

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 12373791  
Catalog # : 00152ST3QIE182T-W22

Frame : 182/4T	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight <sup>2</sup> : 102 lb
Protection degree : IP55	Moment of inertia (J) : 0.4879 sq.ft.lb
Design : B	

Output [HP]	1.5	1.5	1.5	1.5
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	2.54	2.68	2.62	2.64
L. R. Amperes [A]	19.8	16.9	18.1	19.5
LRC [A]	7.8x(Code M)	6.3x(Code J)	6.9x(Code K)	7.4x(Code L)
No load current [A]	1.63	1.60	1.71	1.80
Rated speed [RPM]	1170	955	960	965
Slip [%]	2.50	4.50	4.00	3.50
Rated torque [ft.lb]	6.64	8.14	8.10	8.05
Locked rotor torque [%]	320	250	300	330
Breakdown torque [%]	400	290	330	370
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	28s (cold) 16s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	52.0 dB(A)	52.0 dB(A)	52.0 dB(A)
Efficiency (%)	25%			
	50%	84.0	85.5	84.5
	75%	86.5	86.5	86.5
	100%	87.5	85.5	86.5
Power Factor	25%			
	50%	0.45	0.52	0.48
	75%	0.54	0.63	0.60
	100%	0.62	0.73	0.70

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6207 C3	6206 C3	Max. traction : 142 lb
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 244 lb
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	7 g	5 g	
Lubricant type :	Mobil Polyrex EM		

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).
- (3) Approximate weight subject to changes after manufacturing process.
- (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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