

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W20 Three-Phase Product code : 17685556

Frame	: 100L	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 1.1 kW (1.5 HP)	Temperature rise	: 80 K
Frequency	: 50 Hz	Duty cycle	: S1
Rated voltage	: 230/400 V	Ambient temperature	: -20°C to +40°C
Poles	: 6	Altitude	: 1000 m.a.s.l.
Rated current	: 4.81/2.76 A	Protection degree	: IP55
LRC	: 5.0	Cooling method	: IC411 - TEFC
Rated speed	: 960 rpm	Mounting	: B3T
Rated torque	: 10.9 Nm	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 44.0 dB(A)
Service factor	: 1.00	Starting method	: Direct On Line
Moment of inertia (J)	: 0.0110 kgm ²	Approx. weight ³	: 25.9 kg
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	78.0	80.0	81.0	Max. traction	: 502 N
Power Factor	0.49	0.62	0.71	Max. compression	: 756 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)
22.5	20.3	20.6	12.2	9.4	7.3	5.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 ZZ
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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