

**PHOENIX**

# VERTICAL MULTI-STAGE HIGH PRESSURE CENTRIFUGAL PUMP

***FP-TPRK Series***



**PHOENIX**

**TOP PHOENIX  
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# FP-TPRK Series Immersible Pump



FP-TPRK1T33-33

## 50Hz

**Power:** 1.5 - 5.5 kW

**Head:** Up to 240 M

**Flow:** Up to 140 L/min

## 60Hz

**Power:** 1.5 - 7.5 kW

**Head:** Up to 240 M

**Flow:** Up to 170 L/min

**Outlet:** 1¼"

## Applications

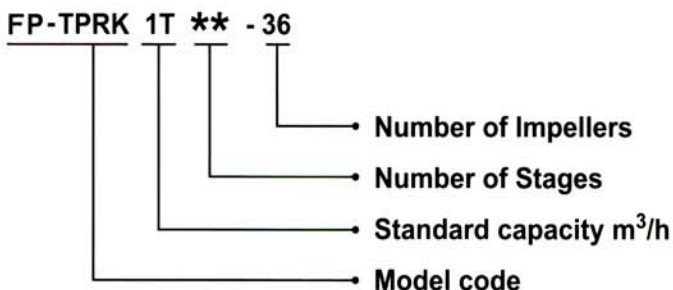
The FP-TPRK Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools, to carry fluids such as water, coolant, light oil and other clean, non aggressive matters.

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

## Operating Conditions

1. Ambient temperature : Max. +40°C
2. Liquid temperature range : +0°C ~ +90°C
3. Operating pressure : Max. 30 kg/cm<sup>2</sup>
4. Submerged depth : Min. 40mm

## Model code



## Pump Construction

Immersible vertical multistage centrifugal pump, self-priming, coupling connection between pump and motor, stainless steel construction design ensures corrosion-free operation.

## Motor

Nominal speed : 2900 or 3500 rpm

Frequency range : 50 or 60 Hz

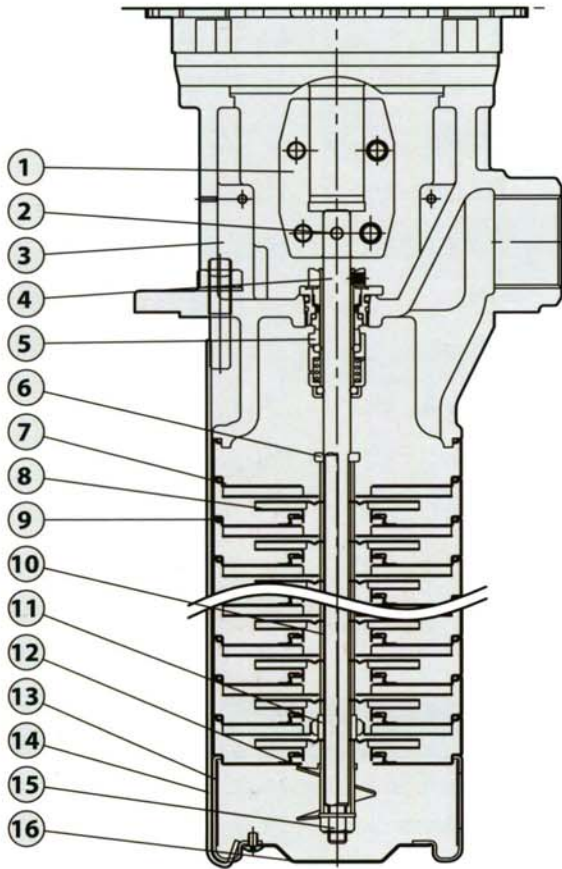
Standard voltages : 3Ø 198-242 / 342-418V

Enclosure class : IP54

Insulation class : F.

