

# Pump Data Sheet

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



Enclosed Multi-Vane Impeller

**Model**  
**AK434**

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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	AK434-	260 / 29P	230 / 460	29.0	71.0 / 35.5	405 / 202	0.86	89	(2)4G6	17
2	AK434-	270 / 29P	230 / 460	29.0	71.0 / 35.5	405 / 202	0.86	89	(2)4G6	17
3	AK434-	270 / 34.5F	230 / 460 460	34.4	84.0 / 42.0 42.0	454 / 227 227	0.85	91	(2)4G10 4G10	25 25
4	AK434-	280 / 29P	230 / 460	29.0	71.0 / 35.5	405 / 202	0.86	89	(2)4G6	17
5	AK434-	280 / 34.5F	230 / 460 460	34.4	84.0 / 42.0 42.0	454 / 227 227	0.85	91	(2)4G10 4G10	25 25
6	AK434-	280 / 39.2F	230 / 460 460	39.2	96.0 / 48.0 48.0	528 / 254 254	0.85	91	(2)4G10 4G10	25 25
7	AK434-	290 / 34.5F	230 / 460 460	34.5	84.0 / 42.0 42.0	454 / 227 227	0.85	91	(2)4G10 4G10	25 25
8	AK434-	290 / 39.2F	230 / 460 460	39.0	96.0 / 48.0 48.0	528 / 264 264	0.85	91	(2)4G10 4G10	25 25
9	AK434-	290 / 45.6F	230 / 460 460	45.6	110.0 / 55.0 55.0	638 / 319 319	0.84	92	(2)4G16 4G16	28 28

Separate Thermal Sensor Cable is provided on all AK434 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.