

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 High Efficiency Three-Phase

Product code : 12603174

Frame	: 213/5T	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: Cont.(S1)
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 4.07 A	Protection degree	: IP55
L. R. Amperes	: 24.0 A	Cooling method	: IC411 - TEFC
LRC	: 5.9x(Code J)	Mounting	: F-1
No load current	: 2.05 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 715 rpm	Noise level ²	: 48.0 dB(A)
Slip	: 4.67 %	Starting method	: Direct On Line
Rated torque	: 14.7 ft.lb	Approx. weight ³	: 135 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 190 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.19 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	75.5 78.5	78.5 81.5	80.0 82.5	Max. traction	: 130 lb
Power Factor	0.50 0.47	0.62 0.53	0.70 0.66	Max. compression	: 265 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	23.6	20.0
	P2 (0,5;1,0)	20.3	17.3
	P3 (0,25;1,0)	21.0	17.8
	P4 (0,9;0,5)	13.5	11.5
	P5 (0,5;0,5)	10.1	8.6
	P6 (0,5;0,25)	8.0	6.7
	P7 (0,25;0,25)	6.3	5.3

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6308 ZZ	6207 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.

- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 1		
Checked by				
Date	28/03/2024			