DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line	: W22	E4 Three-Phase	1	Product code :	12774317		
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 : NE	Approx.	g ¹¹ method	: IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line : 428 kg : 0.3641 kgm²		
Output [kW]		45		45			
Poles		2		2			
Frequency [Hz]		50		60			
Rated voltage [V]		400/690		460			
Rated current [A]		77.7/45.0		68.7			
L. R. Amperes [A]		676/392		660			
LRC [A]		8.7		9.6			
No load current [A]		26.0/15.1 2970		25.0			
Rated speed [RPM Slip [%]	IJ				3575		
Slip [%] Rated torque [Nm]		1.00		0.69			
Locked rotor torque	<u>-</u> [%]	<u>145</u> 310			380		
Breakdown torque		380			450		
Service factor	[,,]	1.00		1.00			
Temperature rise		80 K			80 K		
Locked rotor time		30s (cold) 17s (hot)		36s (cold) 20s (hot)			
Noise level ²		74.0 dB(A)		79.0 dB(A)			
	25%	, , , , , , , , , , , , , , , , , , ,			. ,		
Efficiency (%)	50%	93.9			93.2		
Efficiency (%)	75%	94.5		94.0			
	100%	95.0	95.0		94.5		
	25%						
Power Factor	50%	0.75		0.73			
	75%	0.84		0.83			
	100%	0.88		0.87			
Losses at normati	ve operating	points (speed;torque), in per	centage of ra	ted output power			
		P1 (0,9;1,0)		4.9		5.5	
		P2 (0,5;1,0)		3.6		4.0	
		P3 (0,25;1,0)		3.2	3.5		
Losses (%)	P4 (0,9;0,5)		2.8	3.1		
		P5 (0,5;0,5)		1.6	1.8		
		P6 (0,5;0,25)		1.1	1.2		
		P7 (0,25;0,25)		0.6		0.7	
Dooring to		Drive end Non drive e					
Bearing type		: 6314 C3 6314 C3	max. au		: 3984 N		
Sealing		: WSeal WSeal		npression	: 8178 N		
Lubrication interv		: 5000 h 5000 h : 27 g 27 g					
Lubricant type	•	: Mobil Polyrex EM					
This revision replaces and cancel the previous one, which must be eliminated.			These a	These are average values based on tests with sinusoidal			
			power su	pply, subject to the			
(1) Looking the m			60034-1				
		plerance of +3dB(A).					
(3) Approximate w		t to changes after					
manufacturing pro (4) At 100% of full							
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Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
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Date	30/08/2023				1/3	1	

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Notes

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

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ID	Thermal protection Application Type Quantity Sensing Temper						
1	Winding	Thermistor - 2 wires	1 x Phase		55 °C		
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					1		
Rev.	Chan	ges Summary	Performed	Checked	Date		
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