

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11458408

Catalog # : 01012ET3E256TC-W22

Frame : 254/6TC
 Output : 10 HP (7.5 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 26.6/13.3 A
 L. R. Amperes : 173/86.5 A
 LRC : 6.5x(Code H)
 No load current : 12.0/6.00 A
 Rated speed : 1175 rpm
 Slip : 2.08 %
 Rated torque : 44.7 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 4.43 sq.ft.lb
 Design : B

Locked rotor time : 46s (cold) 26s (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 : 59.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 307 lb

Output	50%	75%	100%
Efficiency (%)	90.2 90.2	91.0 89.5	91.0 89.1
	90.2 89.5	90.2 90.2	89.5 89.5
Power Factor	0.63 0.66	0.74 0.79	0.78 0.83
	0.63 0.60	0.77 0.75	0.82 0.81

Foundation loads
 Max. traction : 518 lb
 Max. compression : 825 lb

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

Losses (%)	P1 (0,9;1,0)	9.8	9.8	9.8	9.8
	P2 (0,5;1,0)	8.4	8.4	8.4	8.4
	P3 (0,25;1,0)	7.8	7.8	7.8	7.8
	P4 (0,9;0,5)	5.0	5.0	5.0	5.0
	P5 (0,5;0,5)	3.6	3.6	3.6	3.6
	P6 (0,5;0,25)	2.5	2.5	2.5	2.5
	P7 (0,25;0,25)	1.8	1.8	1.8	1.8

		<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	26/03/2024			
		Revision		