# FP-TPRK Series Immersible Pump

## Sectional drawing



## Materials

No.	Part name	Material
1	Coupling	SUS304/FC200
2	Pin	SUS304
3	Pump Casing	Cast iron FCD450
4	Shaft	SUS304
5	Mechanical Seal	RSSH
6	Sleeve	SUS304
7	Intermediate Chamber	SUS304
8	Impeller	SUS304
9	O-ring	HNBR
10	Sleeve(Impeller)	SUS304
11	Bearing	SIC
12	Priming Screw	SUS304
13	Suction Intercon-necter	SUS304
14	Strap	SUS304
15	Lock Nut	SUS304
16	Filter	SUS304

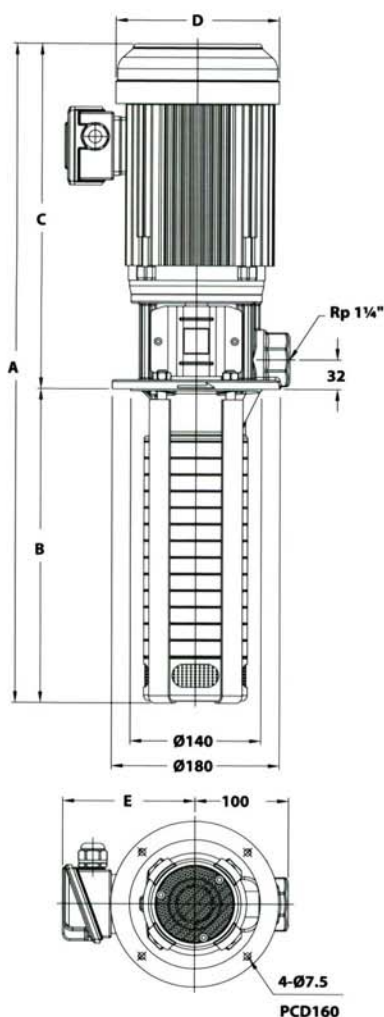
## Options on request

- Special mechanical seal

Mechanical seal type	Material	
	Stationary Face/ Rotary Face	Cup Gasket & O Ring
RSSH	(S)Silicon carbide/	(H)HNBR
RSSE	(S)Silicon carbide	(E)EPDM

# FP-TPRK Series

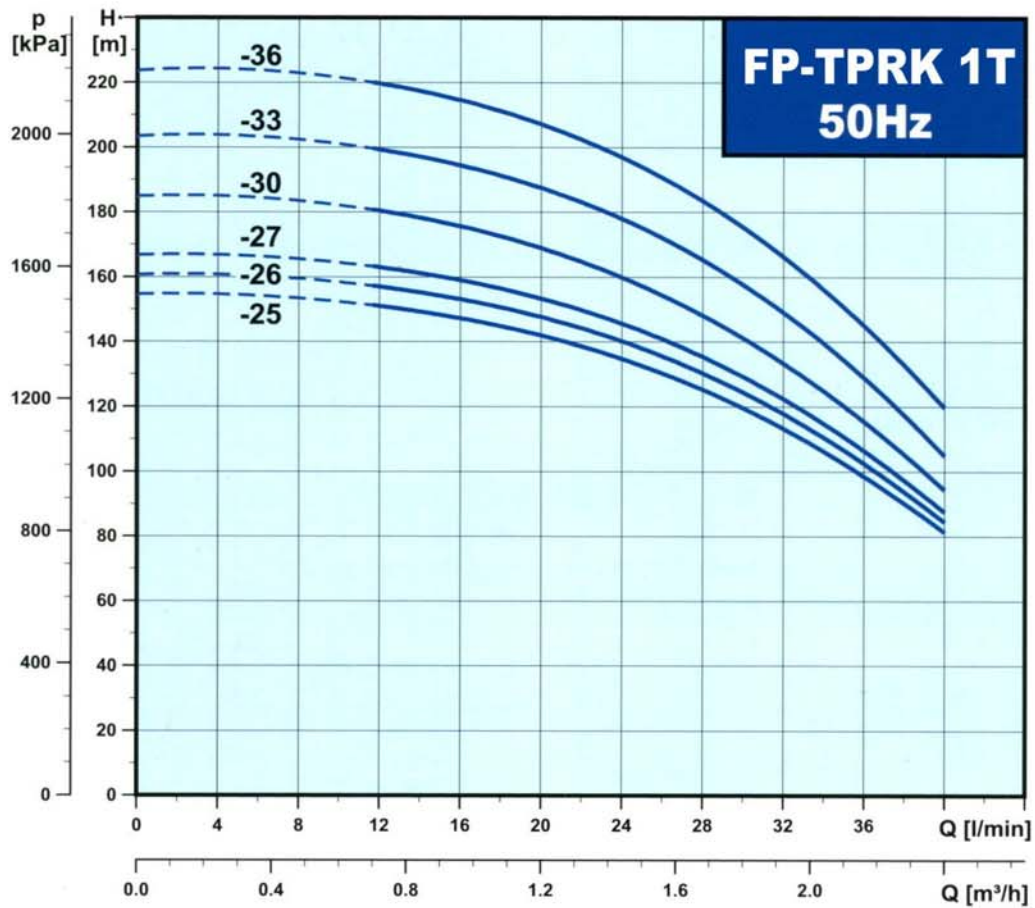
## Dimensions ( mm )



