

# Pump Data Sheet

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



Enclosed Multi-Vane Impeller

**Model**  
**AK 846**

Page 1 of 1

## 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	AK846-	330 / 30F	230 / 460 460	30.0	80 / 40 40	376 / 188 188	0.80	88	(2)4G10 4G10	25 25
2	AK846-	330 / 34.5F	230 / 460 460	33.0	92 / 46 46	451 / 225 225	0.79	88	(2)4G10 4G10	25 25
3	AK846-	350 / 34.5F	230 / 460 460	34.5	92 / 46 46	451 / 225 225	0.79	88	(2)4G10 4G10	25 25
4	AK846-	350 / 40F	230 / 460 460	39.6	106 / 53 53	541 / 270 270	0.79	89	(2)4G10 4G10	25 25
5	AK846-	374 / 40F	230 / 460 460	40.0	106 / 53 53	541 / 270 270	0.79	89	(2)4G10 4G10	25 25
6	AK846-	374 / 52G	230 460	46.9	134 67	563 282	0.80	91	(2)4G16 4G16	28 28
7	AK846-	390 / 52G	230 460	52.0	134 67	563 282	0.80	91	(2)4G16 4G16	28 28
8	AK846-	400 / 52G	230 460	51.3	134 67	563 282	0.80	91	(2)4G16 4G16	28 28
9	AK846-	400 / 64G	230 460	59.4	164 82	656 328	0.80	91	(2)4G25 4G25	30 30

Separate Thermal Sensor Cable is provided on all AK846 Pumps.

4G1.5

12

## 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**

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