

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE2 Three-Phase

Product code : 14420489  
Catalog # : E03036EP3Y200LF3-W22

Frame	: 200L	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 30 kW (40 HP)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.
Rated current	: 56.9/32.8 A	Protection degree	: IP55
L. R. Amperes	: 381/219 A	Cooling method	: IC411 - TEFC
LRC	: 6.7	Mounting	: B3T
No load current	: 18.0/10.4 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 2960 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 71.4 ft.lb	Approx. weight <sup>3</sup>	: 540 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 4.04 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	90.8	90.8	91.0	91.0	92.0	92.0	92.0	92.0	Max. traction	: 569 lb
	90.3	89.8	90.5	90.0	92.0	91.7	92.0	91.7		
Power Factor	0.51	0.47	0.76	0.72	0.84	0.81	0.87	0.85	Max. compression	: 1109 lb
	0.43	0.45	0.67	0.70	0.78	0.79	0.83	0.84		

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

Losses (%)	P1 (0,9;1,0)	7.7	7.4	7.3	7.3
	P2 (0,5;1,0)	6.5	6.2	6.1	6.1
	P3 (0,25;1,0)	6.0	5.7	5.6	5.6
	P4 (0,9;0,5)	3.6	3.5	3.4	3.4
	P5 (0,5;0,5)	2.3	2.2	2.2	2.2
	P6 (0,5;0,25)	1.4	1.3	1.3	1.3
	P7 (0,25;0,25)	0.9	0.9	0.9	0.9

		<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.

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Customer :

Thermal protection

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

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