

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11792009

Catalog # : 00218EG3EL145T-W22

Frame	: L143/5T	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.26/2.63 A	Protection degree	: IP55
L. R. Amperes	: 45.2/22.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.6x(Code L)	Mounting	: F-1
No load current	: 3.08/1.54 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 51.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 5.97 ft.lb	Approx. weight ³	: 59.8 lb
Locked rotor torque	: 290 %		
Breakdown torque	: 360 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1815 sq.ft.lb		
Design	: A		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.5 85.5	87.5 86.5	88.5 86.5	Max. traction	: 189 lb
	85.5 86.5	86.5 87.5	86.5 87.5		
Power Factor	0.61 0.69	0.74 0.79	0.81 0.85	Max. compression	: 249 lb
	0.64 0.61	0.78 0.74	0.83 0.82		

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

Losses (%)	P1 (0,9;1,0)	12.3	14.7	14.7	13.5
	P2 (0,5;1,0)	10.2	12.2	12.2	11.2
	P3 (0,25;1,0)	10.2	12.2	12.2	11.2
	P4 (0,9;0,5)	6.8	8.1	8.1	7.4
	P5 (0,5;0,5)	4.7	5.7	5.7	5.2
	P6 (0,5;0,25)	3.5	4.3	4.3	3.9
	P7 (0,25;0,25)	2.6	3.1	3.1	2.9

		Drive end	Non drive end
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