

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13864440

Catalog # : 00718ET3E213T-W22G

Frame : 213/5T
Output : 7.5 HP (5.5 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 18.4/9.18 A
L. R. Amperes : 130/65.2 A
LRC : 7.1x(Code H)
No load current : 8.40/4.20 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 22.3 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 1.34 sq.ft.lb
Design : B

Locked rotor time : 36s (cold) 20s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 58.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 169 lb

Output	50%	75%	100%
Efficiency (%)	89.5 89.5	91.0 89.5	91.7 89.6
	89.5 89.5	90.2 90.2	90.2 90.2
Power Factor	0.66 0.72	0.76 0.81	0.82 0.85
	0.69 0.66	0.78 0.76	0.83 0.82

Foundation loads
Max. traction : 355 lb
Max. compression : 524 lb

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

Losses (%)	P1 (0,9;1,0)	8.8	8.8	8.8	8.8
	P2 (0,5;1,0)	7.0	7.0	7.0	7.0
	P3 (0,25;1,0)	6.5	6.5	6.5	6.5
	P4 (0,9;0,5)	4.9	4.9	4.9	4.9
	P5 (0,5;0,5)	3.3	3.3	3.3	3.3
	P6 (0,5;0,25)	2.4	2.4	2.4	2.4
	P7 (0,25;0,25)	1.6	1.6	1.6	1.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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	26/03/2024			

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Revision