DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



Customer :

Customer	:									
Product line	: W22	IE3 Three-	Phase			Product	code :	12881	1698	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 160M : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N		Cooling method Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J)		: B3T : Both : Dired : 140	: IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line : 140 kg : 0.0551 kgm²			
Output [kW]			15		15		1	5		15
Poles			2		2		2	2		2
Frequency [Hz]			50		50		5			60
Rated voltage [V]		22	0/380		230/400		240/	415		460
Rated current [A]		49.	2/28.5	4	18.2/27.7		47.9/	27.7		24.7
L. R. Amperes [A]		38	4/222		400/230		422/	244		222
LRC [A]	li		7.8		8.3		8.			9.0
No load current [A	N 1		3/10.0	-	19.1/11.0		20.8/			11.0
Rated speed [RPI			945		2950		20.0/			3560
Slip [%]	*'.]		1.83		1.67		1.9			1.11
	.1		1.63 18.7		48.6					40.3
Rated torque [Nm]			250				48.5			
Locked rotor torqu					280		300			340
Breakdown torque	₹[%]	320			360		390 1.00			430
Service factor			.00		1.00					1.00
Temperature rise		80 K			80 K		80 K 14s (cold) 8s (hot)			80 K
Locked rotor time		14s (cold) 8s (hot)			cold) 8s (h	not)			145	s (cold) 8s (hot)
Noise level ²		67.0	dB(A)	6	7.0 dB(A)		67.0	dB(A)		72.0 dB(A)
	25%									
Efficiency (0/)	50%	9	91.0		90.9		90	1.3		89.7
Efficiency (%)	75%	9	91.6		91.8		91	.6		91.5
	100%	ç	91.9		92.0		91	.9		91.7
	25%									
	50%	().72		0.67		0.0	63		0.66
Power Factor	75%		0.82		0.79		0.			0.78
	100%).87		0.75		0.8			0.83
								5		0.00
Losses at norma				n percer			ut power			
		,9;1,0)	8.6			3.5		8.6		8.8
	P2 (0	,5;1,0)	7.4		7	7.3		7.4		7.6
	P3 (0,	25;1,0)	7.1		7	7.0		7.1		7.3
Losses (%)		,9;0,5)	4.2		4	l.1		4.2		4.3
` '		,5;0,5)	2.8		2	2.8		2.8		2.9
		5;0,25)	1.8			1.8		1.8	\dashv	1.9
		25;0,25)	1.3		1.3		1.3			1.3
	1.7 (0,2			ive end	Foundati			1.0		1.0
Dooring tune		Drive e								
Bearing type		: 6309 ZZ C3 6209 ZZ C3 : V'Ring V'Ring			Max. traction Max. compression			: 2040 N		
Sealing		: V.K	ing v	Ring	Max. cor	npressio	n	: 3412	N	
Lubrication inter		: -		-						
Lubricant amour	nt	: -								
Lubricant type		: M	obil Polyrex E	ΞM						
This revision repl must be eliminate (1) Looking the n (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	ed. notor from the 1m and with t weight subjec ocess.	shaft end.	f +3dB(A).	nich		upply, sub				th sinusoidal lated in IEC
Rev.		Chang	jes Summary			Perfo	ormed	Checke	ed	Date
Performed by										
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Date	29/08/2023		1/3				
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		Subject to change without notice					

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Thermal protection

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

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