

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 IE3 Three-Phase	Product code : 12876270				
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 : 265 kg Moment of inertia (J) : 0.3202 kgm ²				
Output [kW]	30	30	30	30	
Poles	4	4	4	4	
Frequency [Hz]	50	50	50	60	
Rated voltage [V]	380/660	400/690	415	460	
Rated current [A]	58.0/33.4	57.1/33.1	56.4	50.0	
L. R. Amperes [A]	423/244	428/248	440	415	
LRC [A]	7.3	7.5	7.8	8.3	
No load current [A]	24.5/14.1	27.0/15.7	29.3	25.6	
Rated speed [RPM]	1480	1480	1485	1785	
Slip [%]	1.33	1.33	1.00	0.83	
Rated torque [Nm]	194	194	193	161	
Locked rotor torque [%]	250	280	300	340	
Breakdown torque [%]	280	310	340	350	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	19s (cold) 11s (hot)	
Noise level ²	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	66.0 dB(A)	
Efficiency (%)	25%				
	50%	93.4	92.9	92.3	
	75%	93.6	93.6	93.3	
	100%	93.6	93.6	93.6	
Power Factor	25%				
	50%	0.68	0.63	0.59	
	75%	0.79	0.75	0.72	
	100%	0.84	0.81	0.79	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	6.6	6.6	6.6	6.1
	P2 (0,5;1,0)	5.8	5.8	5.8	5.3
	P3 (0,25;1,0)	5.4	5.4	5.4	5.0
	P4 (0,9;0,5)	3.1	3.1	3.1	2.9
	P5 (0,5;0,5)	2.3	2.3	2.3	2.1
	P6 (0,5;0,25)	1.5	1.5	1.5	1.4
	P7 (0,25;0,25)	1.1	1.1	1.1	1.0
Bearing type	Drive end : 6312 ZZ C3	Non drive end : 6212 ZZ C3	Foundation loads		
Sealing	: V'Ring	: V'Ring	Max. traction	: 5769 N	
Lubrication interval	: -	: -	Max. compression	: 8369 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	30/08/2023			1 / 3	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Notes

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	30/08/2023		2 / 3	

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Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 3		Revision
Checked by				
Date	30/08/2023			