

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 12604365

Catalog # : 01518EG3E254T-W22

Frame : 254/6T  
Output : 15 HP (11 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 35.6/17.8 A  
L. R. Amperes : 303/151 A  
LRC : 8.5x(Code K)  
No load current : 16.2/8.10 A  
Rated speed : 1780 rpm  
Slip : 1.11 %  
Rated torque : 44.3 ft.lb  
Locked rotor torque : 320 %  
Breakdown torque : 350 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 3.66 sq.ft.lb  
Design : A

Locked rotor time : 55s (cold) 31s (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> : 64.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 322 lb

Output	50%	75%	100%
Efficiency (%)	91.7 91.7	93.0 92.4	93.6 92.4
	92.4 92.0	93.0 93.0	93.0 93.0
Power Factor	0.66 0.73	0.76 0.82	0.83 0.86
	0.69 0.67	0.79 0.77	0.84 0.82

Foundation loads  
Max. traction : 708 lb  
Max. compression : 1030 lb

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

Losses (%)	P1 (0,9;1,0)	6.5	7.8	7.1	7.1
	P2 (0,5;1,0)	4.8	5.7	5.2	5.2
	P3 (0,25;1,0)	4.1	5.0	4.6	4.6
	P4 (0,9;0,5)	3.9	4.7	4.3	4.3
	P5 (0,5;0,5)	2.4	2.8	2.6	2.6
	P6 (0,5;0,25)	1.8	2.2	2.0	2.0
	P7 (0,25;0,25)	1.1	1.3	1.2	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 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		Page 1 / 1		
Checked by				
Date	29/03/2024			
		Revision		