DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:										
Product line : W22 IE3 Three-Phase				Product code : 12			12863	2863073			
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 Rotation¹ Starting method Approx. weight³ Moment of inertia (J)			: B3T : Both : Dire : 468	: IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line : 468 kg : 1.05 kgm²		
Output [kW]		55			55		5	5		55	
Poles		4			4			1		4	
Frequency [Hz]		50			50		50			60 460	
Rated voltage [V] Rated current [A]		380/660 103/59.3		400/690 98.7/57.2			415 97.5			87.2	
L. R. Amperes [A]		103/59.3 742/427		760/441			799			741	
LRC [A]		7.2		7.00/441			8.2			8.5	
No load current [A	.]		.0/20.7	39.0/22.6			42			37.0	
Rated speed [RPN			1480	1482				84		1785	
Slip [%]	-	1.33		1.20			1.07			0.83	
Rated torque [Nm]		355		355			354			294	
Locked rotor torqu		240		270			300			310	
Breakdown torque	: [%]	270			300		330			340	
Service factor		1.00			1.00			00		1.00	
Temperature rise		80 K 28s (cold) 16s (hot)		00- /-	80 K 28s (cold) 16s (hot)		80 K 27s (cold) 15s (hot)		0.4-	80 K	
Locked rotor time Noise level ²			0) 168 (1101) 0 dB(A)		4.0 dB(A)	ποι)	64.0			(cold) 19s (hot) 68.0 dB(A)	
Noise level	25%	04.0	J UD(A)	0.	4.0 UD(A)		04.0	JD(A)		00.0 ub(A)	
	50%	9	94.5		94.3		94.0			94.1	
Efficiency (%)	75%	1	94.6	94.6			94.6			95.0	
	100%		94.6		94.6		94.6			95.4	
	25%										
Power Factor	50%		0.73		0.69		0.60			0.67	
1 OWEI 1 actor	75%		0.82		0.80		0.78			0.78	
	100%	(0.86		0.85		0.83			0.83	
Losses at normat	ive operating	points (sp	eed;torque), i	n percer	ntage of ra	ated outp	out power				
	P1 (0	,9;1,0)	5.5		5	5.5		5.5		4.6	
		P2 (0,5;1,0) 4.				1.6				3.9	
		P3 (0,25;1,0)		4.6		1.6	4.6			3.9	
Losses (%)		P4 (0,9;0,5)		2.5		2.5		2.5		2.1	
		(0,5;0,5) 1.7			1.7		1.7			1.5	
		5;0,25) 25;0,25)	5;0,25) 1.1		1.1		1.1 0.7			0.9	
	P7 (U,2		. ,		0.7 Foundation load					0.6	
Posring type		Drive		ive end			S	7504			
Bearing type			6314 C3 6314 C3		Max. traction Max. compression		: 7564 N : 12159 N				
Sealing Lubrication interval			WSeal WSeal 14000 h		Max. Compression		. 12139 N				
Lubrication interval			27 g 27 g								
Lubricant type	•		lobil Polyrex E								
This revision replanust be eliminated (1) Looking the model (2) Measured at 10 (3) Approximate value and the manufacturing process (4) At 100% of full model (1) and the manufacturing process (2) at 100% of full model (3) at 100% of full model (4) at 10	ed. lotor from the Im and with t weight subject ocess.	shaft end olerance o	f +3dB(A).	hich		upply, su				th sinusoidal lated in IEC	
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Customer :

Thermal protection

ID Application		Туре	Quantity	Sensing Temperature	
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C	

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