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	N.W. (kg)	■ ■ ■ ■ ■ ■
<b>FP-TPRK 1T 50Hz</b>							
FP-TPRK1T 25-25	951	576	375	175	142	28.7	6
FP-TPRK1T 26-26	969	594	375	175	142	29.0	6
FP-TPRK1T 27-27	987	612	375	175	142	29.3	6
FP-TPRK1T 30-30	1041	666	375	175	142	30.0	6
FP-TPRK1T 33-33	1095	720	375	175	142	30.8	6
FP-TPRK1T 36-36	1149	774	375	175	142	31.6	6
<b>FP-TPRK 1T 60Hz</b>							
FP-TPRK1T 15-15	771	396	375	175	142	26.1	6
FP-TPRK1T 17-17	807	432	375	175	142	26.6	6
FP-TPRK1T 19-19	843	468	375	175	142	27.2	6
FP-TPRK1T 21-21	879	504	375	175	142	27.7	6
FP-TPRK1T 22-22	897	522	375	175	142	28.0	6
FP-TPRK1T 23-23	915	540	375	175	142	28.2	6
FP-TPRK1T 25-25	951	576	375	175	142	28.7	6
FP-TPRK1T 26-26	1032	594	438	219	173	44.4	6
FP-TPRK1T 27-27	1050	612	438	219	173	44.7	6
<b>FP-TPRK 3T 50Hz</b>							
FP-TPRK3T 17-17	807	432	375	175	142	26.6	6
FP-TPRK3T 19-19	843	468	375	175	142	27.2	6
FP-TPRK3T 21-21	879	504	375	175	142	27.7	6
FP-TPRK3T 22-22	897	522	375	175	142	28.0	6
FP-TPRK3T 23-23	915	540	375	175	142	28.2	6
FP-TPRK3T 25-25	951	576	375	175	142	28.7	6
FP-TPRK3T 26-26	969	594	375	175	142	29.0	6
FP-TPRK3T 27-27	987	612	375	175	142	29.3	6
FP-TPRK3T 30-30	1104	666	438	219	173	44.7	6
FP-TPRK3T 33-33	1158	720	438	219	173	45.4	6
FP-TPRK3T 36-36	1212	774	438	219	173	46.3	6
<b>FP-TPRK 3T 60Hz</b>							
FP-TPRK3T 9 - 9	663	288	375	175	142	24.6	6
FP-TPRK3T 10-10	681	306	375	175	142	24.8	6
FP-TPRK3T 11-11	699	324	375	175	142	25.1	6
FP-TPRK3T 12-12	717	342	375	175	142	25.3	6
FP-TPRK3T 13-13	735	360	375	175	142	26.6	6
FP-TPRK3T 15-15	771	396	375	175	142	26.1	6
FP-TPRK3T 17-17	807	432	375	175	142	26.6	6
FP-TPRK3T 19-19	906	468	438	219	173	42.7	6
FP-TPRK3T 21-21	942	504	438	219	173	43.2	6
FP-TPRK3T 22-22	960	522	438	219	173	43.4	6
FP-TPRK3T 23-23	978	540	438	219	173	43.7	6
FP-TPRK3T 25-25	1014	576	438	219	173	47.2	6
FP-TPRK3T 26-26	1032	594	438	219	173	47.5	6
<b>FP-TPRK 5T 50Hz</b>							
FP-TPRK5T 9 - 9	735	360	375	175	142	26.0	6
FP-TPRK5T 10-10	762	387	375	175	142	26.4	6
FP-TPRK5T 12-12	816	441	375	175	142	27.1	6
FP-TPRK5T 14-14	870	495	375	175	142	27.8	6
FP-TPRK5T 16-16	924	549	375	175	142	28.5	6
FP-TPRK5T 17-17	1014	576	438	219	173	44.3	6
FP-TPRK5T 18-18	1041	603	438	219	173	44.6	6
FP-TPRK5T 19-19	1068	630	438	219	173	45.0	6
FP-TPRK5T 20-20	1095	657	438	219	173	45.7	6
FP-TPRK5T 21-21	1122	684	438	219	173	46.1	6
FP-TPRK5T 22-22	1149	711	438	219	173	48.4	6
FP-TPRK5T 24-24	1203	765	438	219	173	49.1	6
FP-TPRK5T 26-26	1257	819	438	219	173	49.8	6
FP-TPRK5T 29-29	1338	900	438	219	173	50.9	-
FP-TPRK5T 32-32	1497	981	516	268	201	78.7	-
<b>FP-TPRK 5T 60Hz</b>							
FP-TPRK5T 5 - 5	627	252	375	175	142	24.6	6
FP-TPRK5T 6 - 6	654	279	375	175	142	25.0	6
FP-TPRK5T 7 - 7	681	306	375	175	142	25.3	6
FP-TPRK5T 8 - 8	708	333	375	175	142	25.7	6
FP-TPRK5T 10-10	825	387	438	219	173	41.1	6
FP-TPRK5T 12-12	879	441	438	219	173	41.8	6
FP-TPRK5T 14-14	933	495	438	219	173	44.5	6
FP-TPRK5T 16-16	987	549	438	219	173	45.2	6
FP-TPRK5T 18-18	1119	603	516	268	201	45.9	-
FP-TPRK5T 19-19	1146	630	516	268	201	73.8	-
FP-TPRK5T 20-20	1173	657	516	268	201	74.2	-
FP-TPRK5T 22-22	1227	711	516	268	201	74.9	-
FP-TPRK5T 24-24	1281	765	516	268	201	80.6	-

