

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 12176656  
Catalog # : 15009ST3QIE447T-W22

Frame : 445/7T	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> : 2224 lb
Protection degree : IP55	Moment of inertia (J) : 125 sq.ft.lb
Design : B	

Output [HP]	150	125	125	125
Poles	8	8	8	8
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	185	183	177	175
L. R. Amperes [A]	1110	1025	1097	1138
LRC [A]	6.0x(Code G)	5.6x(Code F)	6.2x(Code G)	6.5x(Code H)
No load current [A]	80.0	78.9	83.3	86.8
Rated speed [RPM]	890	740	740	740
Slip [%]	1.11	1.33	1.33	1.33
Rated torque [ft.lb]	873	875	875	875
Locked rotor torque [%]	190	170	200	220
Breakdown torque [%]	210	200	229	250
Service factor	1.15	1.15	1.15	1.15
Temperature rise	105 K	105 K	105 K	105 K
Locked rotor time	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level <sup>2</sup>	63.0 dB(A)			
Efficiency (%)	25%			
	50%	94.5	94.5	93.6
	75%	94.5	94.1	94.1
	100%	94.5	94.1	94.1
Power Factor	25%			
	50%	0.64	0.65	0.57
	75%	0.74	0.72	0.69
	100%	0.79	0.80	0.76

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6319 C3	6316 C3	Max. traction : 4800 lb
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 7024 lb
Lubrication interval :	17000 h	20000 h	
Lubricant amount :	45 g	34 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			

Page 1 / 1  
Revision