

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE4 Three-Phase

Product code : 17300989
Catalog # : 15012EG3Y315L-W22

Frame	: 315L	Locked rotor time	: 72s (cold) 40s (hot)
Output	: 200 HP (150 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	: 282 A	Protection degree	: IP55
L. R. Amperes	: 1918 A	Cooling method	: IC411 - TEFC
LRC	: 6.8	Mounting	: B3L(E)
No load current	: 109 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 990 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.00 %	Starting method	: Direct On Line
Rated torque	: 1060 ft.lb	Approx. weight ³	: 3131 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 245 sq.ft.lb		
Design	: NE		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	0.000	95.5	95.3	95.8	95.9	96.1	96.1	Max. traction	: 4988 lb	
	0.000	95.2	95.2	95.9	96.0	96.1	96.2			
	0.000									
	0.000									
Power Factor	0.00	0.00	0.70	0.67	0.80	0.78	0.84	0.82	Max. compression	: 8119 lb
	0.00	0.00	0.63	0.64	0.75	0.75	0.81	0.82		

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	4.1
	P2 (0,5;1,0)	3.2	3.2	3.2	3.2
	P3 (0,25;1,0)	2.8	2.8	2.8	2.9
	P4 (0,9;0,5)	2.1	2.1	2.1	2.2
	P5 (0,5;0,5)	1.4	1.4	1.4	1.5
	P6 (0,5;0,25)	1.0	1.0	1.0	1.0
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	13000 h	16000 h
Lubricant amount	:	45 g	34 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	