

Pump Data Sheet

3" Nominal Discharge
2 3/4" Solid Size
4-poles; 1750 RPM



Vortex Impeller

Model
TP 70 V

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Electrical Data

Curve Number	Model Number	Impeller / Motor (mm) Code	Voltage	Phase	Speed	Max. B.H.P.	AMPS F.L.	AMPS L.R.	Power Factor	Motor Eff. (%)	Cable O.D.(mm)
1	TP70V20/4/1	140 / 20	230	1	1750	1.5	7.5	27.0	0.93	70	12
2	TP70V20/4/3	140 / 20	230/460	3	1750	1.5	5.6/2.8	23.0/11.5	0.70	74	12

Cable Size on all TP70 (FM) Pumps: 4G1.5 (7X1.5)

Motor Construction

Motor Type	Enclosed submersible
NEMA Insulation Code	Class F
Service Factor	1.15
NEMA Design Letter	B
Standard Cable Length	30 ft
Available Motor Voltages	1 Phase: 115V, 230V; 3 Phase: 200V, 230V, 460V or 575V
Thermal Sensors embedded in Windings	Included in all FM-pumps. Must be wired into Control Panel to validate Warranty.
Optional Explosion Proof Construction	Class I, Div 1, Groups C & D – Factory mutual approved
Optional external, single Wire, conductive Seal Probes are available on all Pumps. (Cable O.D. is 7mm)	

Single Phase Units require Start/Run Capacitors

Standard Material Of Construction

Motor Housing	Cast Iron ASTM A48; Class 40B
Volute	Cast Iron ASTM A48, Class 40B
Impeller	Cast Iron ASTM A48, Class 40B
Volute Wear Ring	Bronze ASTM B144
Shaft	AISI 430F Stainless Steel
Mechanical Seal – Impeller Side	Silicon Carbide vs Silicon Carbide
Mechanical Seal – Motor Side	Silicon Carbide vs Silicon Carbide
Fasteners	AISI 304 Stainless Steel
O-Rings	Nitrile Rubber
Upper Bearing	Deep Groove Ball Bearing
Lower Bearing	Double Row Angular Ball Bearing
Power Cable Sheathing	Nitrile Rubber

Please see Technical Section of Catalogue for additional information

PTI reserves the Right to change Product, Material or Design Data as required without Notification.