

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 12604504

Catalog # : 00136EG3E143T-W22

Frame : 143/5T
Output : 1 HP (0.75 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 2.70/1.35 A
L. R. Amperes : 21.6/10.8 A
LRC : 8.0x(Code K)
No load current : 1.16/0.580 A
Rated speed : 3485 rpm
Slip : 3.19 %
Rated torque : 1.51 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.0415 sq.ft.lb

Locked rotor time : 64s (cold) 36s (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 : 45.9 lb

Output	50%	75%	100%
Efficiency (%)	81.5 81.0	82.5 82.0	84.0 83.5
	81.0 81.2	82.0 82.2	83.5 84.0
Power Factor	0.69 0.74	0.79 0.83	0.83 0.88
	0.71 0.68	0.81 0.79	0.86 0.85

Foundation loads
Max. traction : 24 lb
Max. compression : 70 lb

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

Losses (%)	P1 (0,9;1,0)	17.0	17.7	17.7	17.0
	P2 (0,5;1,0)	11.8	12.3	12.3	11.8
	P3 (0,25;1,0)	11.5	11.9	11.9	11.5
	P4 (0,9;0,5)	10.1	10.5	10.5	10.1
	P5 (0,5;0,5)	5.2	5.4	5.4	5.2
	P6 (0,5;0,25)	3.6	3.8	3.8	3.6
	P7 (0,25;0,25)	2.1	2.2	2.2	2.1

	<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 Revision 1 / 1		
Checked by				
Date	29/03/2024			