

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

11567895

Catalog # :

01112ET3Y160L-W22

Frame : 160L
Output : 15 HP (11 kW)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 22.6 A
L. R. Amperes : 147 A
LRC : 6.5
No load current : 9.50 A
Rated speed : 970 rpm
Slip : 3.00 %
Rated torque : 81.2 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 260 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 3.75 sq.ft.lb
Design : N

Locked rotor time : 34s (cold) 19s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : B3L(E)
Rotation¹ : Both (CW and CCW)
Noise level² : 57.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 339 lb

Output	50%	75%	100%
Efficiency (%)	85.5 86.5	90.3 90.0	90.3 90.5
	88.5	90.2	91.7
Power Factor	0.66 0.58	0.77 0.70	0.82 0.78
	0.60	0.71	0.77

Foundation loads
Max. traction : 919 lb
Max. compression : 1258 lb

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

Losses (%)	P1 (0,9;1,0)	10.4	10.1	8.7
	P2 (0,5;1,0)	8.4	8.2	7.1
	P3 (0,25;1,0)	8.0	7.8	6.7
	P4 (0,9;0,5)	5.9	5.8	5.0
	P5 (0,5;0,5)	4.0	3.9	3.4
	P6 (0,5;0,25)	3.1	3.0	2.6
	P7 (0,25;0,25)	2.1	2.1	1.8

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6309 C3	6209 C3
Sealing :	V'Ring	V'Ring
Lubrication interval :	20000 h	20000 h
Lubricant amount :	13 g	9 g
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		
Checked by				
Date	26/03/2024			
		Revision		