

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14597848

Frame	: 315S/M	Locked rotor time	: 113s (cold) 63s (hot)
Output	: 175 HP (132 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 154 A	Protection degree	: IP55
L. R. Amperes	: 1266 A	Cooling method	: IC411 - TEFC
LRC	: 8.2	Mounting	: B3R(D)
No load current	: 40.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3582 rpm	Noise level <sup>2</sup>	: 81.0 dB(A)
Slip	: 0.50 %	Starting method	: VFD
Rated torque	: 35.5 kgfm	Approx. weight <sup>3</sup>	: 1048 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.56 kgm <sup>2</sup>		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	93.6	94.5	95.4	Max. traction	: 369 kgf
Power Factor	0.00	0.82	0.88	0.90	Max. compression	: 1417 kgf

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.6	2.7	2.0	3.2	1.5	1.2	0.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 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.

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# LOAD PERFORMANCE CURVE

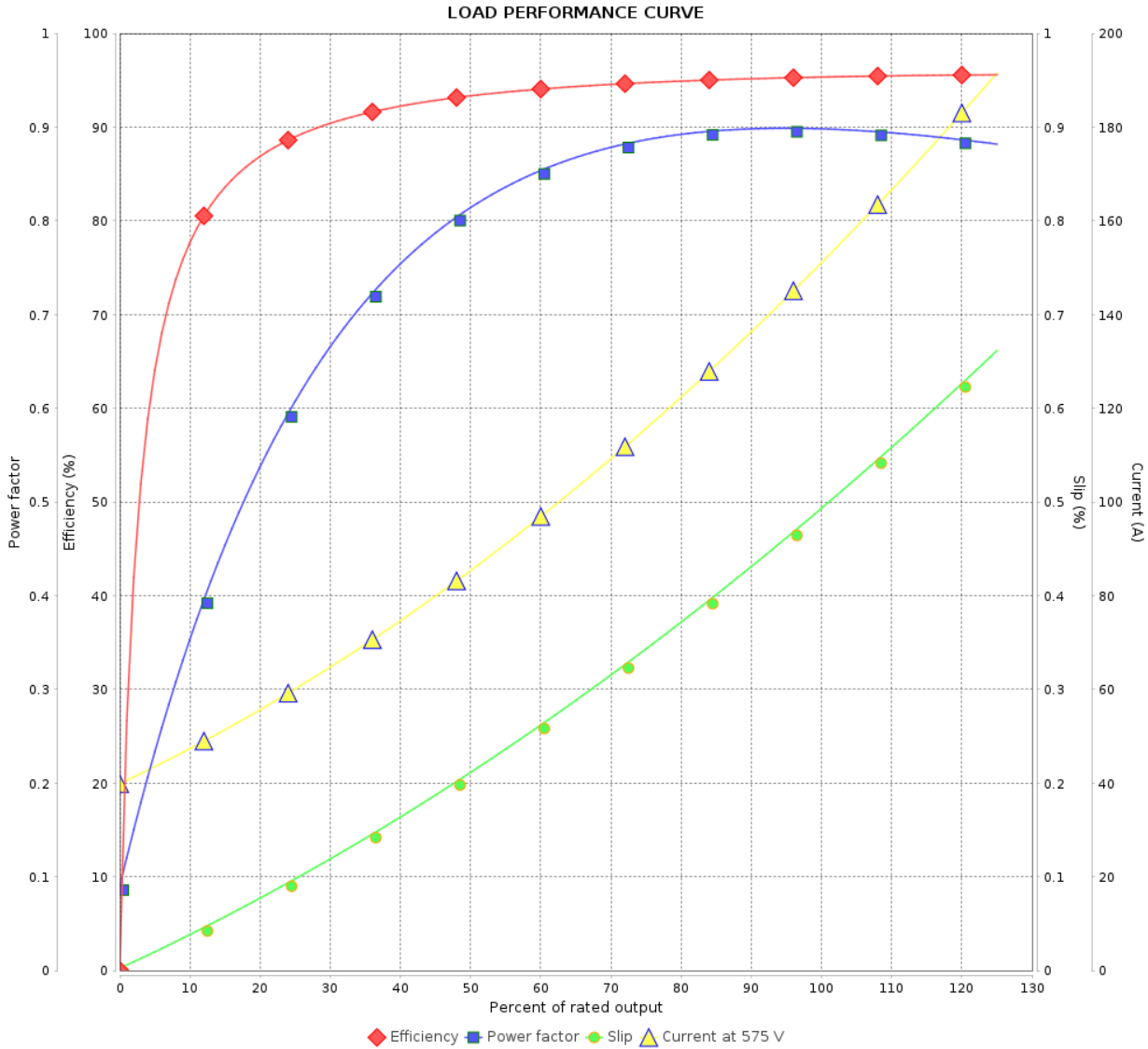
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 14597848



Performance : 575 V 60 Hz 2P

Rated current	: 154 A	Moment of inertia (J)	: 2.56 kgm <sup>2</sup>
LRC	: 8.2	Duty cycle	: S1
Rated torque	: 35.5 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 3582 rpm	Design	: N

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