

Pump Data Sheet

2 1/2" Nominal Discharge
2" Solid Size
2-poles; 3450 RPM



Enclosed Single-Vane Impeller

Model
TP 50 M

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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 LR.	Power Factor	Motor Eff. (%)	Cable O.D.(mm)
1	TP50M16/2/1	78 / 16	230	1	3450	1.2	5.4	14.5	0.97	74	12
2	TP50M16/2/3	78 / 16	230/460	3	3450	1.2	3.8/1.9	16.0/8.0	0.79	76	12
3	TP50M24/2/1	84 / 24	230	1	3450	1.7	7.8	23.0	0.97	76	12
4	TP50M24L/2/3	88 / 24L	230/460	3	3450	1.9	5.4/2.7	23.0/11.5	0.79	78	12
5	TP50M24H/2/3	102 / 24H	230/230	3	3450	1.9	5.4/2.7	23.0/11.5	0.79	78	12
6	TP50M38L/2/3	105 / 38L	230/460	3	3450	3.1	8.0/4.0	35.0/20.0	0.88	83	12
7	TP50M38H/2/3	114 / 38H	230/460	3	3450	3.1	8.0/4.0	35.0/20.0	0.88	83	12
8	TP50M54L/2/3	114 / 54L	230/460	3	3450	4.7	12.0/6.0	70.2/40.8	0.84	85	12
9	TP50M54H/2/3	124 / 54H	230/460	3	3450	4.6	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 (16 – 24)	Deep Groove Ball bearing
Lower Bearing (38 – 54)	Double Row Angular Ball Bearing
Power Cable Sheathing	Nitrile Rubber

Please see Technical Section of Catalogue for additional Information

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