

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE4 Three-Phase

Product code : 17302329
Catalog # : 18512EG3Y355M/L-W22

Frame	: 355M/L	Locked rotor time	: 90s (cold) 50s (hot)
Output	: 250 HP (185 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	: 360 A	Protection degree	: IP55
L. R. Amperes	: 1908 A	Cooling method	: IC411 - TEFC
LRC	: 5.3	Mounting	: B3L(E)
No load current	: 145 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 991 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 0.90 %	Starting method	: Direct On Line
Rated torque	: 1320 ft.lb	Approx. weight ³	: 3737 lb
Locked rotor torque	: 170 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 280 sq.ft.lb		
Design	: NE		

Output	25%	50%	75%	100%	Foundation loads				
Efficiency (%)	0.000	95.1	94.8	95.8	95.8	96.3	Max. traction : 3848 lb		
	0.000	94.5	94.3	95.5	95.5	96.3			
	0.000								
	0.000								
Power Factor	0.00	0.00	0.68	0.64	0.77	0.75	0.81	0.80	Max. compression : 7585 lb
	0.00	0.00	0.61	0.62	0.72	0.73	0.78	0.78	

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

Losses (%)	P1 (0,9;1,0)	3.7	3.7	3.7	4.2
	P2 (0,5;1,0)	2.6	2.6	2.6	3.0
	P3 (0,25;1,0)	2.0	2.0	2.0	2.3
	P4 (0,9;0,5)	2.4	2.4	2.4	2.7
	P5 (0,5;0,5)	1.5	1.5	1.5	1.7
	P6 (0,5;0,25)	1.2	1.2	1.2	1.4
	P7 (0,25;0,25)	0.7	0.7	0.7	0.8

		<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				
Checked by				
Date	26/03/2024			
			Page	Revision
			1 / 1	