

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE2 Three-Phase

Product code :

14420337

Catalog # :

E03018EP3Y200LF3-W22

Frame : 200L
Output : 30 kW (40 HP)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380/660 V
Rated current : 59.5/34.3 A
L. R. Amperes : 363/209 A
LRC : 6.1
No load current : 21.6/12.4 A
Rated speed : 1470 rpm
Slip : 2.00 %
Rated torque : 144 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 6.95 sq.ft.lb
Design : N

Locked rotor time : 19s (cold) 11s (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 : 65.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 522 lb

Output	25%		50%		75%		100%	
Efficiency (%)	91.8	91.9	92.0	92.1	92.3	92.4	92.3	92.4
	91.9	92.3	92.0	92.4	92.4	93.0	92.4	93.0
Power Factor	0.44	0.40	0.68	0.64	0.78	0.75	0.83	0.81
	0.37	0.38	0.61	0.61	0.73	0.74	0.79	0.81

Foundation loads
Max. traction : 968 lb
Max. compression : 1490 lb

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

Losses (%)	P1 (0,9;1,0)	8.2	8.0	8.0	7.4
	P2 (0,5;1,0)	7.3	7.2	7.2	6.6
	P3 (0,25;1,0)	7.0	6.9	6.9	6.3
	P4 (0,9;0,5)	3.7	3.6	3.6	3.3
	P5 (0,5;0,5)	2.7	2.6	2.6	2.4
	P6 (0,5;0,25)	1.7	1.7	1.7	1.5
	P7 (0,25;0,25)	1.2	1.2	1.2	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6312 ZZ C3	6212 ZZ C3
Sealing :		V'Ring	V'Ring
Lubrication interval :		-	-
Lubricant amount :		-	-
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 IEC 60034-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 2 Revision		
Checked by				
Date	26/03/2024			

Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	26/03/2024				