

AN ISO 9001 : 2008 CERTIFIED COMPANY



CM/L No : 7960089

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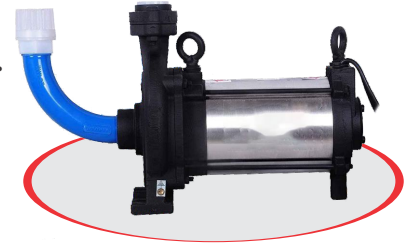
**YOUR WATER'S BEST FRIEND  
OUR PUMP,  
YOUR PEACE OF MIND!**



**VishvKARMA**  
ENGINEERING WORKS

## Salient Features

- Range : 0.5 HP to 5 HP in Single Phase And 3 HP to 30 HP in Three Phase
- Suitable for Wide Voltage Fluctuations
- Available in Aluminium and Copper Rotor. Energy efficient.
- Best Suited for Fluctuating Water Level in Well/Pond/River etc.
- Robust and rugged in Construction.
- Easy to maintain.



## Material of Constructions

Motor Bush	LTB 4 - IS : 318
Thrust Bearing	Carbon V/s SS
Stamping	CRC / CRNO
Rotor	Aluminium Die Cast / Copper
Rotor Shaft	SS 410
Stator Body	Cast Iron FG 200
Volute (Chamber)	Cast Iron FG 200
Suction Housing	Cast Iron FG 200
Impellers	Cast Iron FG 200
Winding Wire	Poly Wrap EC Grade Copper

- Applications:-
- Agriculture Irrigations / Sprinkler / Drip Application
  - Fountains.

PERFORMANCE CHART OF OPENWELL PUMPSET 220 VOLTS 50HZ

MODEL	HP	DELIVERY LINE	R.P.M.	HEAD IN METER										LITER PER MINUTE
				7	10	15	18	20	25	30	35	40		
VE 05	0.5	25*25	2880	120	100	50	20	0						
VE 10	1	25*25	2880	200	180	150	130	80	50	0				
VE 20	2	65*50	2880	570	500	450	410	370	220	0				
VE 30	3	65*50	2880	610	560	520	500	415	280	100	0			
VE 50	5	65*65	2880	900	870	820	760	680	400	319	0			
VE 60	5	65*50	2880	850	780	740	710	650	600	560	480	270		

THREE PHASE OPENWELL PUMPSET

PERFORMANCE CHART OF OPENWELL PUMPSET 415 VOLTS 50HZ

MODEL	HP	M.M.	HEAD IN METER											LITER PER MINUTE	
			7	18	22	24	28	30	32	36	40	42	45		54
VK-9350	3	65/50	580	520	460	380	300	0	0						
VK-7350	3	65/50	550	475	413	336	0								
VK-9550	5	65/50	660	630	610	600	590	575	560	463	324	180	0	0	
VK-9565	5	65/65	870	820	750	680	600	450	350						
VK-9750	7.5	65/50	800	780	770	750	730	710	680	650	610	550	470	0	
VK-9765	7.5	65/65		1150	1050	950	850	720	600	350	0				
VK-9150	10	65/50						800	780	715	700	680	665	300	
VK-9165	10	75/50			1240	1200	1100	1050	800	760					
VK-91100	10	100/100			1500	1400	1120	1075							

## PRODUCT SPECIFICATION

⊙ Stator Shell	S S 304
⊙ Motor Shaft	S S 420
⊙ Winding Wire	Poly Propylene Copper
⊙ Stamping	CRNO
⊙ Thrust Bearing	Carbon
⊙ Degree Of Protection	IP 68
⊙ Max Water Temperature	35°C
⊙ Nos. Of Start Per Hour	Max 20 At Regular Intervals
⊙ Voltage Variation	+10%/ -25% At Rated Voltage
⊙ Max Depth Immersion	10 To 200 Metres
⊙ Maximum Outer Dia	96 MM
⊙ Power Rang	0.5 Hp to 3.0 Hp - Single Phase 1 Hp to 7.5 Hp - Three Phase
⊙ A.C. Single Phase	220-230 VOLT - 50 HZ
⊙ A.C. Three Phase	380-400-415 VOLT - 50HZ
⊙ Speed	Direct Online (D.O.L) 2850 RPM



## PRODUCT FEATURE

- ⊙ **Orbit** Water Lubricated Submersible Motor are Robust Rewindable and Pre-Filled With Clean Water Mixed With Anti Corrosion Fluid.
- ⊙ Bearing: Water Lubricated Radial And Thrust Bearing (Carbon V/S Chrome Steel).
- ⊙ Shaft Extension Made Of Satainless Steel Aisi 420.
- ⊙ High Efficiency Electrical Design For Lower Operating Cost.
- ⊙ Single Phase Motors Are Capacitor Start Capacitor Run (cscr) Design.
- ⊙ Pressure Compensation Diaphragm.
- ⊙ All Single Phase Motors Require Control Box.

