

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE2 Three-Phase

Product code : 13025517

Frame	: 200L	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 32.7 A	Protection degree	: IP55
L. R. Amperes	: 160 A	Cooling method	: IC411 - TEFC
LRC	: 4.9	Mounting	: B3L(E)
No load current	: 14.6 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 725 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 145 ft.lb	Approx. weight ³	: 536 lb
Locked rotor torque	: 170 %		
Breakdown torque	: 180 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 10.0 sq.ft.lb		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.5 89.4	90.4 90.4	89.4 90.2	Max. traction	: 783 lb
	90.2	91.0	91.0		
Power Factor	0.62 0.55	0.73 0.67	0.78 0.74	Max. compression	: 1320 lb
	0.55	0.68	0.74		

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

Losses (%)	P1 (0,9;1,0)	11.4	10.5	9.5
	P2 (0,5;1,0)	9.6	8.8	8.0
	P3 (0,25;1,0)	9.1	8.4	7.6
	P4 (0,9;0,5)	6.1	5.6	5.1
	P5 (0,5;0,5)	4.4	4.0	3.6
	P6 (0,5;0,25)	3.2	2.9	2.7
	P7 (0,25;0,25)	2.3	2.1	2.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 g
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	26/03/2024			