

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE3 Three-Phase	Product code : 12867405				
Frame : 71 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> : 11.2 kg Moment of inertia (J) : 0.0009 kgm <sup>2</sup>				
Output [kW]	0.25	0.25	0.25	0.25	
Poles	4	4	4	4	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	1.21/0.698	1.19/0.682	1.19/0.686	0.642	
L. R. Amperes [A]	5.79/3.35	5.69/3.27	5.69/3.29	3.40	
LRC [A]	4.8	4.8	4.8	5.3	
No load current [A]	0.725/0.420	0.783/0.450	0.830/0.480	0.430	
Rated speed [RPM]	1400	1410	1420	1720	
Slip [%]	6.67	6.00	5.33	4.44	
Rated torque [Nm]	1.71	1.69	1.68	1.39	
Locked rotor torque [%]	210	240	250	270	
Breakdown torque [%]	200	240	260	290	
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)	54s (cold) 30s (hot)	
Noise level <sup>2</sup>	43.0 dB(A)	43.0 dB(A)	43.0 dB(A)	47.0 dB(A)	
Efficiency (%)	25%				
	50%	67.0	69.0	65.1	70.0
	75%	69.1	72.0	68.6	72.0
	100%	73.5	73.5	73.5	74.0
Power Factor	25%				
	50%	0.55	0.52	0.50	0.47
	75%	0.66	0.62	0.61	0.59
	100%	0.74	0.72	0.69	0.66
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	36.0	36.0	36.0	35.1
	P2 (0,5;1,0)	34.9	34.9	34.9	34.0
	P3 (0,25;1,0)	34.2	34.2	34.2	33.3
	P4 (0,9;0,5)	19.1	19.1	19.1	18.6
	P5 (0,5;0,5)	15.0	15.0	15.0	14.6
	P6 (0,5;0,25)	11.3	11.3	11.3	11.0
	P7 (0,25;0,25)	8.9	8.9	8.9	8.7
Bearing type	: Drive end : 6202 ZZ	: Non drive end : 6202 ZZ	Foundation loads		
Sealing	: V'Ring	: V'Ring	Max. traction	: 88 N	
Lubrication interval	: -	: -	Max. compression	: 198 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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### Thermal protection

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

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