## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Three-Phase Product code : 12676261

Catalog # : .2518ES3E56-S

Frame : 56 Cooling method : IC411 - TEFC Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 18.4 lb

Ailliude		. 1000 III.a.S.I.	Approx. weight	. 10. <del>4</del> ID	
Protection degree		: IP55	Moment of inertia (J)	: 0.0453 sq.ft.lb	
Output [HP]		0.25	0.25	0.25	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		208-230/460	190/380	220/415	
Rated current [A]		1.15-1.04/0.521	1.13/0.564	1.10/0.585	
L. R. Amperes [A]		7.26-6.56/3.28	5.98/2.99	6.29/3.33	
LRC [A]		6.3x(Code M)	5.3x(Code J)	5.7x(Code L)	
No load current [A]		0.776-0.900/0.450	0.844/0.422	0.919/0.487	
Rated speed [RPM]		1765	1455	1465	
Slip [%]		1.94	3.00	2.33	
Rated torque [ft.lb]		0.734	0.890	0.884	
Locked rotor torque [%]		240	180	220	
Breakdown torque [%]		300	280	340	
Service factor			1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		68s (cold) 38s (hot)	72s (cold) 40s (hot)	63s (cold) 35s (hot)	
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%	54.4	56.7	52.5	
	50%	57.5	59.3	55.7	
	75%	66.0	66.2	63.7	
	100%	70.0	69.3	67.9	
	25%	0.24	0.28	0.25	
Power Factor	50%	0.43	0.50	0.44	
	75%	0.54	0.61	0.54	
	100%	0.62	0.70	0.63	

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 /		