## PRODUCT APPLICATION

Orbit submersible motors are suitable to couple with deep well submersible pump used for:

- ⊙ Residential Purpose
- ⊙ Irrigation
- ⊙ Fountains
- ⊙ Industrial Water Supply
- ⊙ Pressure Boosting Units
- ⊙ Gardens & Horticulture
- ⊙ Drip & Sprinkler Systems
- ⊙ Mining Industries
- ⊙ Oil & Gas Industries

## PRODUCT SPECIFICATION

◉ Connecting Piece	C.I Casting
◉ Upper & Lower Housing	Graded C.i Casting
◉ Motor Base	S.S Casting
◉ Stator Shell	S S 304
◉ Motor Shaft	S S 420
◉ Winding Wire	Poly Propylene or PVC insulated
◉ Degree Of Protection	IP 68
◉ Max Water Temperature	35* c
◉ Nos. Of Start Per Hour	Max 20 At Regular Intervals
◉ Voltage Variation	+6%/ -10% At Rated Voltage
◉ Max Depth Immersion	250 Metres.
◉ Maximum Outer Dia.	120 mm
◉ Power Range	4 Hp to 12.5 Hp - Three Phase 3 Hp to 5 Hp - Single Phase
◉ Voltage Range	380-400-415 volt - 50hz 180-215 volt - 50hz
◉ Speed	2900 rpm



## PRODUCT FEATURE

- ◉ Orbit Submersible Motors are robust Rewindable and pre-filled with Clean water mixed with non-toxic eco-frindly anti-corrosion fluid.
- ◉ Fully Stainless Steel Component.
- ◉ Stator Shell With Corrosion Resistant Stainless Steel.
- ◉ Bearing:water Lubricated Radial And Thrust Bearing.
- ◉ Shaft extension made of Stainless Steel AISI 420.
- ◉ High Efficiency Electrical Design For Lower Operating Cost.
- ◉ Pressure Compensation Disphragm.

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- ◉ Residential Purpose
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- ◉ Industrial Water Supply
- ◉ Pressure Boosting Units
- ◉ Sprinkler Systems
- ◉ Mining Industries
- ◉ Oil & Gas Industries
- ◉ De-watering
- ◉ Gardens



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◉ Motor Base	S.S Casting
◉ Stator Shell	S S 304
◉ Motor Shaft	S S 420
◉ Winding Wire	Poly Propylene or PVC insulated
◉ Degree Of Protection	IP 68
◉ Max Water Temperature	35* c
◉ Nos. Of Start Per Hour	Max 20 At Regular Intervals
◉ Voltage Variation	+6%/ -10% At Rated Voltage
◉ Max Depth Immersion	300 Metres.
◉ Maximum Outer Dia.	142 mm
◉ Power Range	3 Hp to 30 Hp - Three Phase 3 Hp to 7.5 Hp - Single Phase
◉ Voltage Range	380-400-415 volt - 50hz 180-215 volt - 50hz
◉ Speed	2900 rpm



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◉ Stator Shell	S S 304
◉ Motor Shaft	S S 420
◉ Winding Wire	Poly Propylene or PVC insulated
◉ Degree Of Protection	IP 68
◉ Max Water Temperature	35* c
◉ Nos. Of Start Per Hour	Max 20 At Regular Intervals
◉ Voltage Variation	+6%/ -10% At Rated Voltage
◉ Max Depth Immersion	300 Metres.
◉ Maximum Outer Dia.	200 mm
◉ Power Range	5 Hp to 50 Hp - Three Phase
◉ Voltage Range	380-400-415 volt - 50hz
◉ Speed	2900 rpm



