DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line	: W22	IE3 Three-	Phase		F	Product	code :	12862	550		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 250S/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)			: B5T : Both : Direc : 472	: IC411 - TEFC : B5T : Both (CW and CCW) : Direct On Line : 472 kg : 1.05 kgm ²		
Output [kW]			55		55		55			55	
Poles		4		4			4			4	
Frequency [Hz]		50		50			50		60		
Rated voltage [V]		380/660		400/690			415			460	
Rated current [A]		103/59.3		98.7/57.2			97.5		87.2		
. R. Amperes [A]		742/427		760/441			799		741		
_RC [A]		7.2		7.7			8.2			8.5	
No load current [A		36.0/20.7		39.0/22.6			42.0			37.0	
Rated speed [RPN	1]	1480			1482		148			1785	
Slip [%]		1.33			1.20		1.07			0.83	
Rated torque [Nm]		355			355		354		294		
ocked rotor torqu		240			270			300		310	
Breakdown torque	[%]	270			300		330		340		
Service factor		1.00			1.00		1.00		1.00		
Temperature rise		80 K		200 / 1	80 K		80 K			80 K	
Locked rotor time Noise level ²		28s (cold) 16s (hot) 64.0 dB(A)			(cold) 16s (hot) 64.0 dB(A)		27s (cold) 15s (hot) 64.0 dB(A)			ld) 19s (hot) .0 dB(A)	
	25%	04.0		0	uD(A)		04.0 0		00	.0 UD(A)	
	50%		94.5		94.3		94.0			94.1	
Efficiency (%)	75%		94.6		94.6		94.6			95.0	
	100%		94.6		94.6		94.6			95.4	
	25%										
	50%	(0.73		0.69		0.60			0.67	
Power Factor	75%	(0.82		0.80		0.78			0.78	
	100%	().86		0.85		0.83			0.83	
Losses at normati	ive operating	points (sp	eed:torque) i	n percer	ntage of rat	ed outp	utpower				
Loooo at normal		<u>,9;1,0)</u>	5.5		5.			5.5		4.6	
		,5;1,0) 4.6		4.6			4.6			3.9	
		25;1,0)	4.6	4.6			4.6			3.9	
Losses (%)		,9;0,5)	2.5	2.5 1.7 1.1			2.5			2.1	
		,5;0,5)	1.7					1.7	1.5		
		5;0,25)	1.1			1		1.1		0.9	
	P7 (0,2	25;0,25)	0.7		0.	7		0.7		0.6	
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		Drive 6 : 6314 : Oil S : 1400 : 27 : M	4 C3 6314 C3 Seal Oil Seal 00 h 14000 h		Foundation loads Max. traction Max. compression		: 7546 N : 12177 N				
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 subjectocess.	shaft end. olerance o	f +3dB(A).	hich				ased on te tolerances			
Rev.	Changes Summary				Performed Checke		d	Date			
Performed by					I_				I		
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Date	30/08/2023	о						1/3 authorization			

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Notes

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

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ID	Application	Sensing	Temperature		
1 1	Winding	Type Thermistor - 2 wires	Quantity 1 x Phase	155 °C	
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Rev.	Chan	ges Summary	Performed	Checked	Date
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Checked by				Page	Revision
Date	30/08/2023		1	3/3	1

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