

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12592403
Catalog # :

Frame	: 143/5TC	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 105 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	: 4.20/2.10 A	Protection degree	: IP55
L. R. Amperes	: 36.1/18.1 A	Cooling method	: IC410 - TENV
LRC	: 8.6x(Code L)	Mounting	: F-1
No load current	: 2.15/1.27 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Starting method	: VFD
Slip	: 2.78 %	Approx. weight ³	: 55.1 lb
Rated torque	: 4.50 ft.lb		
Locked rotor torque	: 280 %		
Breakdown torque	: 310 %		
Insulation class	: H		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1424 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	85.5	86.0	86.5	Max. traction	: 94 lb
Power Factor	0.00	0.58	0.69	0.76	Max. compression	: 149 lb

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6205 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 g
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.

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Date	06/03/2025			

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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