

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE3 Three-Phase	Product code : 12894458				
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 : B3T Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 257 kg Moment of inertia (J) : 0.1703 kgm ²				
Output [kW]	30	30	30	30	
Poles	2	2	2	2	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	97.1/56.2	95.0/54.6	93.2/53.9	48.2	
L. R. Amperes [A]	699/405	741/426	774/447	424	
LRC [A]	7.2	7.8	8.3	8.8	
No load current [A]	29.4/17.0	33.0/19.0	34.6/20.0	18.0	
Rated speed [RPM]	2965	2970	2975	3575	
Slip [%]	1.17	1.00	0.83	0.69	
Rated torque [Nm]	96.7	96.5	96.4	80.2	
Locked rotor torque [%]	300	330	360	390	
Breakdown torque [%]	290	320	350	370	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	
Noise level ²	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	76.0 dB(A)	
Efficiency (%)	25%				
	50%	92.6	92.2	91.8	
	75%	93.2	93.2	93.0	
	100%	93.3	93.3	93.3	
Power Factor	25%				
	50%	0.75	0.69	0.64	
	75%	0.83	0.80	0.77	
	100%	0.87	0.85	0.83	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	6.9	6.9	6.9	7.2
	P2 (0,5;1,0)	5.4	5.4	5.4	5.7
	P3 (0,25;1,0)	4.7	4.7	4.7	5.0
	P4 (0,9;0,5)	3.6	3.6	3.6	3.7
	P5 (0,5;0,5)	2.2	2.2	2.2	2.3
	P6 (0,5;0,25)	1.4	1.4	1.4	1.5
	P7 (0,25;0,25)	0.9	0.9	0.9	0.9
Bearing type : Drive end 6312 ZZ C3 Non drive end 6212 ZZ C3 Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 2470 N Max. compression : 4992 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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Thermal protection

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

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