

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

11567172

Catalog # :

11018ET3Y280S/M-W22

Frame : 280S/M
Output : 150 HP (110 kW)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 206 A
L. R. Amperes : 1566 A
LRC : 7.6
No load current : 61.5 A
Rated speed : 1483 rpm
Slip : 1.13 %
Rated torque : 531 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 210 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 77.1 sq.ft.lb
Design : N

Locked rotor time : 48s (cold) 27s (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 : 69.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1808 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.0	94.9	95.2	95.3	95.3	95.8	95.4	96.1
	94.0		94.5		95.4		95.8	
Power Factor	0.53	0.47	0.77	0.72	0.83	0.80	0.85	0.84
	0.47		0.72		0.80		0.84	

Foundation loads
Max. traction : 2270 lb
Max. compression : 4078 lb

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

Losses (%)	P1 (0,9;1,0)	4.8	4.0	4.3
	P2 (0,5;1,0)	3.5	2.9	3.2
	P3 (0,25;1,0)	2.9	2.5	2.7
	P4 (0,9;0,5)	2.8	2.4	2.6
	P5 (0,5;0,5)	1.7	1.4	1.5
	P6 (0,5;0,25)	1.2	1.0	1.1
	P7 (0,25;0,25)	0.7	0.6	0.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6316 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	10000 h	10000 h
Lubricant amount	:	34 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	