

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12761144

Frame	: 180L	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 28.8 A	Protection degree	: IP55
L. R. Amperes	: 274 A	Cooling method	: IC411 - TEFC
LRC	: 9.5	Mounting	: B35L(E)
No load current	: 13.4 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1778 rpm	Noise level <sup>2</sup>	: 63.0 dB(A)
Slip	: 1.22 %	Starting method	: Direct On Line
Rated torque	: 12.2 kgfm	Approx. weight <sup>3</sup>	: 206 kg
Locked rotor torque	: 360 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2272 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	92.4	93.6	Max. traction	: 564 kgf
Power Factor	0.65	0.76	0.82	Max. compression	: 769 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)
6.5	5.0	4.4	3.8	2.4	1.8	1.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 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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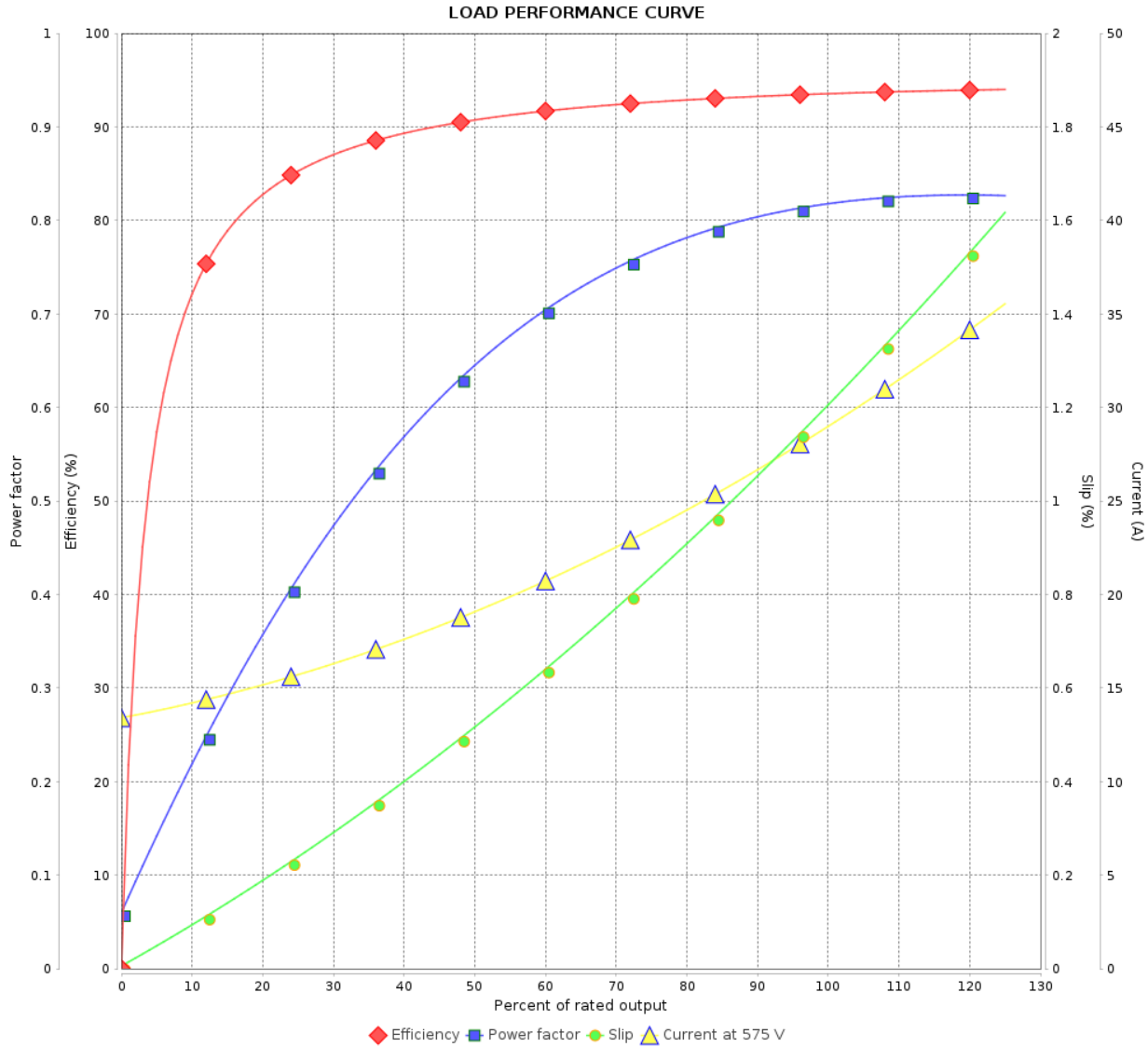
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12761144



Performance : 575 V 60 Hz 4P

Rated current	: 28.8 A	Moment of inertia (J)	: 0.2272 kgm <sup>2</sup>
LRC	: 9.5	Duty cycle	: S1
Rated torque	: 12.2 kgfm	Insulation class	: F
Locked rotor torque	: 360 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1778 rpm	Design	: N

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