

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : Rolled Steel NEMA Premium Efficiency Three-Phase		Product code : 12674791			
		Catalog # : 00158OT3E145T-S			
Frame	: 143/5T	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	: 42.6 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	50%	75%	100%	Foundation loads	
Efficiency (%)	84.0 84.3	86.5 84.7	86.5 83.2	Max. traction : 125 lb	
	83.0	84.7	84.2		
Power Factor	0.56 0.64	0.69 0.77	0.77 0.83	Max. compression : 168 lb	
	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	