

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W20 Three-Phase			Product code : 17700881			
Frame	: 90S/L		Locked rotor time	: 48s (cold) 27s (hot)		
Output	: 0.75 kW (1 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	: 3.35/1.93 A		Protection degree	: IP55		
LRC	: 5.0		Cooling method	: IC411 - TEFC		
Rated speed	: 944 rpm		Mounting	: B3T		
Rated torque	: 7.59 Nm		Rotation <sup>1</sup>	: Both (CW and CCW)		
Insulation class	: F		Noise level <sup>2</sup>	: 45.0 dB(A)		
Service factor	: 1.00		Starting method	: Direct On Line		
Moment of inertia (J)	: 0.0050 kgm <sup>2</sup>		Approx. weight <sup>3</sup>	: 18.7 kg		
Design	: N					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	76.4	78.9	78.9	Max. traction	: 493 N	
Power Factor	0.49	0.62	0.71	Max. compression	: 677 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)
25.7	23.6	24.6	14.6	11.2	8.9	6.9
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6205 ZZ		6204 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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