

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

16993743

Catalog # :

02212ET3E200LF3-W22

Frame : 200L
Output : 30 HP (22 kW)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 43.4 A
L. R. Amperes : 269 A
LRC : 6.2
No load current : 18.2 A
Rated speed : 980 rpm
Slip : 2.00 %
Rated torque : 161 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 260 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 10.8 sq.ft.lb
Design : N

Locked rotor time : 32s (cold) 18s (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 : 60.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 529 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.3	90.8	92.5	91.4	92.7	92.4	92.7	92.9
	91.0		91.7		92.4		93.0	
Power Factor	0.42	0.36	0.68	0.61	0.78	0.73	0.83	0.79
	0.37		0.62		0.74		0.80	

Foundation loads
Max. traction : 1701 lb
Max. compression : 2230 lb

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

Losses (%)	P1 (0,9;1,0)	7.6	7.4	7.2
	P2 (0,5;1,0)	5.8	5.6	5.5
	P3 (0,25;1,0)	5.1	5.0	4.9
	P4 (0,9;0,5)	4.4	4.3	4.2
	P5 (0,5;0,5)	2.8	2.8	2.7
	P6 (0,5;0,25)	2.2	2.1	2.1
	P7 (0,25;0,25)	1.4	1.4	1.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 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	