

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 13163451

Catalog # : 01518ET3E254TC-SG

Frame	: 254/6TC	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 ²	: 226 lb
Protection degree	: IP55	Moment of inertia (J)	: 2.15 sq.ft.lb
Design	: B		

Output [HP]	15	15	15
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	40.2-36.4/18.2	43.8/21.9	38.9/20.6
L. R. Amperes [A]	262-237/118	241/120	253/134
LRC [A]	6.5x(Code G)	5.5x(Code F)	6.5x(Code H)
No load current [A]	14.9-17.3/8.65	17.1/8.53	18.6/9.86
Rated speed [RPM]	1770	1455	1465
Slip [%]	1.67	3.00	2.33
Rated torque [ft.lb]	43.9	53.4	53.0
Locked rotor torque [%]	250	190	229
Breakdown torque [%]	300	229	280
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	34s (cold) 19s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	91.0	90.9
	75%	92.4	91.4
	100%	92.4	90.7
Power Factor	25%		
	50%	0.64	0.64
	75%	0.76	0.76
	100%	0.82	0.82

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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