

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11792527

Catalog # : 15018EG3G445T-W22

Frame	: 444/5T	Locked rotor time	: 64s (cold) 36s (hot)
Output	: 150 HP (110 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 172 A	Protection degree	: IP55
L. R. Amperes	: 1582 A	Cooling method	: IC411 - TEFC
LRC	: 9.2x(Code K)	Mounting	: F-1
No load current	: 65.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1789 rpm	Noise level <sup>2</sup>	: 73.0 dB(A)
Slip	: 0.61 %	Starting method	: Direct On Line
Rated torque	: 440 ft.lb	Approx. weight <sup>3</sup>	: 1926 lb
Locked rotor torque	: 290 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 73.0 sq.ft.lb		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	95.0	95.7	95.4	95.8	96.2	96.2	96.5	96.2	Max. traction	: 3408 lb
	95.5	95.5	95.8	95.8	96.0	96.2	96.2	96.4		
Power Factor	0.44	0.50	0.68	0.74	0.79	0.83	0.83	0.85	Max. compression	: 5335 lb
	0.47	0.44	0.71	0.68	0.81	0.80	0.85	0.84		

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

Losses (%)	P1 (0,9;1,0)	3.6	3.9	3.9	3.7
	P2 (0,5;1,0)	2.5	2.7	2.7	2.6
	P3 (0,25;1,0)	2.0	2.2	2.2	2.0
	P4 (0,9;0,5)	2.3	2.5	2.5	2.4
	P5 (0,5;0,5)	1.3	1.4	1.4	1.4
	P6 (0,5;0,25)	1.0	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	8000 h	10000 h
Lubricant amount	:	45 g	34 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			
			Page	Revision
			1 / 1	