

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11792476

Catalog # : 07512EG3E405T-W22

Frame : 404/5T  
Output : 75 HP (55 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 179/89.3 A  
L. R. Amperes : 1429/714 A  
LRC : 8.0x(Code J)  
No load current : 86.0/43.0 A  
Rated speed : 1190 rpm  
Slip : 0.83 %  
Rated torque : 331 ft.lb  
Locked rotor torque : 280 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 41.3 sq.ft.lb  
Design : A

Locked rotor time : 27s (cold) 15s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 68.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 1230 lb

Output	50%	75%	100%
Efficiency (%)	94.1 94.1	95.0 94.6	95.4 94.6
	94.6 94.1	95.0 95.0	95.0 95.0
Power Factor	0.64 0.70	0.75 0.80	0.81 0.84
	0.66 0.62	0.77 0.74	0.82 0.81

Foundation loads  
Max. traction : 2968 lb  
Max. compression : 4198 lb

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

Losses (%)	P1 (0,9;1,0)	4.8	5.7	5.2	5.2
	P2 (0,5;1,0)	3.6	4.3	4.0	4.0
	P3 (0,25;1,0)	3.0	3.6	3.3	3.3
	P4 (0,9;0,5)	2.9	3.4	3.2	3.2
	P5 (0,5;0,5)	1.9	2.2	2.0	2.0
	P6 (0,5;0,25)	1.4	1.7	1.6	1.6
	P7 (0,25;0,25)	0.9	1.1	1.0	1.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6316 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	16000 h	17000 h
Lubricant amount	:	34 g	27 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				
Checked by				
Date	29/03/2024			

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Revision