

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE1 Three-Phase Product code : 11320872

Frame	: 200L	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 22 kW (30 HP)	Temperature rise	: 105 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	: 45.1/26.0 A	Protection degree	: IP55
L. R. Amperes	: 239/138 A	Cooling method	: IC411 - TEFC
LRC	: 5.3	Mounting	: B3T
No load current	: 17.8/10.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 970 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 3.00 %	Starting method	: Direct On Line
Rated torque	: 217 Nm	Approx. weight ³	: 218 kg
Locked rotor torque	: 180 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.3692 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.3	90.2	89.2	Max. traction	: 3405 N
Power Factor	0.68	0.78	0.83	Max. compression	: 5542 N

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
9.6	7.0	5.9	6.0	3.8	3.0	1.9

		<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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Thermal protection

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

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