

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE3 Three-Phase	Product code : 12862537				
Frame : 200L 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 : B5T Rotation <sup>1</sup> : Both (CW and CCW) Starting method : Direct On Line Approx. weight <sup>2</sup> : 263 kg Moment of inertia (J) : 0.3202 kgm <sup>2</sup>				
Output [kW]	30	30	30	30	
Poles	4	4	4	4	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	380/660	400/690	415	460	
Rated current [A]	58.0/33.4	57.1/33.1	56.4	50.0	
L. R. Amperes [A]	423/244	428/248	440	415	
LRC [A]	7.3	7.5	7.8	8.3	
No load current [A]	24.5/14.1	27.0/15.7	30.0	25.5	
Rated speed [RPM]	1475	1480	1480	1785	
Slip [%]	1.67	1.33	1.33	0.83	
Rated torque [Nm]	194	194	193	161	
Locked rotor torque [%]	250	280	300	340	
Breakdown torque [%]	280	310	340	350	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	19s (cold) 11s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)	23s (cold) 13s (hot)	
Noise level <sup>2</sup>	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	66.0 dB(A)	
Efficiency (%)	25%				
	50%	93.4	92.9	92.3	92.6
	75%	93.6	93.6	93.3	93.7
	100%	93.6	93.6	93.6	94.1
Power Factor	25%				
	50%	0.68	0.63	0.59	0.62
	75%	0.79	0.75	0.72	0.74
	100%	0.84	0.81	0.79	0.80
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	6.7	6.7	6.7	6.2
	P2 (0,5;1,0)	5.9	5.9	5.9	5.4
	P3 (0,25;1,0)	5.5	5.5	5.5	5.0
	P4 (0,9;0,5)	3.2	3.2	3.2	3.0
	P5 (0,5;0,5)	2.4	2.4	2.4	2.2
	P6 (0,5;0,25)	1.6	1.6	1.6	1.5
	P7 (0,25;0,25)	1.2	1.2	1.2	1.1
Bearing type : Drive end 6312 ZZ C3 Non drive end 6212 ZZ C3 Sealing : Oil Seal Lip Seal Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 5779 N Max. compression : 8360 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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### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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