

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : W22 IE3 Three-Phase	Product code : 12862467			
Frame : 63 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> : 8.0 kg Moment of inertia (J) : 0.0006 kgm <sup>2</sup>			
Output [kW]	0.18	0.18	0.18	0.18
Poles	4	4	4	4
Frequency [Hz]	50	50	50	60
Rated voltage [V]	220/380	230/400	240/415	460
Rated current [A]	0.902/0.522	0.897/0.516	0.885/0.512	0.468
L. R. Amperes [A]	3.79/2.19	4.13/2.37	4.43/2.56	2.57
LRC [A]	4.2	4.6	5.0	5.5
No load current [A]	0.605/0.350	0.661/0.380	0.692/0.400	0.360
Rated speed [RPM]	1365	1380	1395	1705
Slip [%]	9.00	8.00	7.00	5.28
Rated torque [Nm]	1.26	1.25	1.23	1.01
Locked rotor torque [%]	200	220	240	270
Breakdown torque [%]	200	220	240	280
Service factor	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	72s (cold) 40s (hot)
Noise level <sup>2</sup>	44.0 dB(A)	44.0 dB(A)	44.0 dB(A)	48.0 dB(A)
Efficiency (%)	25%	0.000	0.000	0.000
	50%	65.0	65.0	65.0
	75%	67.0	67.0	67.0
	100%	69.9	69.9	69.9
Power Factor	25%	0.00	0.00	0.00
	50%	0.57	0.53	0.50
	75%	0.67	0.63	0.61
	100%	0.75	0.72	0.70
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)	43.9	43.9	43.9
	P2 (0,5;1,0)	42.7	42.7	42.7
	P3 (0,25;1,0)	38.7	38.7	38.7
	P4 (0,9;0,5)	21.6	21.6	21.6
	P5 (0,5;0,5)	17.3	17.3	17.3
	P6 (0,5;0,25)	12.8	12.8	12.8
	P7 (0,25;0,25)	9.8	9.8	9.8
Bearing type : Drive end 6201 ZZ Non drive end 6201 ZZ Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 73 N Max. compression : 152 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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Notes

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