

# Pump Data Sheet

**2 1/2" Nominal Discharge**  
**2" / 2 1/2" Solid Size**  
**2-(4-)poles; 3450 (1750) RPM** Vortex Impeller



**Model**  
**TP 50 V**

Page 1 of 1

## 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	TP50V24/2/1	112/6.5 / 24	230	1	3450	1.9	8.0	23.0	0.97	76	12
2	TP50V24/2/3	112/11.5 / 24	230/460	3	3450	1.9	5.4/2.7	23.0/11.5	0.79	76	12
3	TP50V24/4/3	160 / 24	230/460	1	1750	1.9	5.2/2.6	48.0/21.0	0.84	78	12
4	TP50V54L/2/3	110 / 54L	230/460	3	3450	4.6	12.0/6.0	70.2/40.8	0.84	85	12
5	TP50V54N/2/3	120 / 54N	230/460	3	3450	4.6	12.0/6.0	70.2/40.8	0.84	85	12
6	TP50V54HL/2/3	135 / 54H	230/460	3	3450	4.7	12.0/6.0	70.2/40.8	0.84	85	12

Cable Size on all TP50 (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	Lip Seal
Fasteners	AISI 304 Stainless Steel
O-Rings	Nitrile Rubber
Upper Bearing	Deep Groove Ball Bearing
Lower Bearing (24/2/1 – 24/2/3)	Deep Groove Ball bearing
Lower Bearing (24/4/3 – 54H/2/3)	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.