

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

16993584

Catalog # :

00709ET3E160LF3-W22

Frame : 160L
Output : 10 HP (7.5 kW)
Poles : 8
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 17.4 A
L. R. Amperes : 85.3 A
LRC : 4.9
No load current : 9.50 A
Rated speed : 720 rpm
Slip : 4.00 %
Rated torque : 72.9 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 210 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 3.75 sq.ft.lb
Design : N

Locked rotor time : 39s (cold) 22s (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 : B3T
Rotation¹ : Both (CW and CCW)
Noise level² : 51.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 309 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.3	86.3	87.8	86.2	88.5	88.0	87.5	87.5
	87.9		88.5		89.0		89.5	
Power Factor	0.32	0.26	0.56	0.49	0.68	0.61	0.75	0.70
	0.27		0.49		0.62		0.70	

Foundation loads
Max. traction : 708 lb
Max. compression : 1017 lb

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

Losses (%)	P1 (0,9;1,0)	13.8	13.8	11.3
	P2 (0,5;1,0)	11.8	11.8	9.7
	P3 (0,25;1,0)	11.5	11.5	9.5
	P4 (0,9;0,5)	8.1	8.1	6.7
	P5 (0,5;0,5)	6.1	6.1	5.0
	P6 (0,5;0,25)	4.8	4.8	4.0
	P7 (0,25;0,25)	3.7	3.7	3.1

		<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				
Checked by				
Date	26/03/2024			
			Page	Revision
			1 / 1	