

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Rolled Steel Three-Phase	Product code :	12895579	
		Catalog # :	.5012ES3E56C-S	
Frame	: 56C	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 26.6 lb	
Protection degree	: IP55	Moment of inertia (J)	: 0.1065 sq.ft.lb	
Output [HP]	0.5	0.5	0.5	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190/380	220/415	
Rated current [A]	2.19-1.98/0.992	2.14/1.07	2.02/1.07	
L. R. Amperes [A]	11.8-10.7/5.36	9.20/4.60	9.69/5.14	
LRC [A]	5.4x(Code K)	4.3x(Code G)	4.8x(Code J)	
No load current [A]	1.33-1.54/0.772	1.52/0.758	1.63/0.866	
Rated speed [RPM]	1160	945	955	
Slip [%]	3.33	5.50	4.50	
Rated torque [ft.lb]	2.23	2.74	2.71	
Locked rotor torque [%]	210	160	200	
Breakdown torque [%]	300	210	260	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	39s (cold) 22s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	50.0 dB(A)	48.0 dB(A)	48.0 dB(A)	
Efficiency (%)	25%	62.0	63.8	59.1
	50%	64.0	64.8	61.2
	75%	70.0	69.4	67.6
	100%	72.0	69.9	69.8
Power Factor	25%	0.24	0.29	0.25
	50%	0.44	0.52	0.46
	75%	0.56	0.65	0.59
	100%	0.65	0.75	0.69

Notes

<p>This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (4) At 100% of full load.</p>	<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>
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Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	24/01/2018		1 /	