## PRODUCT FEATURE

- ◉ Orbit Submersible Motors are robust Rewindable and pre-filled with Clean water mixed with non-toxic eco-friendly anti-corrosion fluid.
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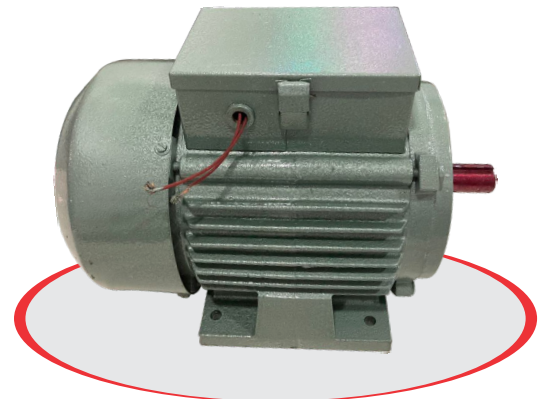
- ◉ Residential Purpose
- ◉ Irrigation
- ◉ Fountains
- ◉ Industrial Water Supply
- ◉ Pressure Boosting Units
- ◉ Sprinkler Systems
- ◉ Mining Industries
- ◉ Oil & Gas Industries
- ◉ De-watering
- ◉ Gardens

4 POLE = 1500 RPM								
Frame	KW	HP	Eff %	Current [A]	Cos [Ø]	RPM	Torque	Weight Kg.
							Rated Kg. m	
63	0.12	0.16	55.0	0.46	0.66	1376	0.09	6.0
63	0.18	0.25	57.0	0.66	0.68	1363	0.13	7.0
71	0.25	0.33	60.0	0.80	0.70	1374	0.18	8.0
71	0.37	0.50	64.0	1.10	0.69	1370	0.26	10.0
80	0.55	0.75	72.0	1.40	0.74	1395	0.38	15.0
80	0.75	1.00	73.0	1.90	0.75	1390	0.52	16.0
90S	1.10	1.50	75.0	2.80	0.75	1410	0.76	20.0
90L	1.50	2.00	78.0	3.40	0.77	1415	1.03	24.0
100L	2.20	3.00	81.0	4.80	0.80	1435	1.49	33.0
112M	3.70	5.00	84.0	7.60	0.82	1445	2.49	45.0
132S	5.50	7.50	86.0	11.0	0.82	1450	3.69	63.0
132M	7.50	10.0	87.0	15.0	0.83	1450	5.04	75.0
160M	9.30	12.5	88.0	18.0	0.84	1460	6.20	110
160M	11.0	15.0	89.0	21.5	0.84	1465	7.30	125
160L	15.0	20.0	90.0	28.4	0.84	1465	9.97	145

6 POLE = 1000 RPM								
Frame	KW	HP	Eff %	Current [A]	Cos [Ø]	RPM	Torque	Weight Kg.
							Rated Kg. m	
71	0.18	0.25	55.0	0.9	0.63	890	0.2	10.0
80	0.37	0.50	65.0	1.20	0.67	930	0.40	16.0
80	0.55	0.75	68.0	1.60	0.68	930	0.59	17.0
90S	0.75	1.00	74.0	2.00	0.72	935	0.78	20.0
90L	1.10	1.50	74.0	2.90	0.70	940	1.15	23.0
100L	1.50	2.00	75.0	3.90	0.72	938	1.56	30.0
112M	2.20	3.00	82.0	5.00	0.77	950	2.25	45.0
132S	3.70	5.00	84.0	8.00	0.78	960	3.75	65.0
132M	5.50	7.50	84.0	11.8	0.80	955	5.61	75.0
160M	7.50	10.0	86.0	15.8	0.80	970	7.53	110
160L	11.0	15.0	87.0	22.3	0.81	970	11.0	150

## MANUFACTURING & SUPPLY RANGE

- Standard Three Phase A.c. Motors Up To 20.0Hp
- Single Phase Motors Up To 3.0HP  
(Capacitor Start/Run, Universal, Split Phase, AC, Series, Repulsion, Shaded Pole, Etc.)
- Torque Motors & Vibrator Motors.
- SlipRing Induction Motors, Two Speed Motors.
- Special Mechanical & Electrical Modifications Required By The Customer are readily Incorporated.



## STANDARD SPECIFICATION

- RANGE** : 0.12 kw To 15Kw (FRAME 63 TO 160) IN 2,4,6,& 8 Poles.
- STANDARDS** : Performance Confirms to IS 325 & dimensions according to IS 1231 & 2223.
- VOLTAGE & FREQUENCY** : Motors designed are for a rated voltage of  $415 \pm 10\%$  & Freq.  $50\text{Hz} \pm 3\%$  Supply.
- RATING** : Motors are rated for continuous duty type S1 at an ambient of  $40^\circ\text{C}$ .
- MOUNTING** : Horizontal Foot Mounted, Vertical Flange Mounted & Face Mounted (B3, B5, B14).



**AN ISO 9001 : 2008 Certified Company**

Mfg by:

**VISHVAKARMA ENGINEERING WORKS**

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