

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11431348

Catalog # : 01036ST3QIE215T-W22

Frame : 213/5T
Output : 10 HP (7.5 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 11.7 A
L. R. Amperes : 84.5 A
LRC : 7.2x(Code H)
No load current : 3.60 A
Rated speed : 3520 rpm
Slip : 2.22 %
Rated torque : 14.9 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.6362 sq.ft.lb
Design : B

Locked rotor time : 32s (cold) 18s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP56
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 167 lb

Output	50%	75%	100%
Efficiency (%)	89.5 88.6 88.4 87.7 89.5 89.5 89.5	90.2 89.6 89.6 89.5 89.5 89.5 89.5	90.2 89.5 89.5 89.8 88.5 88.5 88.5
Power Factor	0.79 0.75 0.72 0.70 0.83 0.81 0.79	0.86 0.85 0.83 0.81 0.89 0.87 0.86	0.89 0.88 0.85 0.85 0.90 0.89 0.88

Foundation loads
Max. traction : 191 lb

Max. compression : 358 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	10.5	11.4	11.4	11.0	12.6	12.6	12.6
	P2 (0,5;1,0)	8.5	9.2	9.2	8.9	10.1	10.1	10.1
	P3 (0,25;1,0)	7.4	8.0	8.0	7.8	8.9	8.9	8.9
	P4 (0,9;0,5)	5.1	5.6	5.6	5.4	6.2	6.2	6.2
	P5 (0,5;0,5)	3.2	3.4	3.4	3.3	3.8	3.8	3.8
	P6 (0,5;0,25)	2.0	2.2	2.2	2.1	2.4	2.4	2.4
	P7 (0,25;0,25)	1.2	1.3	1.3	1.3	1.5	1.5	1.5

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6308 C3	6207 C3
Sealing :	Inpro/Seal	Inpro/Seal
Lubrication interval :	20000 h	20000 h
Lubricant amount :	11 g	7 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 1 / 1		
Checked by				
Date	29/03/2024			
		Revision		