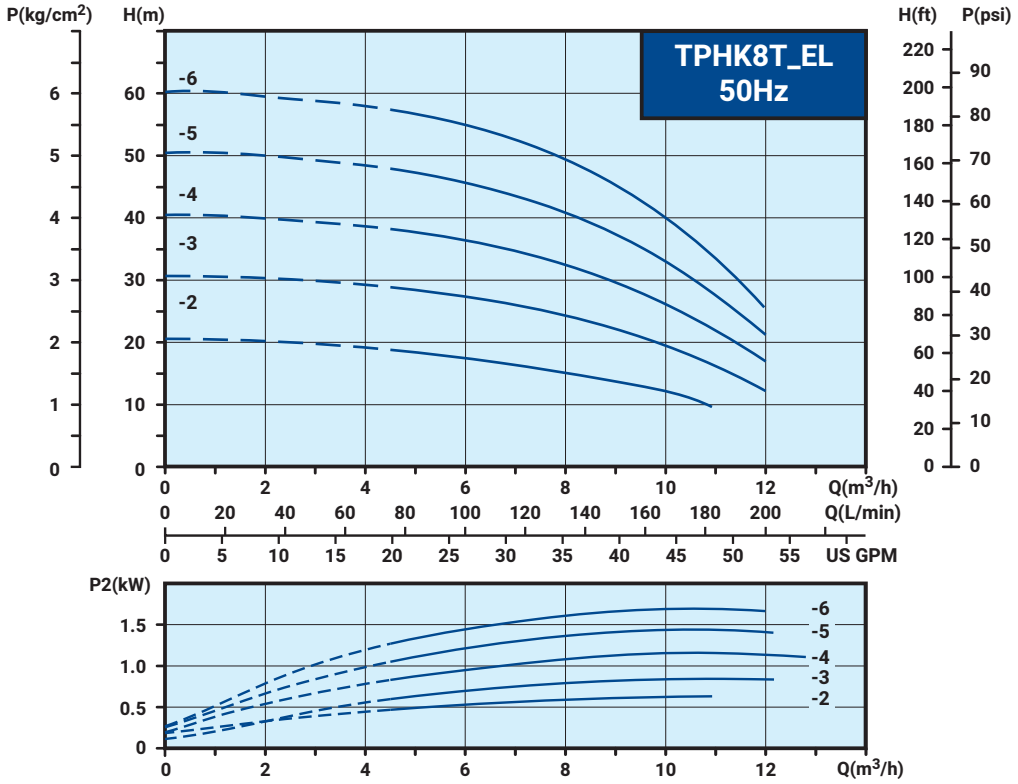
Dimensions



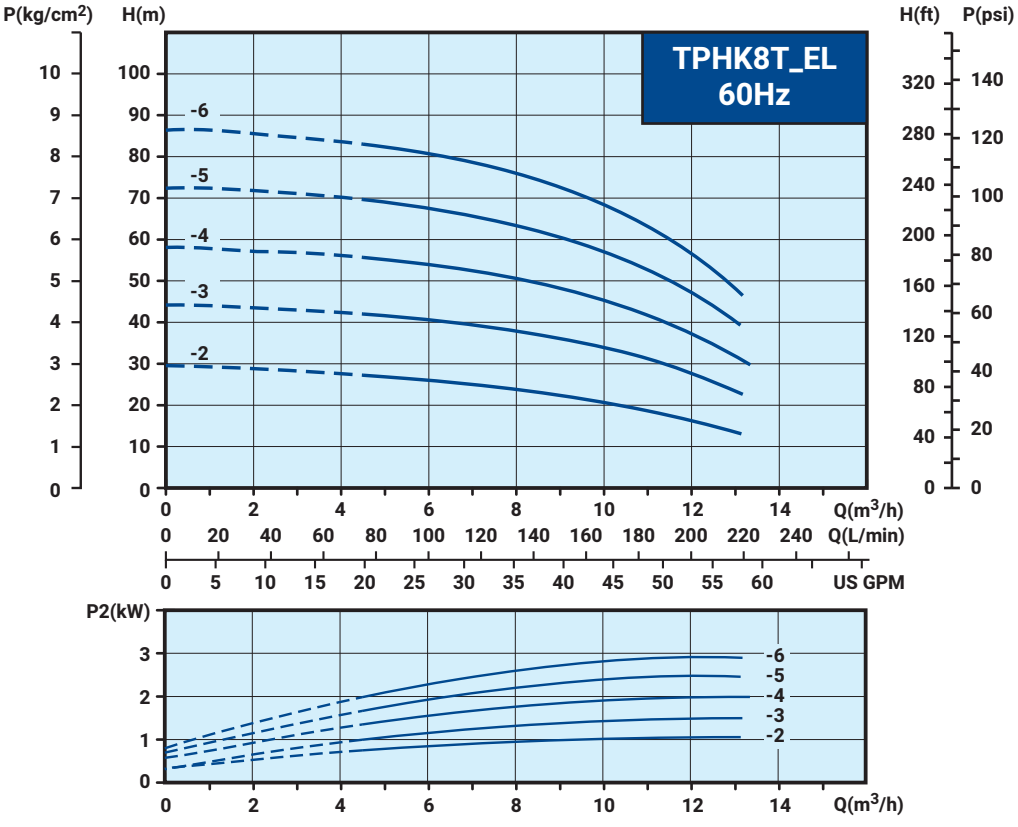


Model	A mm	B mm	L mm	C mm	D mm	E mm	N.W. kg	
TPHK 8T2-2EL	284	182	466	231	110	145	17.7	24
TPHK 8T3-3EL	321	209	530	244	123	181	24.7	24
TPHK 8T4-4EL	321	236	557	244	123	181	25.7	15
TPHK 8T5-5EL	346	263	609	244	123	181	28.7	15
TPHK 8T6-6EL	366	290	656	244	123	181	31.7	15

Performance Curve, 50Hz



Performance Curve, 60Hz



WALRUS PUMP

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All specifications are subject to change without notice. TPHK_L-IE3-EN002-202405