# FP-TPRK 1T

## Performance curve, 50Hz

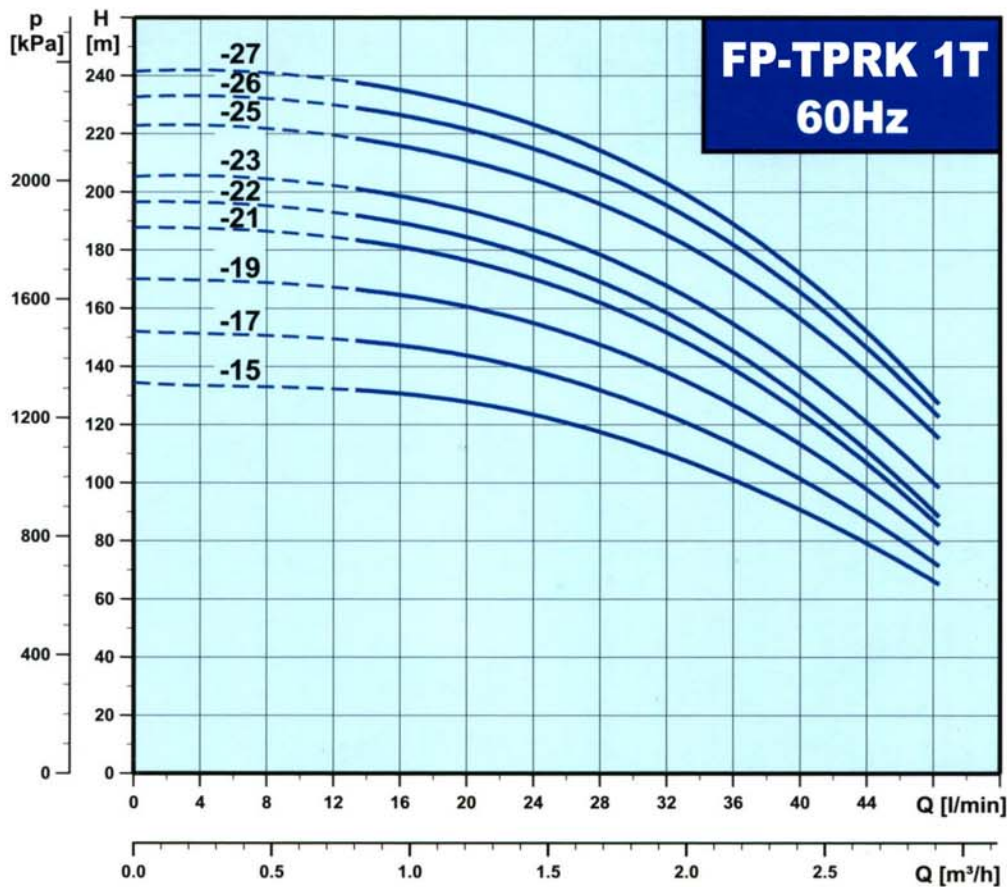


## Electrical data, 50Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
FP-TPRK1T 25-25	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP-TPRK1T 26-26	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP-TPRK1T 27-27	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP-TPRK1T 30-30	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP-TPRK1T 33-33	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP-TPRK1T 36-36	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2

# FP-TPRK 1T

## Performance curve, 60Hz

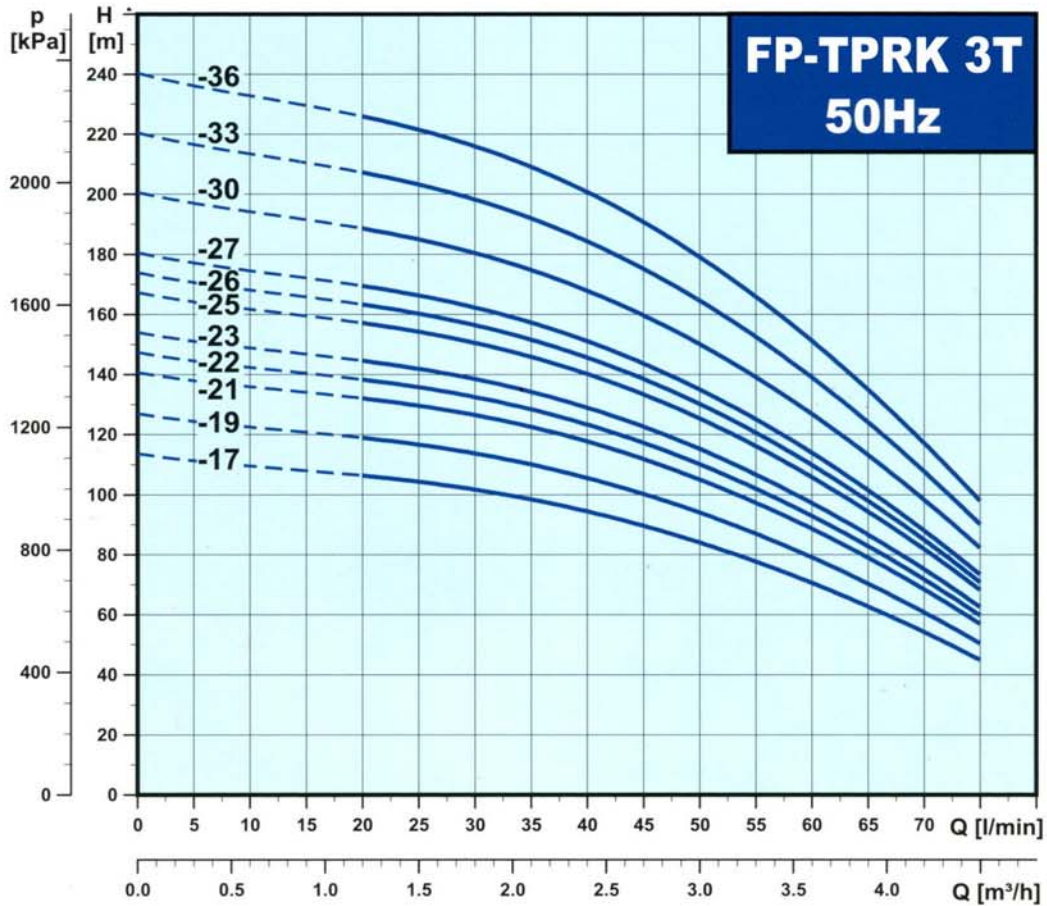


## Electrical data, 60Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
FP - TPRK1T 15-15	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK1T 17-17	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK1T 19-19	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK1T 21-21	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK1T 22-22	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK1T 23-23	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK1T 25-25	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK1T 26-26	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK1T 27-27	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4

