

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE3 Three-Phase	Product code : 12862349				
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 : B3T Rotation <sup>1</sup> : Both (CW and CCW) Starting method : Direct On Line Approx. weight <sup>2</sup> : 7.5 kg Moment of inertia (J) : 0.0001 kgm <sup>2</sup>				
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 <sup>2</sup>	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	Foundation loads		
Sealing	: V'Ring	: V'Ring	Max. traction	: 29 N	
Lubrication interval	: -	: -	Max. compression	: 102 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.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/08/2023			1 / 2	

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Notes

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