

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W20 Three-Phase			Product code : 17685568			
Frame	: 112M		Locked rotor time	: 46s (cold) 26s (hot)		
Output	: 2.2 kW (3 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	: 5.22/3.02 A		Protection degree	: IP55		
LRC	: 6.0		Cooling method	: IC411 - TEFC		
Rated speed	: 960 rpm		Mounting	: B3T		
Rated torque	: 21.9 Nm		Rotation ¹	: Both (CW and CCW)		
Insulation class	: F		Noise level ²	: 49.0 dB(A)		
Service factor	: 1.00		Starting method	: Direct On Line		
Moment of inertia (J)	: 0.0257 kgm ²		Approx. weight ³	: 39.8 kg		
Design	: N					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	83.0	84.5	84.5	Max. traction	: 1003 N	
Power Factor	0.53	0.64	0.72	Max. compression	: 1393 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)
17.7	15.8	15.4	9.3	7.1	5.3	4.1
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6307 ZZ		6206 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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