

Pump Data Sheet

6" Nominal Discharge
4" Solid Size
6-poles; 1160 RPM



Enclosed Single-Vane Impeller

Model
AMX 646

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Electrical Data

| Curve Number | Model | Impeller / Motor (mm) / Code | Voltage | Max. B.H.P. | AMPS F.L. | AMPS LR. | Power Factor | Motor Eff. (%) | Cable Size | Cable O.D.(mm) |
|--------------|---------|------------------------------|-----------|-------------|-------------|----------|--------------|----------------|------------|----------------|
| 1 | AMX646- | 260 / 6.2N | 230 / 460 | 6.1 | 18.0 / 9.0 | 68 / 34 | 0.78 | 82 | 7G2.5 | 18 |
| 2 | AMX646- | 270 / 8.3N | 230 / 460 | 6.9 | 24.0 / 12.0 | 86 / 43 | 0.79 | 82 | 4G4* | 15 |
| 3 | AMX646- | 280 / 8.3N | 230 / 460 | 8.0 | 24.0 / 12.0 | 86 / 43 | 0.79 | 82 | 4G4* | 15 |
| 4 | AMX646- | 300 / 8.3N | 230 / 460 | 8.1 | 24.0 / 12.0 | 86 / 43 | 0.79 | 82 | 4G4* | 15 |
| 5 | AMX646- | 300 / 9.8P | 230 / 460 | 9.7 | 28.0 / 14.0 | 101 / 51 | 0.78 | 85 | 7G4 | 22.5 |
| 6 | AMX646- | 310 / 9.8P | 230 / 460 | 9.7 | 28.0 / 14.0 | 101 / 51 | 0.78 | 85 | 7G4 | 22.5 |
| 7 | AMX646- | 310 / 15.3P | 230 / 460 | 10.7 | 43.0 / 21.5 | 155 / 78 | 0.78 | 85 | 4G10* | 25 |

* Separate Thermal Sensor Cable is provided on indicated Pumps.

4G1.5

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Motor Construction

| | |
|--|--|
| Motor Type | Enclosed submersible air-filled |
| NEMA Insulation Code | Class F |
| Service Factor | 1.15 |
| NEMA Design Letter | B |
| Standard Cable Length | 30 ft |
| Available Motor Voltages | 200V, 230V, 460V or 575V |
| Thermal Sensors embedded in Windings | Included in all 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) | |

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 | Single Row 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.