DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Customer

Гистор		IE3 Three-				oduct co		128681	-	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 100L : F : S1 : -20°C to +40°C : 1000 m.a.s.I. : IP55 : N			Cooling method: IC411 - TEFCMounting: B5TRotation1: Both (CW and CCWStarting method: Direct On LineApprox. weight3: 32.7 kgMoment of inertia (J): 0.0064 kgm²				W)	
Output [kW]		3		3		3	3 3			
Poles		2			2		2		2	
Frequency [Hz]		50			50		50		60	
Rated voltage [V]		220/380			230/400		240/415		460	
Rated current [A]		10.4/6.02			10.2/5.85		9.98/5.77		5.07	
R. Amperes [A]		78.0/45.1		Ł	81.4/46.8		84.8/49.0		47.2 9.3	
RC [A]	1	7.5 4.40/2.55		8.0 4.96/2.85			8.5 5.45/3.15		9.3	
Rated speed [RPN		4.40/2.55		2	4.96/2.85		5.45/3.15 2920		3530	
Slip [%]	'J	3.17			2915		2920		1.94	
Rated torque [Nm]		9.87			9.83		9.82		8.12	
ocked rotor torqu		220			240		260		290	
Breakdown torque		300			330		360		440	
Service factor		1.00			1.00		1.00		1.00	
Temperature rise		80 K			80 K		80 K		80 K	
ocked rotor time		18s (cold) 10s (hot)			s (cold) 9s (hot)		6s (cold) 9		18s (cold) 10s (ho	
Noise level ²	25%	67.0) dB(A)	6	7.0 dB(A)		67.0 dB	(A)	71.0 dE	B(A)
Efficiency (%)	50%	8	35.5	85.0			84.5		82.5	5
Efficiency (%)	75%	86.5		86.5			86.5		86.5	
	100%	8	37.1		87.1		87.2	87.2		5
	25%									
Power Factor	50%	0.71		0.67			0.64		0.66	
	75% 100%	0.82 0.87			0.79 0.85		0.76 0.83		0.77 0.84	
Losses at normati	ve operating	points (sp	eed;torque), i	n percer	ntage of rate	d output	power			
	P1 (0	,9;1,0)	14.9		14.9)	1	4.7	13	.0
		,5;1,0)		13.6		6	13.5		11.9	
	P3 (0,	25;1,0)	12.1		12.1		12.0		10.6	
Losses (%)		,9;0,5)	7.2		7.2		7.1		6.3	
		,5;0,5)		5.0			5.0		4.4	
		5;0,25)	3.3		3.3			3.3	2.	-
	P7 (0,2	25;0,25) <u>Drive (</u>	2.4 end Non dr	ive end	2.4 Foundation			2.4	2.	1
Bearing type Sealing		6206 ZZ 6205 ZZ Oil Seal Lip Seal		Max. traction Max. compression			: 732 N : 1053 N			
Lubrication interv		-		-						
Lubricant amount Lubricant type		:								
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	d. otor from the m and with t veight subjec ocess.	icel the pre shaft end.	evious one, wh						sts with sinus	
(4) At 100% of ful Rev.	Changes Summary				Performed Check		Checked		Date	
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Notes

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

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ID	Thermal protection Application Type Quantity Sensing						
1	Winding	Thermistor - 2 wires	1 x Phase	Sensing Temperature			
1	Winding		TXTHase		00 0		
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