

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11606715

Catalog # : 01036ET3E215TC-W22

Frame	: 213/5TC	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 23.2/11.6 A	Protection degree	: IP55
L. R. Amperes	: 167/83.5 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: F-1
No load current	: 7.20/3.60 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 14.9 ft.lb	Approx. weight <sup>3</sup>	: 179 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		

Output	50%	75%	100%	Foundation loads	
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	Max. traction	: 183 lb
Power Factor	0.79 0.75 0.72 0.70 0.83 0.81 0.79	0.87 0.86 0.83 0.82 0.90 0.88 0.87	0.90 0.90 0.88 0.86 0.91 0.91 0.90	Max. compression	: 363 lb

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

Losses (%)	P1 (0,9;1,0)	10.7	10.7	10.7	10.7	10.7	10.7	10.7
	P2 (0,5;1,0)	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	P3 (0,25;1,0)	7.8	7.8	7.8	7.8	7.8	7.8	7.8
	P4 (0,9;0,5)	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	P5 (0,5;0,5)	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	P6 (0,5;0,25)	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	P7 (0,25;0,25)	1.3	1.3	1.3	1.3	1.3	1.3	1.3

		<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