# FP-TPRK 3T

## Performance curve, 50Hz

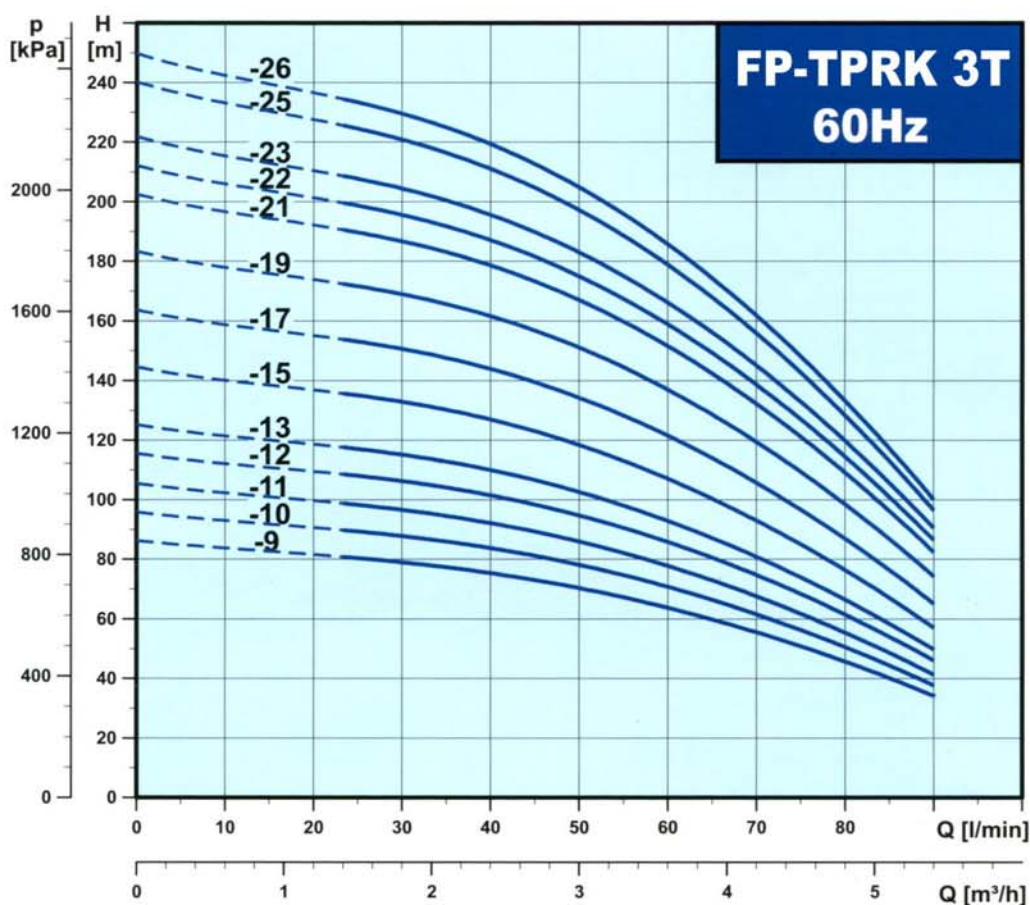


## Electrical data, 50Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
FP - TPRK3T 17-17	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK3T 19-19	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK3T 21-21	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 22-22	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 23-23	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 25-25	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 26-26	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 27-27	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 30-30	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK3T 33-33	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK3T 36-36	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4

