

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

11564386

Catalog # :

11012ET3Y315S/M-W22

Frame : 315S/M
Output : 150 HP (110 kW)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 214 A
L. R. Amperes : 1284 A
LRC : 6.0
No load current : 72.0 A
Rated speed : 990 rpm
Slip : 1.00 %
Rated torque : 796 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 220 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 105 sq.ft.lb
Design : N

Locked rotor time : 57s (cold) 32s (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 : 67.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 2641 lb

Output	50%	75%	100%
Efficiency (%)	94.5 95.0	95.0 95.5	95.4 95.8
	95.0	95.8	95.8
Power Factor	0.71 0.64	0.80 0.76	0.82 0.80
	0.64	0.75	0.80

Foundation loads
Max. traction : 2957 lb
Max. compression : 5598 lb

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

Losses (%)	P1 (0,9;1,0)	5.0	4.5	4.5
	P2 (0,5;1,0)	3.7	3.3	3.3
	P3 (0,25;1,0)	3.0	2.7	2.7
	P4 (0,9;0,5)	3.0	2.7	2.7
	P5 (0,5;0,5)	1.9	1.7	1.7
	P6 (0,5;0,25)	1.5	1.4	1.4
	P7 (0,25;0,25)	0.9	0.8	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	13000 h	16000 h
Lubricant amount	:	45 g	34 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	