

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 12424289  
Catalog # : 01009ST3QIE284T-W22

Frame : 284/6T	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> : 349 lb
Protection degree : IP55	Moment of inertia (J) : 7.20 sq.ft.lb
Design : B	

Output [HP]	10	10	10	10
Poles	8	8	8	8
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	13.4	16.1	15.3	15.1
L. R. Amperes [A]	75.0	70.8	75.0	78.5
LRC [A]	5.6x(Code G)	4.4x(Code E)	4.9x(Code F)	5.2x(Code G)
No load current [A]	6.50	6.40	6.90	7.35
Rated speed [RPM]	880	725	725	730
Slip [%]	2.22	3.33	3.33	2.67
Rated torque [ft.lb]	58.9	71.5	71.5	71.0
Locked rotor torque [%]	200	150	170	190
Breakdown torque [%]	240	190	210	229
Service factor	1.25	1.00	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	57s (cold) 32s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level <sup>2</sup>	54.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)
Efficiency (%)	25%	89.3	90.3	88.3
	50%	89.5	89.5	88.5
	75%	90.2	88.5	88.5
	100%	90.2	87.5	88.5
Power Factor	25%	0.36	0.42	0.39
	50%	0.61	0.68	0.64
	75%	0.72	0.77	0.74
	100%	0.78	0.81	0.80

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6311 C3	6211 C3	Max. traction : 547 lb
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 896 lb
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	18 g	11 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		Page      Revision 1 / 1		
Checked by				
Date	23/01/2018			