

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W20 Three-Phase Product code : 17864469

Frame	: 160M	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 7.5 kW (10 HP)	Temperature rise	: 80 K
Frequency	: 50 Hz	Duty cycle	: S1
Rated voltage	: 400/690 V	Ambient temperature	: -20°C to +40°C
Poles	: 6	Altitude	: 1000 m.a.s.l.
Rated current	: 15.2/8.81 A	Protection degree	: IP55
LRC	: 6.6	Cooling method	: IC411 - TEFC
Rated speed	: 975 rpm	Mounting	: B3T
Rated torque	: 73.5 Nm	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 56.0 dB(A)
Service factor	: 1.00	Starting method	: Direct On Line
Moment of inertia (J)	: 0.1614 kgm ²	Approx. weight ³	: 107 kg
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.0	88.5	89.1	Max. traction	: 2714 N
Power Factor	0.61	0.73	0.80	Max. compression	: 3767 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)
11.9	10.6	10.5	6.0	4.4	3.1	2.3

	Drive end	Non drive end
Bearing type	: 6209 ZZ C3	: 6209 ZZ C3
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: 00088	

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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