

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12445606

Catalog # : 00118ET3H143TC-W22

Frame : 143/5TC
 Output : 1 HP (0.75 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 1.18 A
 L. R. Amperes : 10.1 A
 LRC : 8.6x(Code M)
 No load current : 0.752 A
 Rated speed : 1760 rpm
 Slip : 2.22 %
 Rated torque : 2.98 ft.lb
 Locked rotor torque : 290 %
 Breakdown torque : 350 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 0.1172 sq.ft.lb
 Design : B

Locked rotor time : 32s (cold) 18s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 51.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 46.6 lb

Output	25%	50%	75%	100%
Efficiency (%)	78.4	80.0	84.0	85.5
Power Factor	0.31	0.55	0.68	0.75

Foundation loads

Max. traction : 67 lb
 Max. compression : 114 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
15.9	12.8	12.5	10.1	7.0	5.8	4.3

	Drive end	Non drive end
Bearing type	6205 ZZ	6204 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		Page 1 / 1 Revision		
Checked by				
Date	26/03/2024			