

## 10" REWINDABLE MOTORS

These 10" rewindable motors, manufactured in ISO 9001 certified facilities, are built for dependable operation in 10" diameter or larger water wells. It is fitted with water lubricated radial and thrust bearings for maintenance-free operation. The motor is filled with a special FES93 fluid, providing frost protection down to -15 °C storage temperature. A special diaphragm ensures pressure compensation inside the motor. The Sand Fighter® SiC seal system is standard. For applications in aggressive media, motors made of 316 SS and 904 L are available.

### FEATURES & BENEFITS

- Easy to assemble with double flange
- Cable material according to drinking water regulations (VDE/ACS/KTW approved)
- Sand Fighter® SiC seal system for high performance in sand
- High efficiency electrical design for low operation cost
- All motors pre-filled and 100% tested
- Max. storage temperature 5 °F (-15 °C) to 140 °F (60 °C)
- Design for retrofitable PT100 sensor
- Non-contaminating FES 93 filled design

### OPTIONS

- Other voltages
- YΔ - start (pos. of cables 90°)
- Motors in complete 316 SS and 904 L
- PT 100 temperature sensor (sold separately)
- Lead in different lengths up to 165 ft. (50 m)

### TECHNICAL SPECIFICATIONS

- 10" three-phase motors, 2-pole, 3600 RPM
- 130-185 kW / 175-250 hp
- 10" flange
- IP 68 protection
- 10 maximum starts per hour
- Vertical and horizontal installation (excluding 185 kW / 250 hp motors)
- Motor Lead in 20 ft. (6 m) length
- 380-415 V/50 Hz, 460 V/60 Hz, and 575 V/60 Hz standard voltages
- Voltage tolerance (50 Hz): -10% / +6%  $U_N$  [380-415 V = (380-10%) – (415+6%)]
- Voltage tolerance (60 Hz): ±10%  $U_N$
- PE2/PA winding insulation for max. ambient temp. of 113 °F (45 °C) at the same cooling conditions as standard



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## TECHNICAL DATA

Stator and Rotor (50/60 Hz)							
P <sub>N</sub> (kW/HP)	Stator (incl. winding and 6 m motor lead)						Rotor
	U <sub>N</sub> / f		304/316	904 L	304/316	904 L	
	V	Hz	DOL PE2/PA	DOL PE2/PA	YΔ PE2/PA	YΔ PE2/PA	
130/175	460/380	60/50	326314931	326314921	326314981	326314971	176 379 803K
	575	60	326317931	326317921	326317981	326317971	
150/200	460/380	60/50	326325931	326325921	326325981	326325971	176 379 804K
	575	60	326327931	326327921	326327981	326327971	
185/250	460/380	60/50	326448931	326448921	326448981	326448971	176 379 805K
	575	60	327534931	327534921	327534981	327534971	

PE2/PA Insulation Standard Windings (575 V / 60 Hz)									
P <sub>N</sub> (kW/HP)	Model No. Winding Kits	Turns Per Coil	Wire Dia. (mm)	Isolation Type	Group Connection	Total Wire Length (m)	Resistance Coil (Ω)	Resistance YΔ (U1-U2) (Ω)	Resistance DOL (U1-V1) (Ω)
130/175	326317999	9+10+9+10	1.8/2.8 DR.II	PE2/PA	Parallel	1067	0.2987	0.1494	0.0996
150/200	326327999	8+8+8+8	2.7/4.1			495	0.2454	0.1227	0.0818
185/250	327534999	6+7+6+7	2.1/3.3 2DR.II			904	0.1834	0.0917	0.0611

PE2/PA Insulation Standard Windings (380-415 V/50 Hz / 460 V/60 Hz)									
P <sub>N</sub> (kW/HP)	Model No. Winding Kits	Turns Per Coil	Wire Dia. (mm)	Isolation Type	Group Connection	Total Wire Length (m)	Resistance Coil (Ω)	Resistance YΔ (U1-U2) (Ω)	Resistance DOL (U1-V1) (Ω)
130/175	326314999	7+8+7+8	2.0/3.1 2DR.II	PE2/PA	Parallel	850	0.1910	0.0955	0.0636
150/200	326325999	6+7+6+7	2.1/3.3 2DR.II			810	0.1647	0.0823	0.0549
185/250	326448999	5+5+6+5	2.3/3.5 2DR.II			735	0.1240	0.0620	0.0413

Insulation resistant (20 °C / 500 VDC)							
Motor Condition	Resistance (MΩ)						
New Motor w/o Drop Cable	400 >						
Used Motor w/o Drop Cable	20 >						
New Motor w/ Drop Cable	4 >						
Used Motor w/ Drop Cable	1						

## MOTOR DESIGN

P <sub>N</sub> (kW/HP)	Motor Lengths (in/mm)	Motor Weights (lb/kg)		Motor Shipping Size (in/mm)		
		Motor	Incl. Pack	B	H	L
130/175	65.3/1659	798/362	908/412	13.4/341	271/562	90.4/2296
150/200	69.6/1769	910/413	1021/463			
185/250	75.5/1919	990/449	1100/499			

