

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11437961

Catalog # : 01018ET3E215T-W22

Frame	: 213/5T	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 25.3/12.7 A	Protection degree	: IP55
L. R. Amperes	: 162/81.1 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code H)	Mounting	: F-1
No load current	: 11.3/5.65 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 29.8 ft.lb	Approx. weight ³	: 177 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		

Output	50%	75%	100%	Foundation loads	
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	Max. traction	: 459 lb
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	Max. compression	: 636 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 Revision		
Checked by				
Date	26/03/2024			