# FP-TPRK 3T

## Performance curve, 60Hz



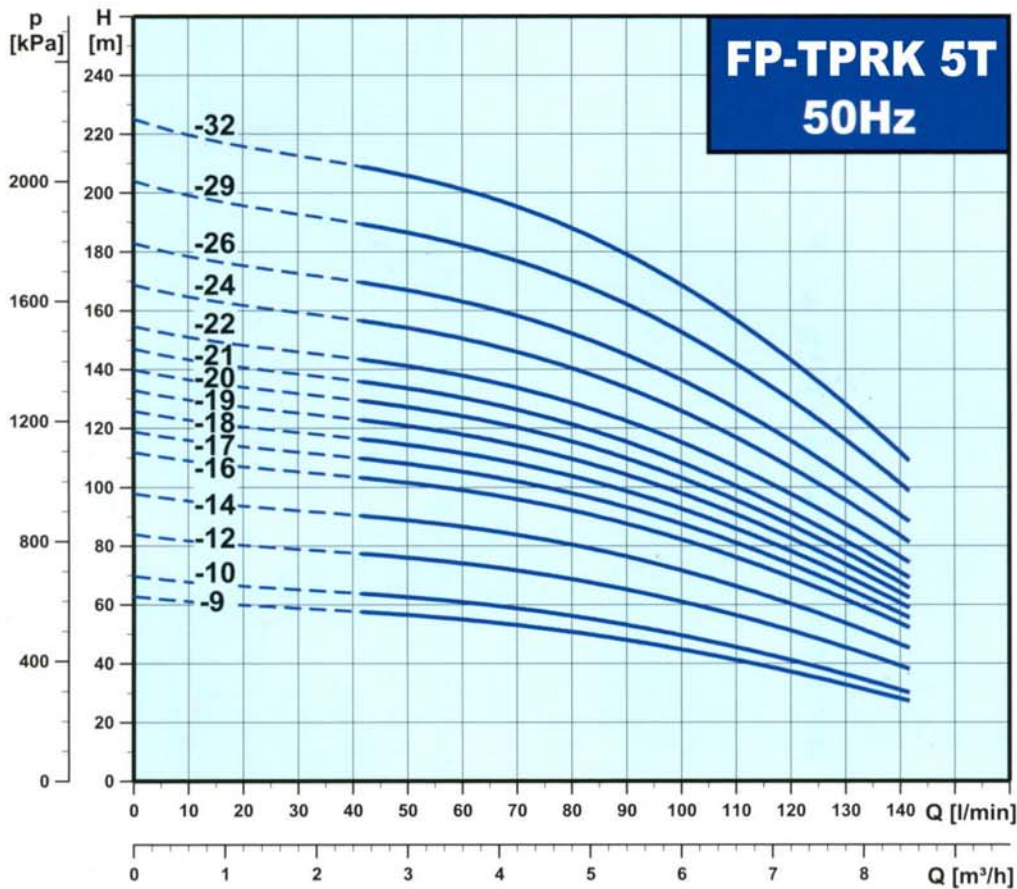
## Electrical data, 60Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
FP - TPRK3T 9 - 9	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK3T 10-10	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK3T 11-11	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK3T 12-12	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 13-13	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 15-15	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 17-17	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK3T 19-19	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK3T 21-21	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK3T 22-22	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK3T 23-23	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK3T 25-25	3	4	198-242 / 342-418	16.6-13.6 / 9.6-7.9
FP - TPRK3T 26-26	3	4	198-242 / 342-418	16.6-13.6 / 9.6-7.9



