

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11791959

Catalog # : 00158EG3EL145T-W22

Frame : L143/5T
Output : 1.5 HP (1.1 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 3.86/1.93 A
L. R. Amperes : 34.0/17.0 A
LRC : 8.8x(Code L)
No load current : 2.20/1.10 A
Rated speed : 1760 rpm
Slip : 2.22 %
Rated torque : 4.48 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 340 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.1815 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 : 51.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 59.6 lb

Output	50%	75%	100%
Efficiency (%)	85.5 85.5	87.5 86.5	88.5 86.5
	86.5 86.5	87.5 87.5	87.5 87.5
Power Factor	0.62 0.69	0.74 0.79	0.81 0.85
	0.65 0.62	0.77 0.75	0.84 0.82

Foundation loads
Max. traction : 116 lb
Max. compression : 175 lb

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

Losses (%)	P1 (0,9;1,0)	12.2	14.7	13.4	13.4
	P2 (0,5;1,0)	9.9	11.9	10.9	10.9
	P3 (0,25;1,0)	9.6	11.5	10.6	10.6
	P4 (0,9;0,5)	6.9	8.3	7.6	7.6
	P5 (0,5;0,5)	4.7	5.6	5.2	5.2
	P6 (0,5;0,25)	3.5	4.2	3.9	3.9
	P7 (0,25;0,25)	2.5	3.1	2.8	2.8

		<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			

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Revision