

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE2 Three-Phase	Product code : 11681212				
Frame : 132M 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> : 81.7 kg Moment of inertia (J) : 0.0270 kgm <sup>2</sup>				
Output [kW]	11	11	11	11	
Poles	2	2	2	2	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	380/660	400/690	415	460	
Rated current [A]	21.2/12.2	20.6/11.9	20.3	18.0	
L. R. Amperes [A]	165/95.2	175/102	183	176	
LRC [A]	7.8	8.5	9.0	9.8	
No load current [A]	7.30/4.20	8.30/4.81	9.30	7.60	
Rated speed [RPM]	2925	2935	2940	3545	
Slip [%]	2.50	2.17	2.00	1.53	
Rated torque [Nm]	35.9	35.8	35.7	29.6	
Locked rotor torque [%]	250	300	320	330	
Breakdown torque [%]	300	340	380	400	
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)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	23s (cold) 13s (hot)	
Noise level <sup>2</sup>	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	72.0 dB(A)	
Efficiency (%)	25%				
	50%	89.4	89.3	88.7	
	75%	89.5	89.6	89.4	
	100%	89.6	89.6	89.8	
Power Factor	25%				
	50%	0.76	0.71	0.67	
	75%	0.85	0.81	0.78	
	100%	0.88	0.86	0.84	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	11.3	11.3	11.0	10.6
	P2 (0,5;1,0)	9.3	9.3	9.1	8.7
	P3 (0,25;1,0)	8.2	8.2	8.0	7.7
	P4 (0,9;0,5)	5.4	5.4	5.3	5.1
	P5 (0,5;0,5)	3.5	3.5	3.5	3.3
	P6 (0,5;0,25)	2.3	2.3	2.2	2.1
	P7 (0,25;0,25)	1.5	1.5	1.4	1.4
Bearing type	Drive end : 6308 ZZ	Non drive end : 6207 ZZ	Foundation loads		
Sealing	: V'Ring	: V'Ring	Max. traction	: 1795 N	
Lubrication interval	: -	: -	Max. compression	: 2596 N	
Lubricant amount	: -	: -			
Lubricant type	: Mobil Polyrex EM				
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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