

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE3 Three-Phase	Product code : 12862422				
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 : 7.6 kg Moment of inertia (J) : 0.0001 kgm ²				
Output [kW]	0.12	0.12	0.12	0.12	
Poles	2	2	2	2	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	220/380	230/400	240/415	460	
Rated current [A]	0.674/0.390	0.677/0.389	0.673/0.389	0.346	
L. R. Amperes [A]	3.64/2.11	3.65/2.10	3.63/2.10	2.32	
LRC [A]	5.4	5.4	5.4	6.7	
No load current [A]	0.535/0.310	0.574/0.330	0.588/0.340	0.300	
Rated speed [RPM]	2860	2875	2880	3480	
Slip [%]	4.67	4.17	4.00	3.33	
Rated torque [Nm]	0.401	0.399	0.398	0.329	
Locked rotor torque [%]	320	350	380	470	
Breakdown torque [%]	340	380	400	500	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	63s (cold) 35s (hot)	57s (cold) 32s (hot)	54s (cold) 30s (hot)	48s (cold) 27s (hot)	
Noise level ²	52.0 dB(A)	52.0 dB(A)	52.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%				
	50%	59.0	58.0	57.0	
	75%	61.5	60.8	60.8	
	100%	65.0	64.5	64.0	
Power Factor	25%				
	50%	0.53	0.50	0.49	
	75%	0.64	0.61	0.58	
	100%	0.72	0.69	0.67	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	49.1	50.2	51.3	51.3
	P2 (0,5;1,0)	35.8	36.6	37.4	37.4
	P3 (0,25;1,0)	34.8	35.6	36.4	36.4
	P4 (0,9;0,5)	37.9	38.8	39.6	39.6
	P5 (0,5;0,5)	23.9	24.4	24.9	24.9
	P6 (0,5;0,25)	21.5	22.0	22.5	22.5
	P7 (0,25;0,25)	14.8	15.1	15.4	15.4
Bearing type : Drive end 6201 ZZ Non drive end 6201 ZZ Sealing : Oil Seal Lip Seal Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 28 N Max. compression : 103 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.			
Rev.	Changes Summary	Performed	Checked	Date	
Performed by					
Checked by			Page	Revision	
Date	29/08/2023		1 / 2		

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Notes

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	29/08/2023		2 / 2	