

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12898024

Catalog # : 00712ET3ER254TC-S

Frame	: 254/6TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
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)	: 2.34 sq.ft.lb
Design	: B		

Output [HP]	7.5	7.5	7.5
Poles	6	6	6
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	22.1-20.0/9.98	24.0/12.0	21.3/11.3
L. R. Amperes [A]	119-108/53.9	101/50.4	109/57.6
LRC [A]	5.4x(Code G)	4.2x(Code D)	5.1x(Code F)
No load current [A]	8.66-10.1/5.03	9.92/4.96	10.6/5.64
Rated speed [RPM]	1175	965	975
Slip [%]	2.08	3.50	2.50
Rated torque [ft.lb]	33.1	40.3	39.9
Locked rotor torque [%]	200	150	190
Breakdown torque [%]	229	180	220
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	75s (cold) 42s (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%	89.5	89.9
	75%	89.5	89.5
	100%	91.0	88.0
Power Factor	25%		
	50%	0.58	0.65
	75%	0.70	0.75
	100%	0.76	0.79

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	23/01/2018			

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