

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12445607	
Frame	: 143/5T	Locked rotor time	: 32s (cold) 18s (hot)	
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K	
Poles	: 4	Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 1.18 A	Protection degree	: IP55	
L. R. Amperes	: 10.1 A	Cooling method	: IC411 - TEFC	
LRC	: 8.6x(Code M)	Mounting	: F-1	
No load current	: 0.752 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1760 rpm	Noise level ²	: 51.0 dB(A)	
Slip	: 2.22 %	Starting method	: Direct On Line	
Rated torque	: 2.98 ft.lb	Approx. weight ³	: 44.9 lb	
Locked rotor torque	: 290 %			
Breakdown torque	: 350 %			
Insulation class	: F			
Service factor	: 1.25			
Moment of inertia (J)	: 0.1172 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	78.4	80.0	84.0	85.5
Power Factor	0.31	0.55	0.68	0.75
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)
15.9	12.8	12.5	10.1	7.0
		Drive end	Non drive end	
Bearing type	: 6205 ZZ	6204 ZZ		
Sealing	: V'Ring	V'Ring		
Lubrication interval	: -	-		
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
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