

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE4 Three-Phase

Product code : 17300245
Catalog # : 11036EG3Y315S/M-W22

Frame	: 315S/M	Locked rotor time	: 90s (cold) 50s (hot)
Output	: 150 HP (110 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 198 A	Protection degree	: IP55
L. R. Amperes	: 1445 A	Cooling method	: IC411 - TEFC
LRC	: 7.3	Mounting	: B3L(E)
No load current	: 55.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2973 rpm	Noise level ²	: 77.0 dB(A)
Slip	: 0.90 %	Starting method	: Direct On Line
Rated torque	: 265 ft.lb	Approx. weight ³	: 2282 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 55.6 sq.ft.lb		
Design	: NE		

Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	0.000	94.0	94.0	95.5	95.5	96.0	Max. traction : 602 lb
	0.000	94.0	94.5	95.5	95.4	96.0	
	0.000						
	0.000						
Power Factor	0.00	0.00	0.80	0.76	0.86	0.84	Max. compression : 2884 lb
	0.00	0.00	0.73	0.74	0.82	0.83	

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

Losses (%)	P1 (0,9;1,0)	4.0	4.0	4.0	4.6
	P2 (0,5;1,0)	2.8	2.8	2.8	3.3
	P3 (0,25;1,0)	2.4	2.4	2.4	2.8
	P4 (0,9;0,5)	2.4	2.4	2.4	2.7
	P5 (0,5;0,5)	1.3	1.3	1.3	1.5
	P6 (0,5;0,25)	0.9	0.9	0.9	1.1
	P7 (0,25;0,25)	0.5	0.5	0.5	0.6

		Drive end	Non drive end
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 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	