

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE2 Three-Phase

Product code : 11251532

Frame	: 250S/M	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 30 kW (40 HP)	Temperature rise	: 80 K
Poles	: 8	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	: 60.4/34.8 A	Protection degree	: IP55
L. R. Amperes	: 411/236 A	Cooling method	: IC411 - TEFC
LRC	: 6.8	Mounting	: B3T
No load current	: 23.0/13.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 728 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.93 %	Starting method	: Direct On Line
Rated torque	: 290 ft.lb	Approx. weight ³	: 981 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 25.2 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	89.2	89.4	89.9	90.1	90.4	90.6	90.9	91.1	Max. traction	: 1948 lb
	89.9	89.4	90.4	90.0	90.9	90.5	91.2	91.0		
Power Factor	0.45	0.41	0.70	0.66	0.79	0.77	0.83	0.82	Max. compression	: 2928 lb
	0.37	0.39	0.62	0.64	0.74	0.75	0.80	0.81		

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

Losses (%)	P1 (0,9;1,0)	9.8	9.6	9.4	9.7
	P2 (0,5;1,0)	8.7	8.5	8.4	8.6
	P3 (0,25;1,0)	8.2	8.0	7.9	8.1
	P4 (0,9;0,5)	3.9	3.8	3.8	3.8
	P5 (0,5;0,5)	2.9	2.9	2.8	2.9
	P6 (0,5;0,25)	1.7	1.6	1.6	1.6
	P7 (0,25;0,25)	1.2	1.2	1.2	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	20000 h	20000 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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