

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE2 Three-Phase

Product code : 14427630  
Catalog # : E15012EP3Y355MLF3-W2

Frame	: 355M/L	Locked rotor time	: 63s (cold) 35s (hot)
Output	: 150 kW (200 HP)	Temperature rise	: 80 K
Poles	: 6	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	: 297/171 A	Protection degree	: IP55
L. R. Amperes	: 1604/923 A	Cooling method	: IC411 - TEFC
LRC	: 5.4	Mounting	: B3T
No load current	: 120/69.1 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 992 rpm	Noise level <sup>2</sup>	: 73.0 dB(A)
Slip	: 0.80 %	Starting method	: Direct On Line
Rated torque	: 1070 ft.lb	Approx. weight <sup>3</sup>	: 2956 lb
Locked rotor torque	: 160 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 176 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.4	93.7	94.5	94.2	94.8	94.5	94.8	95.0	Max. traction	: 3122 lb
	93.2	93.0	93.8	93.4	94.4	94.7	95.0	95.0		
Power Factor	0.43	0.39	0.69	0.64	0.77	0.74	0.81	0.79	Max. compression	: 6077 lb
	0.36	0.36	0.61	0.59	0.71	0.71	0.76	0.77		

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

Losses (%)	P1 (0,9;1,0)	5.4	5.2	5.2	5.2
	P2 (0,5;1,0)	4.0	3.9	3.9	3.9
	P3 (0,25;1,0)	3.4	3.2	3.2	3.2
	P4 (0,9;0,5)	3.2	3.1	3.1	3.1
	P5 (0,5;0,5)	2.0	1.9	1.9	1.9
	P6 (0,5;0,25)	1.5	1.5	1.5	1.5
	P7 (0,25;0,25)	0.9	0.9	0.9	0.9

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	13000 h	16000 h
Lubricant amount	:	60 g	45 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 IEC 60034-1.

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

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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				