

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE2 Three-Phase

Product code :

13025681

Catalog # :

30012EP3Y355M/L-W22

Frame	: 355M/L	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 400 HP (300 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 597 A	Protection degree	: IP55
L. R. Amperes	: 3701 A	Cooling method	: IC411 - TEFC
LRC	: 6.2	Mounting	: B3L(E)
No load current	: 240 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 990 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 1.00 %	Starting method	: Direct On Line
Rated torque	: 2120 ft.lb	Approx. weight ³	: 4662 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 340 sq.ft.lb		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.7 95.2	95.7 95.6	95.5 95.6	Max. traction	: 6486 lb
	95.0	95.4	95.4		
Power Factor	0.65 0.60	0.75 0.70	0.80 0.77	Max. compression	: 11148 lb
	0.57	0.70	0.77		

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

Losses (%)	P1 (0,9;1,0)	5.5	5.3	5.6
	P2 (0,5;1,0)	3.7	3.7	3.8
	P3 (0,25;1,0)	2.6	2.6	2.7
	P4 (0,9;0,5)	4.0	3.9	4.1
	P5 (0,5;0,5)	2.5	2.4	2.5
	P6 (0,5;0,25)	2.2	2.1	2.2
	P7 (0,25;0,25)	1.2	1.2	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	11000 h	13000 h
Lubricant amount	:	60 g	45 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 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	