DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	14122317
		Catalog # :	00218ET3H145TC-S

Frame	: 143/5TC	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 2.18 A	Protection degree	: IP55
L. R. Amperes	: 17.8 A	Cooling method	: IC411 - TEFC
LRC	: 8.2x(Code K)	Mounting	: W-6
No load current	: 1.12 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 1745 rpm	Noise level²	: 52.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 6.02 ft.lb	Approx. weight³	: 43.3 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1296 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	86.0	85.5	87.5	86.5
Power Factor	0.35	0.60	0.73	0.80

Foundation loads	
Max. traction	: 135 lb
Max. compression	: 179 lb

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6203 ZZ
Sealing	:	V'Ring	V'Ring
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	27/03/2024		1 / 1	

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