

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12751163

Catalog # : 00518OT3E184TC-S

Frame	: 182/4TC	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	: 91.0 lb
Design	: B	Moment of inertia (J)	: 0.4003 sq.ft.lb

Output [HP]	5	5	5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	14.0-12.7/6.33	15.4/7.71	13.5/7.18
L. R. Amperes [A]	101-91.2/45.6	89.4/44.7	94.8/50.3
LRC [A]	7.2x(Code J)	5.8x(Code G)	7.0x(Code J)
No load current [A]	5.43-6.29/3.15	6.19/3.10	6.80/3.61
Rated speed [RPM]	1760	1445	1455
Slip [%]	2.22	3.67	3.00
Rated torque [ft.lb]	14.7	17.9	17.8
Locked rotor torque [%]	200	140	180
Breakdown torque [%]	310	220	270
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%		
	50%	88.5	87.5
	75%	88.5	87.7
	100%	89.5	86.4
Power Factor	25%		
	50%	0.63	0.64
	75%	0.76	0.76
	100%	0.82	0.83

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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