DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

			Phase	r	1100	luct cod		67532		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 225S/M : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: B3 : Bo : Dir : 39	: IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line : 396 kg : 0.2861 kgm ²			
Output [kW]			45		45		45		45	
Poles		2		2		_	2		2	
Frequency [Hz]		50		50			50		60	
Rated voltage [V]		380/660		400/690			415		460	
Rated current [A]		83.6/48.1		80.3/46.6		_	79.3		71.8	
. R. Amperes [A]		644/371		666/386			706		653	
_RC [A] No load current [A]		7.7		8.3 29.0/16.8			8.9 31.0		9.1 27.0	
Rated speed [RPN		27.0/15.5 2965		2	29.0/16.8		2973		3575	
Slip [%]	.1		.17		1.00		0.90	-	0.69	
Rated torque [Nm]		145		145			145		120	
_ocked rotor torque		260			290		320		320	
Breakdown torque		320			370		400		420	
Service factor		1.00			1.00		1.00		1.00	
Temperature rise		80 K			80 K		80 K		80 K	
_ocked rotor time		14s (cold) 8s (hot)			4s (cold) 8s (hot)		12s (cold) 7s (hot)		(cold) 9s (hot)	
Noise level ²	0=0/) dB(A)	74	4.0 dB(A)	_	74.0 dB(A)		79.0 dB(A)	
	25%		0.000		0.000		0.000	_	01 5	
Efficiency (%)	50% 75%)2.5)3.5		92.0		92.0 93.0		91.5 93.6	
,	100%				93.0 94.0		93.0	_	93.6	
	25%		94.0 0.00		0.00		0.00		33.0	
	50%		0.74		0.72		0.68		0.69	
Power Factor	75%	0.83		0.82			0.79		0.79	
-	100%		0.87		0.86		0.84		0.84	
Losses at normati	ve operatina	points (sp	eed;torque), ir	n percer	ntage of rated	output n	ower			
	P1 (0,				6.0		6.0		6.4	
	P2 (0,	5;1,0) 4.6			4.6		4.6		4.9	
	P3 (0,2	-	4.2		4.2		4.2		4.5	
Losses (%)	P4 (0,		3.3	3.3			3.3		3.6	
		,5;0,5) 2.0			2.0		2.0		2.1	
		5;0,25) 1.4			1.4		<u> </u>		1.5	
	P7 (0,2	5;0,25)	0.9		0.9		0.0			
Rearing type		<u>Drive e</u> · 6314		ive end	Foundation lo				0.9	
Bearing type Sealing Lubrication interv Lubricant amount Lubricant type		: 6314 : WS : 500 : 27	C3 631 eal W3 0 h 50	l4 C3 Seal 00 h 7 g	Foundation lo Max. traction Max. compre		: 373 : 761		0.9	
Sealing Lubrication interv Lubricant amount	t aces and can d. otor from the m and with to veight subjec ocess.	: 6314 : WS : 5000 : 27 : M cel the pre shaft end.	C3 631 eal W3 0 h 50 g 2 obil Polyrex E vious one, wh	14 C3 Seal 00 h 7 g :M	Max. traction Max. compre	verage v	: 373	8 N tests wit	h sinusoidal	
Sealing Lubrication interv Lubricant amount Lubricant type This revision repla must be eliminate (1) Looking the model (2) Measured at 1 (3) Approximate we manufacturing pro-	t aces and can d. otor from the m and with to veight subjec ocess.	: 6314 : WS : 5000 : 27 : M cel the pre shaft end. blerance of t to change	C3 631 eal W3 0 h 50 g 2 obil Polyrex E vious one, wh	14 C3 Seal 00 h 7 g :M	Max. traction Max. compre These are av power supply 60034-1.	verage v	: 373 : 761 alues based on t to the toleranc	8 N tests wit æs stipul	h sinusoidal	
Sealing Lubrication interv Lubricant amount Lubricant type This revision repla must be eliminate (1) Looking the ma (2) Measured at 1 (3) Approximate w manufacturing pro (4) At 100% of full Rev.	t aces and can d. otor from the m and with to veight subjec ocess.	: 6314 : WS : 5000 : 27 : M cel the pre shaft end. blerance of t to change	C3 631 eal W3 0 h 50 g 2 obil Polyrex E vious one, wh	14 C3 Seal 00 h 7 g :M	Max. traction Max. compre These are av power supply 60034-1.	rerage v v, subjec	: 373 : 761 alues based on t to the toleranc	8 N tests wit æs stipul	h sinusoidal ated in IEC	
Sealing Lubrication interv Lubricant amount Lubricant type This revision repla must be eliminate (1) Looking the ma (2) Measured at 1 (3) Approximate w manufacturing pro (4) At 100% of full	t aces and can d. otor from the m and with to veight subjec ocess.	: 6314 : WS : 5000 : 27 : M cel the pre shaft end. blerance of t to change	C3 631 eal W3 0 h 50 g 2 obil Polyrex E vious one, wh	14 C3 Seal 00 h 7 g :M	Max. traction Max. compre These are av power supply 60034-1.	rerage v v, subjec	: 373 : 761 alues based on t to the toleranc	8 N tests wit ses stipul	h sinusoidal ated in IEC	

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Notes

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

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ID	Application	Туре	Quantity	Sensing	Temperature
1	Winding	Thermistor - 2 wires	1 x Phase		55 °C
·					
					1
Rev.	Chan	ges Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	30/08/2023		1	3/3	1

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