

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:																	
Product line	: General NEMA Premium Efficiency Three-Phase	Product code :	10016389															
Frame	: 213/5T	Locked rotor time	: 21s (cold) 12s (hot)															
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K															
Poles	: 4	Duty cycle	: Cont.(S1)															
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C															
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.															
Rated current	: 18.1/9.03 A	Protection degree	: IP21															
L. R. Amperes	: 135/67.7 A	Cooling method	: IC01 - ODP															
LRC	: 7.5x(Code J)	Mounting	: F-2															
No load current	: 7.60/3.80 A	Rotation ¹	: Both (CW and CCW)															
Rated speed	: 1765 rpm	Noise level ²	: 58.0 dB(A)															
Slip	: 1.94 %	Starting method	: Direct On Line															
Rated torque	: 22.3 ft.lb	Approx. weight ³	: 103 lb															
Locked rotor torque	: 200 %																	
Breakdown torque	: 270 %																	
Insulation class	: F																	
Service factor	: 1.15																	
Moment of inertia (J)	: 0.9198 sq.ft.lb																	
Design	: B																	
Output	25%	50%	75%	100%	Foundation loads													
Efficiency (%)	88.1	83.1	89.0	84.7	90.2	87.0	91.0	88.6	88.6	Max. traction	: 435 lb							
	81.9	80.8	83.7	82.8	86.8	86.6	88.6	88.6	88.6									
	87.1	86.0	86.5	86.5	87.5	87.5	86.5	87.7	85.4									
Power Factor	0.43	0.37	0.68	0.57	0.79	0.71	0.84	0.80	0.33	0.31	0.53	0.50	0.67	0.63	0.76	0.73	Max. compression	: 538 lb
	0.46	0.42	0.68	0.64	0.80	0.76	0.86	0.83	0.38	0.60	0.73	0.81						
Bearing type	:	<u>Drive end</u>			<u>Non drive end</u>													
Sealing	:	6208 ZZ			6206 ZZ													
Lubrication interval	:	Without Bearing Seal			Without Bearing Seal													
Lubricant amount	:	-			-													
Lubricant type	:	-			-													
Mobil Polyrex EM																		
Notes:																		
This revision replaces and cancel the previous one, which must be eliminated.						These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.												
(1) Looking the motor from the shaft end.																		
(2) Measured at 1m and with tolerance of +3dB(A).																		
(3) Approximate weight subject to changes after manufacturing process.																		
(4) At 100% of full load.																		

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	25/03/2024		Page 1 / 1	Revision