

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE3 Three-Phase	Product code : 12862528				
Frame : L100L 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 ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 41.6 kg Moment of inertia (J) : 0.0120 kgm ²				
Output [kW]	3	3	3	3	
Poles	4	4	4	4	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	10.8/6.26	10.7/6.15	10.5/6.07	5.33	
L. R. Amperes [A]	84.3/48.8	83.4/48.0	87.1/50.4	51.2	
LRC [A]	7.8	7.8	8.3	9.6	
No load current [A]	5.18/3.00	5.74/3.30	6.23/3.60	3.00	
Rated speed [RPM]	1430	1440	1445	1740	
Slip [%]	4.67	4.00	3.67	3.33	
Rated torque [Nm]	20.0	19.9	19.8	16.5	
Locked rotor torque [%]	350	390	430	459	
Breakdown torque [%]	280	320	360	390	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)	54.0 dB(A)	
Efficiency (%)	25%				
	50%	87.7	87.0	86.3	84.0
	75%	88.0	88.0	87.7	86.5
	100%	87.7	88.0	88.1	89.5
Power Factor	25%				
	50%	0.65	0.60	0.56	0.59
	75%	0.77	0.73	0.70	0.71
	100%	0.83	0.80	0.78	0.79
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	13.6	13.2	13.1	11.4
	P2 (0,5;1,0)	12.3	11.9	11.8	10.3
	P3 (0,25;1,0)	12.0	11.6	11.5	10.0
	P4 (0,9;0,5)	5.9	5.7	5.7	4.9
	P5 (0,5;0,5)	4.4	4.3	4.3	3.7
	P6 (0,5;0,25)	2.7	2.7	2.6	2.3
	P7 (0,25;0,25)	2.1	2.0	2.0	1.7
Bearing type : Drive end 6206 ZZ Non drive end 6205 ZZ Sealing : Oil Seal Lip Seal Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 1402 N Max. compression : 1810 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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