DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Fromo	: W22	. 100			[luct code	. 10.44	1 7550	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 160L : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N			Cooling method: IC411 - TEFCMounting: B3TRotation1: Both (CW and CCW)Starting method: Direct On LineApprox. weight3: 150 kgMoment of inertia (J): 0.1534 kgm²				
Dutput [kW]		15			15 1		15	5 15	
Poles		4			4		4		4
requency [Hz]		50			50		50		60
Rated voltage [V]		220/380			230/400		240/415		460
Rated current [A]		50.3/29.1			49.1/28.3		48.4/28.0		25.0
. R. Amperes [A]		332/192			344/198		358/207	200	
RC [A]		6.6			7.0		7.4 24.2/14.0		8.0
No load current [A		20.7/12.0		2	22.6/13.0		24.2/14.0 1477		12.5 1780
Rated speed [RPN Slip [%]	4]	1470 2.00			1475 1.67		1.53		1.11
Rated torque [Nm]		97.5			97.2		97.0		80.5
ocked rotor torqu		97.5 240			270		300		320
Breakdown torque		240		<u> </u>	300		320		330
Service factor	1,1,1	1.00		<u> </u>	1.00		1.00		1.00
Temperature rise		80 K		<u> </u>	80 K		80 K	80 K	
ocked rotor time		19s (cold) 11s (hot)		19s (o	s (cold) 11s (hot)		cold) 10s (hot)		d) 12s (hot
loise level ²	25%	61.0) dB(A)	6	1.0 dB(A)	6	1.0 dB(A)	64.	0 dB(A)
\Box ff is is a set $\langle 0/\rangle$	50%	ç	92.1	92.0 92.5			91.4 92.3		92.0
Efficiency (%)	75%	ç	92.4						92.9
	100%	ę	92.1		92.3		92.1		93.0
	25%								
Power Factor	50%	0.70		0.66			0.62		0.63
	75% 100%	0.80 0.85			0.77 0.83		0.75 0.81		0.75 0.81
Losses at normat	ive operating	points (sp	eed;torque), i	n percer	ntage of rated of	output po	wer		
		,9;1,0) 8.5			8.2		8.5		7.4
		,5;1,0)	7.5		7.3		7.5		6.6
		25;1,0)	7.2		7.0		7.2		6.3
Losses (%)		,9;0,5)	3.9				3.9	3.4	
		0,5;0,5) 2.9			2.8		2.9		2.5
		5;0,25)	1.8		1.8		1.8		1.6
P7 (0,2 Bearing type		Drive end Non drive end : 6309 ZZ C3 6209 ZZ C3		1.31.4Foundation loadsMax. traction: 3446 NMax. traction: 1022 N			1.2		
Sealing Lubrication interv Lubricant amoun Lubricant type		: - : -	obil Polyrex E	Ring - - EM	Max. compre	5510[1	: 4922	IN	
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	d. otor from the m and with to veight subjec ocess.	cel the pre shaft end.	evious one, wł f +3dB(A).				lues based on te to the tolerance		
Rev.	Changes Summary			F	Performed Checke		ed	Date	
Performed by									

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Notes

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Rev.		Changes Summary	Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	
Date	29/08/2023			2/3		

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ID	Application	Quantity	Sensina	Temperature	
1	Winding	Type Thermistor - 2 wires	1 x Phase		55 °C
1	Winding		TXTHase		00 0
					γ
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Checked by				Page	Revision
Date	29/08/2023			3/3	

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