

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12378663

Catalog # : 00136ET3E143T-W22

Frame : 143/5T
 Output : 1 HP (0.75 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 2.94/1.47 A
 L. R. Amperes : 24.1/12.1 A
 LRC : 8.2x(Code L)
 No load current : 1.54/0.770 A
 Rated speed : 3500 rpm
 Slip : 2.78 %
 Rated torque : 1.50 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.0332 sq.ft.lb

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 : 68.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 39.1 lb

Output	50%	75%	100%
Efficiency (%)	75.0 72.9 72.3 71.7 77.0 77.0 77.0	79.0 77.6 77.6 77.6 78.5 78.5 78.5	80.0 80.0 80.0 80.0 78.5 80.0 80.0
Power Factor	0.63 0.58 0.53 0.50 0.68 0.63 0.60	0.74 0.70 0.66 0.63 0.78 0.75 0.72	0.80 0.78 0.75 0.72 0.85 0.82 0.80

Foundation loads
 Max. traction : 23 lb
 Max. compression : 62 lb

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

Losses (%)	P1 (0,9;1,0)	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	P2 (0,5;1,0)	16.9	16.9	16.9	16.9	16.9	16.9	16.9
	P3 (0,25;1,0)	16.0	16.0	16.0	16.0	16.0	16.0	16.0
	P4 (0,9;0,5)	14.5	14.5	14.5	14.5	14.5	14.5	14.5
	P5 (0,5;0,5)	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	P6 (0,5;0,25)	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	P7 (0,25;0,25)	4.4	4.4	4.4	4.4	4.4	4.4	4.4

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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		