

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium  
Efficiency Three-Phase

Product code : 11970039

Catalog # : 00212ST3QIE184TC-W22

Frame : 182/4TC  
Insulation class : F  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Design : B

Cooling method : IC411 - TEFC  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Starting method : Direct On Line  
Approx. weight<sup>2</sup> : 112 lb  
Moment of inertia (J) : 0.6210 sq.ft.lb

Output [HP]	2	2	2	2
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	3.22	3.66	3.61	3.58
L. R. Amperes [A]	24.2	22.0	24.2	25.4
LRC [A]	7.5x(Code L)	6.0x(Code J)	6.7x(Code K)	7.1x(Code L)
No load current [A]	1.90	1.90	2.05	2.15
Rated speed [RPM]	1170	960	965	965
Slip [%]	2.50	4.00	3.50	3.50
Rated torque [ft.lb]	8.86	10.8	10.7	10.7
Locked rotor torque [%]	300	229	280	310
Breakdown torque [%]	350	260	310	340
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	55s (cold) 31s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	52.0 dB(A)	52.0 dB(A)	52.0 dB(A)
Efficiency (%)	25%	85.4	84.8	84.2
	50%	86.5	85.5	85.0
	75%	87.5	86.0	86.5
	100%	88.5	86.5	87.0
Power Factor	25%	0.26	0.31	0.26
	50%	0.46	0.53	0.46
	75%	0.58	0.65	0.59
	100%	0.66	0.72	0.67

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6207 C3	6206 C3
Sealing	: Inpro/Seal	Inpro/Seal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 7 g	5 g
Lubricant type	: Mobil Polyrex EM	

Foundation loads  
Max. traction : 180 lb  
Max. compression : 292 lb

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		Page 1 / 1Revision		
Checked by				
Date	19/01/2018			