

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12677333

Catalog # : 00336ET3ER182TC-S

Frame	: 182/4TC	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 ^a	: 74.5 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1564 sq.ft.lb
Design	: B		

Output [HP]	3	3	3
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	8.12-7.34/3.67	8.70/4.35	7.68/4.07
L. R. Amperes [A]	71.4-64.6/32.3	60.0/30.0	63.0/33.4
LRC [A]	8.8x(Code K)	6.9x(Code H)	8.2x(Code J)
No load current [A]	2.78-3.22/1.61	3.18/1.59	3.39/1.80
Rated speed [RPM]	3515	2885	2910
Slip [%]	2.36	3.83	3.00
Rated torque [ft.lb]	4.42	5.39	5.34
Locked rotor torque [%]	220	180	229
Breakdown torque [%]	300	280	340
Service factor	1.15	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 level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	84.0	85.9
	75%	86.5	86.5
	100%	86.5	85.3
Power Factor	25%		
	50%	0.71	0.77
	75%	0.82	0.86
	100%	0.87	0.90

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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