

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 13205894  
Catalog # : 00109ST3QIE182T-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> : 90.8 lb
Protection degree : IP55	Moment of inertia (J) : 0.3991 sq.ft.lb
Design : B	

Output [HP]	1	1	1	1
Poles	8	8	8	8
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	2.30	2.52	2.56	2.61
L. R. Amperes [A]	13.8	15.1	15.4	15.7
LRC [A]	6.0x(Code M)	6.0x(Code L)	6.0x(Code M)	6.0x(Code N)
No load current [A]	1.70	1.67	1.82	1.94
Rated speed [RPM]	875	715	715	720
Slip [%]	2.78	4.67	4.67	4.00
Rated torque [ft.lb]	5.92	7.25	7.25	7.20
Locked rotor torque [%]	300	240	270	300
Breakdown torque [%]	350	250	280	310
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)
Noise level <sup>2</sup>	50.0 dB(A)	46.0 dB(A)	46.0 dB(A)	46.0 dB(A)
Efficiency (%)	25%	72.4	74.4	71.5
	50%	74.0	74.7	72.0
	75%	77.0	75.5	75.5
	100%	78.5	75.5	75.5
Power Factor	25%	0.18	0.21	0.19
	50%	0.32	0.38	0.35
	75%	0.42	0.50	0.46
	100%	0.52	0.60	0.56

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6207 C3	6206 C3	Max. traction : 99 lb
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 190 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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Revision