

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :			
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12674623
		Catalog # :	00156OT3E143TC-S
Frame	: 143/5TC	Locked rotor time	: 34s (cold) 19s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 3.70/1.85 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 31.8/15.9 A	Mounting	: F-1
LRC	: 8.6x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 1.62/0.809 A	Noise level ²	: 62.0 dB(A)
Rated speed	: 3510 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight ³	: 30.2 lb
Rated torque	: 2.24 ft.lb		
Locked rotor torque	: 210 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0835 sq.ft.lb		
Design	: B		
Output	25% 50% 75% 100%	Foundation loads	
Efficiency (%)	81.1 83.2 81.5 82.7 84.0 83.6 84.0 82.7 80.7 81.0 83.3 83.2	Max. traction	: 55 lb
Power Factor	0.45 0.51 0.73 0.79 0.83 0.88 0.89 0.92 0.43 0.71 0.83 0.88	Max. compression	: 85 lb
Bearing type	: <u>Drive end</u> 6205 ZZ	<u>Non drive end</u> 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
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