DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Rolled Steel Three-Phase	Product code :	12676273
		Catalog # :	.5012ES3E56-S

Frame	: 56	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 26.1 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 level²		50.0 dB(A)	48.0 dB(A)	48.0 dB(A)
Efficiency (%)	25%			
	50%	64.0	64.8	61.2
	75%	70.0	69.4	67.6
	100%	72.0	69.9	69.8
Power Factor	25%			
	50%	0.44	0.52	0.46
	75%	0.56	0.65	0.59
	100%	0.65	0.75	0.69

Notes

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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/01/2018		1 /	

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