

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :									
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code :	12898080					
			Catalog # :	02018ET3ER256TC-S					
Frame	: 254/6TC	Locked rotor time	: 28s (cold) 16s (hot)						
Output	: 20 HP (15 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	: 49.4/24.7 A	Protection degree	: IP55						
L. R. Amperes	: 331/165 A	Cooling method	: IC411 - TEFC						
LRC	: 6.7x(Code H)	Mounting	: W-6						
No load current	: 22.2/11.1 A	Rotation ¹	: Both (CW and CCW)						
Rated speed	: 1765 rpm	Noise level ²	: 68.0 dB(A)						
Slip	: 1.94 %	Starting method	: Direct On Line						
Rated torque	: 59.5 ft.lb	Approx. weight ³	: 258 lb						
Locked rotor torque	: 270 %								
Breakdown torque	: 300 %								
Insulation class	: F								
Service factor	: 1.15								
Moment of inertia (J)	: 2.64 sq.ft.lb								
Design	: B								
Output	25%	50%	75%	100%					
Efficiency (%)	91.0	91.7	92.4	93.0					
Power Factor	0.40	0.66	0.77	0.82					
Foundation loads									
	Max. traction		: 727 lb						
	Max. compression		: 985 lb						
Drive end									
Bearing type	: 6309 Z C3	Non drive end							
Sealing	: V'Ring	6208 Z C3							
Lubrication interval	: 14395 h	Without Bearing Seal							
Lubricant amount	: 13 g	16660 h							
Lubricant type	: Mobil Polyrex EM	8 g							
Notes: USABLE @208V 54.6A SF 1.00 SFA 54.6A									
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					
Performed by									
Checked by									
Date	27/03/2024			Page 1 / 1					
				Revision					