

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12182932

Catalog # : 01018ET3ER215TC-W22

Frame : 215TC
Output : 10 HP (7.5 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 25.3/12.7 A
L. R. Amperes : 162/81.1 A
LRC : 6.4x(Code H)
No load current : 11.3/5.65 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 29.8 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 295 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 1.51 sq.ft.lb
Design : B

Locked rotor time : 30s (cold) 17s (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 : W-6
Rotation¹ : Both (CW and CCW)
Noise level² : 58.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 181 lb

Output	50%	75%	100%
Efficiency (%)	91.0 90.0 89.2 88.7 90.3 90.3 90.3	91.7 90.0 89.9 89.8 90.2 90.2 90.2	91.7 89.8 90.1 90.3 88.5 89.5 90.2
Power Factor	0.65 0.61 0.57 0.53 0.72 0.68 0.64	0.76 0.74 0.70 0.67 0.81 0.79 0.76	0.81 0.81 0.77 0.75 0.85 0.84 0.82

Foundation loads
Max. traction : 457 lb

Max. compression : 638 lb

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

Losses (%)	P1 (0,9;1,0)	8.8	11.0	10.7	10.4	12.6	11.4	10.6
	P2 (0,5;1,0)	7.3	9.2	8.9	8.7	10.5	9.5	8.8
	P3 (0,25;1,0)	7.0	8.8	8.5	8.3	10.1	9.1	8.4
	P4 (0,9;0,5)	4.6	5.8	5.6	5.5	6.6	6.0	5.6
	P5 (0,5;0,5)	3.2	4.0	3.9	3.8	4.6	4.1	3.8
	P6 (0,5;0,25)	2.3	2.8	2.7	2.7	3.2	2.9	2.7
	P7 (0,25;0,25)	1.6	2.0	1.9	1.9	2.2	2.0	1.9

	<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		Page 1 / 1		
Checked by				
Date	26/03/2024			
		Revision		