# FP-TPRK 5T

## Performance curve, 50Hz

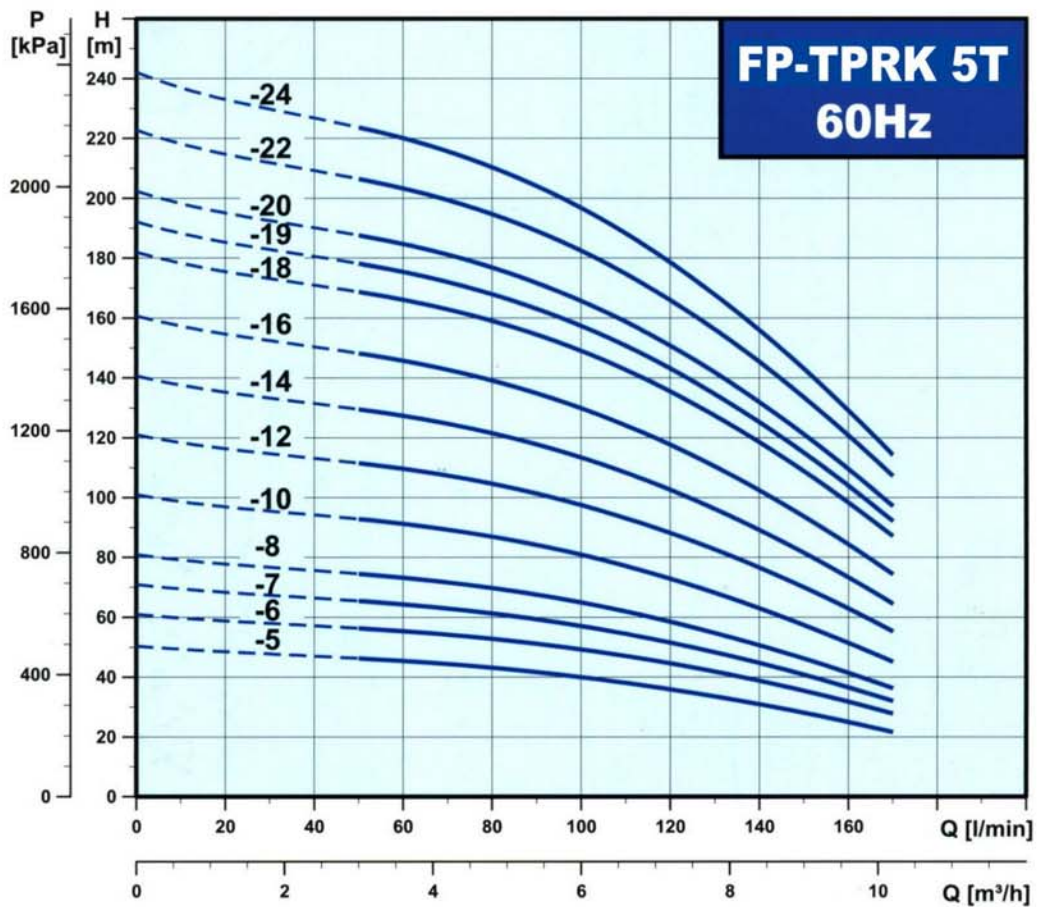


## Electrical data, 50Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
FP - TPRK5T 9 - 9	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK5T 10-10	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK5T 12-12	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK5T 14-14	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK5T 16-16	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK5T 17-17	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK5T 18-18	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK5T 19-19	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK5T 20-20	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK5T 21-21	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK5T 22-22	3	4	198-242 / 342-418	16.6-13.6 / 9.6-7.9
FP - TPRK5T 24-24	3	4	198-242 / 342-418	16.6-13.6 / 9.6-7.9
FP - TPRK5T 26-26	3	4	198-242 / 342-418	16.6-13.6 / 9.6-7.9
FP - TPRK5T 29-29	3	4	198-242 / 342-418	16.6-13.6 / 9.6-7.9
FP - TPRK5T 32-32	3	5.5	198-242 / 342-418	21-17.3 / 12.2-10

# FP-TPRK 5T

## Performance curve, 60Hz



## Electrical data, 60Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
FP - TPRK5T 5 - 5	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
FP - TPRK5T 6 - 6	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK5T 7 - 7	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK5T 8 - 8	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
FP - TPRK5T 10-10	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK5T 12-12	3	3	198-242 / 342-418	11.4-9.3 / 6.6-5.4
FP - TPRK5T 14-14	3	4	198-242 / 342-418	16.6-13.6 / 9.6-7.9
FP - TPRK5T 16-16	3	4	198-242 / 342-418	16.6-13.6 / 9.6-7.9
FP - TPRK5T 18-18	3	5.5	198-242 / 342-418	21-17.3 / 12.2-10
FP - TPRK5T 19-19	3	5.5	198-242 / 342-418	21-17.3 / 12.2-10
FP - TPRK5T 20-20	3	5.5	198-242 / 342-418	21-17.3 / 12.2-10
FP - TPRK5T 22-22	3	5.5	198-242 / 342-418	21-17.3 / 12.2-10
FP - TPRK5T 24-24	3	7.5	198-242 / 342-418	28-23 / 16-13