

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE2 Three-Phase

Product code : 14427691
Catalog # : E15036EP3Y315SMF3-W2

Frame	: 315S/M	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 150 kW (200 HP)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.
Rated current	: 270/155 A	Protection degree	: IP55
L. R. Amperes	: 1836/1057 A	Cooling method	: IC411 - TEFC
LRC	: 6.8	Mounting	: B3T
No load current	: 70.0/40.3 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2980 rpm	Noise level ²	: 77.0 dB(A)
Slip	: 0.67 %	Starting method	: Direct On Line
Rated torque	: 355 ft.lb	Approx. weight ³	: 2536 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 46.4 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.1	94.1	94.2	94.2	94.8	94.8	94.8	94.8	Max. traction	: 1070 lb
	93.4	92.9	93.8	93.5	94.5	94.5	94.8	95.0		
Power Factor	0.57	0.53	0.80	0.78	0.87	0.85	0.89	0.88	Max. compression	: 3606 lb
	0.49	0.52	0.74	0.76	0.83	0.84	0.87	0.87		

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

Losses (%)	P1 (0,9;1,0)	5.2	5.2	5.2	5.0
	P2 (0,5;1,0)	3.8	3.8	3.8	3.7
	P3 (0,25;1,0)	3.3	3.3	3.3	3.2
	P4 (0,9;0,5)	3.0	3.0	3.0	2.8
	P5 (0,5;0,5)	1.6	1.6	1.6	1.6
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

		Drive end	Non drive end
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	5000 h	5000 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 IEC 60034-1.

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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