

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 12604505

Catalog # : 00156EG3E143T-W22

Frame : 143/5T
 Output : 1.5 HP (1.1 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 3.84/1.92 A
 L. R. Amperes : 32.3/16.1 A
 LRC : 8.4x(Code K)
 No load current : 1.60/0.800 A
 Rated speed : 3485 rpm
 Slip : 3.19 %
 Rated torque : 2.26 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 350 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.0470 sq.ft.lb
 Design : A

Locked rotor time : 52s (cold) 29s (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 : 48.6 lb

Output	50%	75%	100%
Efficiency (%)	84.0 84.0	85.5 85.0	86.5 85.0
	84.5 84.5	85.5 85.5	85.5 85.5
Power Factor	0.67 0.73	0.78 0.83	0.83 0.87
	0.69 0.66	0.80 0.78	0.86 0.84

Foundation loads
 Max. traction : 66 lb
 Max. compression : 114 lb

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

Losses (%)	P1 (0,9;1,0)	14.1	16.0	15.4	15.4
	P2 (0,5;1,0)	10.1	11.4	11.0	11.0
	P3 (0,25;1,0)	9.6	10.9	10.5	10.5
	P4 (0,9;0,5)	8.1	9.2	8.8	8.8
	P5 (0,5;0,5)	4.4	5.0	4.8	4.8
	P6 (0,5;0,25)	3.1	3.5	3.4	3.4
	P7 (0,25;0,25)	1.8	2.1	2.0	2.0

		<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				
Checked by				
Date	29/03/2024			

Page 1 / 1
 Revision