

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12674939

Catalog # : 00236OT3E145T-SG

Frame : 143/5T
Output : 2 HP (1.5 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 4.84/2.42 A
L. R. Amperes : 43.1/21.5 A
LRC : 8.9x(Code K)
No load current : 1.83/0.917 A
Rated speed : 3510 rpm
Slip : 2.50 %
Rated torque : 0.414 kgfm
Locked rotor torque : 220 %
Breakdown torque : 330 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.0049 kgm²
Design : B

Locked rotor time : 25s (cold) 14s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 62.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 17.1 kg

Output	25%	50%	75%	100%				
Efficiency (%)	83.7	85.5	84.0	85.0	85.5	85.1	85.5	84.2
Power Factor	0.49	0.56	0.77	0.83	0.86	0.90	0.91	0.93
	0.49	0.77	0.77	0.87	0.87	0.91	0.91	

Foundation loads
Max. traction : 35 kgf
Max. compression : 52 kgf

	Drive end	Non drive end
Bearing type	: 6205 ZZ	: 6203 ZZ
Sealing	: Without Bearing Seal	: Without Bearing Seal
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
Checked by				
Date				
			1 / 1	