

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11715185

Catalog # : 02018EG3E256T-W22

Frame : 254/6T
 Output : 20 HP (15 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 49.4/24.7 A
 L. R. Amperes : 405/203 A
 LRC : 8.2x(Code K)
 No load current : 23.0/11.5 A
 Rated speed : 1778 rpm
 Slip : 1.22 %
 Rated torque : 59.1 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 300 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 4.29 sq.ft.lb
 Design : A

Locked rotor time : 36s (cold) 20s (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
 Rotation¹ : Both (CW and CCW)
 Noise level² : 64.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 361 lb

Output	50%	75%	100%
Efficiency (%)	93.0 92.4	93.6 92.8	94.1 92.9
	93.0 93.0	93.3 93.6	93.4 93.5
Power Factor	0.63 0.70	0.75 0.80	0.81 0.84
	0.65 0.62	0.77 0.74	0.83 0.81

Foundation loads
 Max. traction : 809 lb
 Max. compression : 1170 lb

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

Losses (%)	P1 (0,9;1,0)	6.1	7.3	6.6	6.6
	P2 (0,5;1,0)	4.7	5.7	5.2	5.2
	P3 (0,25;1,0)	4.2	5.1	4.6	4.6
	P4 (0,9;0,5)	3.5	4.2	3.8	3.8
	P5 (0,5;0,5)	2.3	2.7	2.5	2.5
	P6 (0,5;0,25)	1.7	2.0	1.8	1.8
	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		