

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE2 Three-Phase

Product code : 14413774
Catalog # : E02212EP3Y200LF3-W22

Frame	: 200L	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 22 kW (30 HP)	Temperature rise	: 80 K
Poles	: 6	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	: 44.3/25.5 A	Protection degree	: IP55
L. R. Amperes	: 235/135 A	Cooling method	: IC411 - TEFC
LRC	: 5.3	Mounting	: B3T
No load current	: 19.0/10.9 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 975 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 159 ft.lb	Approx. weight ³	: 496 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 9.58 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	90.3	89.8	90.5	90.0	90.9	90.9	90.9	90.9	Max. traction	: 1306 lb
	88.3	89.4	89.0	89.7	90.4	91.7	90.9	91.7		
Power Factor	0.42	0.37	0.68	0.63	0.78	0.74	0.83	0.80	Max. compression	: 1802 lb
	0.34	0.35	0.59	0.60	0.71	0.73	0.78	0.79		

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

Losses (%)	P1 (0,9;1,0)	9.7	9.7	9.7	8.8
	P2 (0,5;1,0)	8.2	8.2	8.2	7.4
	P3 (0,25;1,0)	7.5	7.5	7.5	6.8
	P4 (0,9;0,5)	4.8	4.8	4.8	4.4
	P5 (0,5;0,5)	3.3	3.3	3.3	3.0
	P6 (0,5;0,25)	2.3	2.3	2.3	2.1
	P7 (0,25;0,25)	1.6	1.6	1.6	1.4

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 ZZ C3	6212 ZZ C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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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