

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE3 Three-Phase	Product code : 12862519				
Frame : 63 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 : 8.0 kg Moment of inertia (J) : 0.0004 kgm ²				
Output [kW]	0.12	0.12	0.12	0.12	
Poles	4	4	4	4	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	0.656/0.380	0.654/0.376	0.645/0.373	0.351	
L. R. Amperes [A]	2.76/1.60	2.88/1.65	2.97/1.72	1.61	
LRC [A]	4.2	4.4	4.6	4.6	
No load current [A]	0.518/0.300	0.557/0.320	0.605/0.350	0.310	
Rated speed [RPM]	1415	1425	1430	1730	
Slip [%]	5.67	5.00	4.67	3.89	
Rated torque [Nm]	0.810	0.805	0.802	0.663	
Locked rotor torque [%]	200	229	250	270	
Breakdown torque [%]	220	250	280	310	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	104s (cold) 58s (hot)	93s (cold) 52s (hot)	86s (cold) 48s (hot)	84s (cold) 47s (hot)	
Noise level ²	44.0 dB(A)	44.0 dB(A)	44.0 dB(A)	48.0 dB(A)	
Efficiency (%)	25%				
	50%	58.6	57.0	55.6	57.5
	75%	64.0	63.0	63.0	64.0
	100%	64.8	64.8	64.8	66.0
Power Factor	25%				
	50%	0.54	0.52	0.50	0.48
	75%	0.65	0.62	0.60	0.57
	100%	0.74	0.71	0.69	0.65
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	52.6	52.6	52.6	49.9
	P2 (0,5;1,0)	47.1	47.1	47.1	44.7
	P3 (0,25;1,0)	46.1	46.1	46.1	43.7
	P4 (0,9;0,5)	35.3	35.3	35.3	33.5
	P5 (0,5;0,5)	25.7	25.7	25.7	24.4
	P6 (0,5;0,25)	22.4	22.4	22.4	21.3
	P7 (0,25;0,25)	16.1	16.1	16.1	15.3
Bearing type	: Drive end : 6201 ZZ	: Non drive end : 6201 ZZ	Foundation loads		
Sealing	: Oil Seal	: Lip Seal	Max. traction	: 43 N	
Lubrication interval	: -	: -	Max. compression	: 121 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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