

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12674697	
		Catalog # :	00158OT3E145TC-S	
Frame	: 143/5TC	Locked rotor time	: 27s (cold) 15s (hot)	
Output	: 1.5 HP (1.1 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	: 4.14/2.07 A	Cooling method	: IC01 - ODP	
L. R. Amperes	: 36.0/18.0 A	Mounting	: F-1	
LRC	: 8.7x(Code L)	Rotation ¹	: Both (CW and CCW)	
No load current	: 2.40/1.20 A	Noise level ²	: 52.0 dB(A)	
Rated speed	: 1760 rpm	Starting method	: Direct On Line	
Slip	: 2.22 %	Approx. weight ³	: 42.8 lb	
Rated torque	: 4.48 ft.lb			
Locked rotor torque	: 280 %			
Breakdown torque	: 330 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 0.1426 sq.ft.lb			
Design	: B			
Output	25% 50% 75% 100%	Foundation loads		
Efficiency (%)	83.6 85.3 84.0 84.3 86.5 84.7 86.5 83.2	Max. traction	: 125 lb	
	83.1 83.0 84.7 84.2			
Power Factor	0.32 0.38 0.56 0.64 0.69 0.77 0.77 0.83	Max. compression	: 168 lb	
	0.32 0.57 0.70 0.79			
		<u>Drive end</u>	<u>Non drive end</u>	
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				
Checked by			Page	Revision
Date	27/12/2023		1 / 1	