

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line : W22 IE3 Three-Phase	Product code : 12882070
Frame : 112M 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 ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 41.1 kg Moment of inertia (J) : 0.0081 kgm ²
Output [kW]	4
Poles	2
Frequency [Hz]	50
Rated voltage [V]	220/380
Rated current [A]	13.8/8.01
L. R. Amperes [A]	102/59.3
LRC [A]	7.4
No load current [A]	5.87/3.40
Rated speed [RPM]	2890
Slip [%]	3.67
Rated torque [Nm]	13.2
Locked rotor torque [%]	229
Breakdown torque [%]	310
Service factor	1.00
Temperature rise	80 K
Locked rotor time	19s (cold) 11s (hot)
Noise level ²	62.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Losses at normative operating points (speed;torque), in percentage of rated output power	
Losses (%)	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)
Bearing type : Drive end 6207 ZZ Non drive end 6206 ZZ Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 780 N Max. compression : 1182 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.	
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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