DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line	roduct line : W22 IE3 Three-Phase				Pro	16. 120	12867355			
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 100L : 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)		: B : B : D : 3	: IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line : 31.2 kg : 0.0064 kgm²		
Output [kW]			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		81.4/46.8			84.8/49.0		47.2	
_RC [A]	_	7.5		8.0			8.5		9.3	
No load current [A		4.40/2.55		4.96/2.85			5.45/3.15		2.60	
Rated speed [RPN	/]	2905		2915			2920		3530	
Slip [%]			3.17		2.83		2.67		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		40- /	80 K		80 K	40	80 K	
Locked rotor time		18s (cold) 10s (hot) 67.0 dB(A)			16s (cold) 9s (hot)		s (cold) 9s (hot)	185	(cold) 10s (hot)	
	25%	07.0		0	7.0 dB(A)		67.0 dB(A)		71.0 dB(A)	
	50%	\$	85.5		85.0		84.5		82.5	
Efficiency (%)	75%		36.5		86.5		86.5		86.5	
	100%		37.1		87.1		87.2		88.5	
	25%						01.2			
	50%	(0.71		0.67		0.64		0.66	
Power Factor	75%	0.82			0.79		0.76		0.77	
	100%		0.87		0.85		0.83		0.84	
Lossos at normat				n noraci		d output -		1		
Losses at normat			eed;torque), 1	ii percel			14.7		13.0	
					14.9 13.6		14.7		13.0	
		25;1,0) 12.1			12.1		13.5 12.0 7.1		10.6	
Losses (%)	P3 (0,2 P4 (0,			7.2					6.3	
L00000 (70)		,9,0,5) ,5;0,5)	5.0	5.0			5.0		4.4	
		5;0,25)	3.3		3.3		3.3		2.9	
		25;0,25)	2.4		2.4		2.4		2.9	
	17 (0,2			ive and			۲.٦		2 .1	
Bearing type Sealing		Drive endNon drive end:6206 ZZ6205 ZZ:V'RingV'Ring		Foundation loads Max. traction		· 74	: 740 N			
				Ring	Max. comp			: 1046 N		
Lubrication interv	/al	: -	5	-		-				
Lubricant amoun	t	: -		-						
Lubricant type		: M	lobil Polyrex E	M						
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 to veight subjec	shaft end. olerance o	f +3dB(A).	nich			values based or of to the toleran			
(4) At 100% of full load. Rev. Changes Summary				Performed Chec		cked Date				
Rev.										
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Rev. 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	Sensina	Temperature		
1	Winding	Type Thermistor - 2 wires	Quantity 1 x Phase		55 °C
1	Winding		TXTHase		00 0
					γ
Rev.	Chan	ges Summary	Performed	Checked	Date
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Date	29/08/2023			3/3	

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