

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE4 Three-Phase Product code : 12774277

Frame	: 200L	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 30 kW (40 HP)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 400/690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 57.0/33.0 A	Protection degree	: IP55
L. R. Amperes	: 490/284 A	Cooling method	: IC411 - TEFC
LRC	: 8.6	Mounting	: B3T
No load current	: 28.0/16.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1483 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 1.13 %	Starting method	: Direct On Line
Rated torque	: 19.7 kgfm	Approx. weight ³	: 271 kg
Locked rotor torque	: 320 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.3979 kgm ²		
Design	: NE		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.5	94.5	94.9	Max. traction	: 647 kgf
Power Factor	0.60	0.73	0.80	Max. compression	: 917 kgf

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)
5.2	4.2	3.9	3.0	2.0	1.5	1.1

	Drive end	Non drive end
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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