

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12705542

Catalog # : 010120T3E256TC-S

Frame	: 254/6TC	Cooling method	: IC01 - ODP
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 ²	: 229 lb
Design	: B	Moment of inertia (J)	: 2.50 sq.ft.lb

Output [HP]	10	10	10
Poles	6	6	6
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	30.7-27.8/13.9	33.2/16.6	29.4/15.6
L. R. Amperes [A]	163-147/73.7	139/69.7	147/78.0
LRC [A]	5.3x(Code G)	4.2x(Code E)	5.0x(Code G)
No load current [A]	12.6-14.7/7.33	14.4/7.22	15.9/8.42
Rated speed [RPM]	1180	970	975
Slip [%]	1.67	3.00	2.50
Rated torque [ft.lb]	43.9	53.4	53.1
Locked rotor torque [%]	210	150	190
Breakdown torque [%]	229	180	220
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	61s (cold) 34s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	59.0 dB(A)	57.0 dB(A)	57.0 dB(A)
Efficiency (%)	25%		
	50%	91.0	89.2
	75%	91.7	89.8
	100%	91.7	89.0
Power Factor	25%		
	50%	0.56	0.56
	75%	0.68	0.68
	100%	0.74	0.75

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				
Date	22/01/2018			

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