

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : W22 IE3 Three-Phase	Product code : 12881894			
Frame : 180M Insulation class : F Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : N	Cooling method : IC411 - TEFC Mounting : B3T Rotation <sup>1</sup> : Both (CW and CCW) Starting method : Direct On Line Approx. weight <sup>2</sup> : 183 kg Moment of inertia (J) : 0.0968 kgm <sup>2</sup>			
Output [kW]	22			
Poles	2			
Frequency [Hz]	50			
Rated voltage [V]	220/380			
Rated current [A]	71.5/41.4			
L. R. Amperes [A]	594/344			
LRC [A]	8.3			
No load current [A]	24.2/14.0			
Rated speed [RPM]	2955			
Slip [%]	1.50			
Rated torque [Nm]	71.1			
Locked rotor torque [%]	290			
Breakdown torque [%]	290			
Service factor	1.00			
Temperature rise	80 K			
Locked rotor time	16s (cold) 9s (hot)			
Noise level <sup>2</sup>	67.0 dB(A)			
Efficiency (%)	25%	0.000		
	50%	92.2		
	75%	92.7		
	100%	92.7		
Power Factor	25%	0.00		
	50%	0.74		
	75%	0.83		
	100%	0.87		
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)	7.6		
	P2 (0,5;1,0)	6.3		
	P3 (0,25;1,0)	5.7		
	P4 (0,9;0,5)	3.7		
	P5 (0,5;0,5)	2.4		
	P6 (0,5;0,25)	1.5		
	P7 (0,25;0,25)	1.0		
Bearing type : Drive end 6311 ZZ C3 Non drive end 6211 ZZ C3 Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 2230 N Max. compression : 4025 N			
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.				
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Notes

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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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