

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : W22 IE3 Three-Phase	Product code : 13367532			
Frame : 225S/M 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> : 396 kg Moment of inertia (J) : 0.2861 kgm <sup>2</sup>			
Output [kW]	45			
Poles	2			
Frequency [Hz]	50			
Rated voltage [V]	380/660			
Rated current [A]	83.6/48.1			
L. R. Amperes [A]	644/371			
LRC [A]	7.7			
No load current [A]	27.0/15.5			
Rated speed [RPM]	2965			
Slip [%]	1.17			
Rated torque [Nm]	145			
Locked rotor torque [%]	260			
Breakdown torque [%]	320			
Service factor	1.00			
Temperature rise	80 K			
Locked rotor time	14s (cold) 8s (hot)			
Noise level <sup>2</sup>	74.0 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 6314 C3 Non drive end 6314 C3 Sealing : WSeal WSeal Lubrication interval : 5000 h 5000 h Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 3732 N Max. compression : 7618 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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