

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12036435

Frame	: 160L	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 25 HP (18.5 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	: 24.5 A	Protection degree	: IPW55
L. R. Amperes	: 179 A	Cooling method	: IC411 - TEFC
LRC	: 7.3	Mounting	: B3R(D)
No load current	: 11.4 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level <sup>2</sup>	: 64.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 10.2 kgfm	Approx. weight <sup>3</sup>	: 155 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1154 kgm <sup>2</sup>		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	92.4	93.6	93.6	Max. traction : 421 kgf
Power Factor	0.00	0.64	0.75	0.81	Max. compression : 576 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)
7.4	5.9	5.3	3.9	2.5	1.7	1.1

	Drive end	Non drive end
Bearing type	: 6309 C3	6209 C3
Sealing	: V'Ring	V'Ring
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 13 g	9 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 2		
Checked by				
Date	25/10/2024			

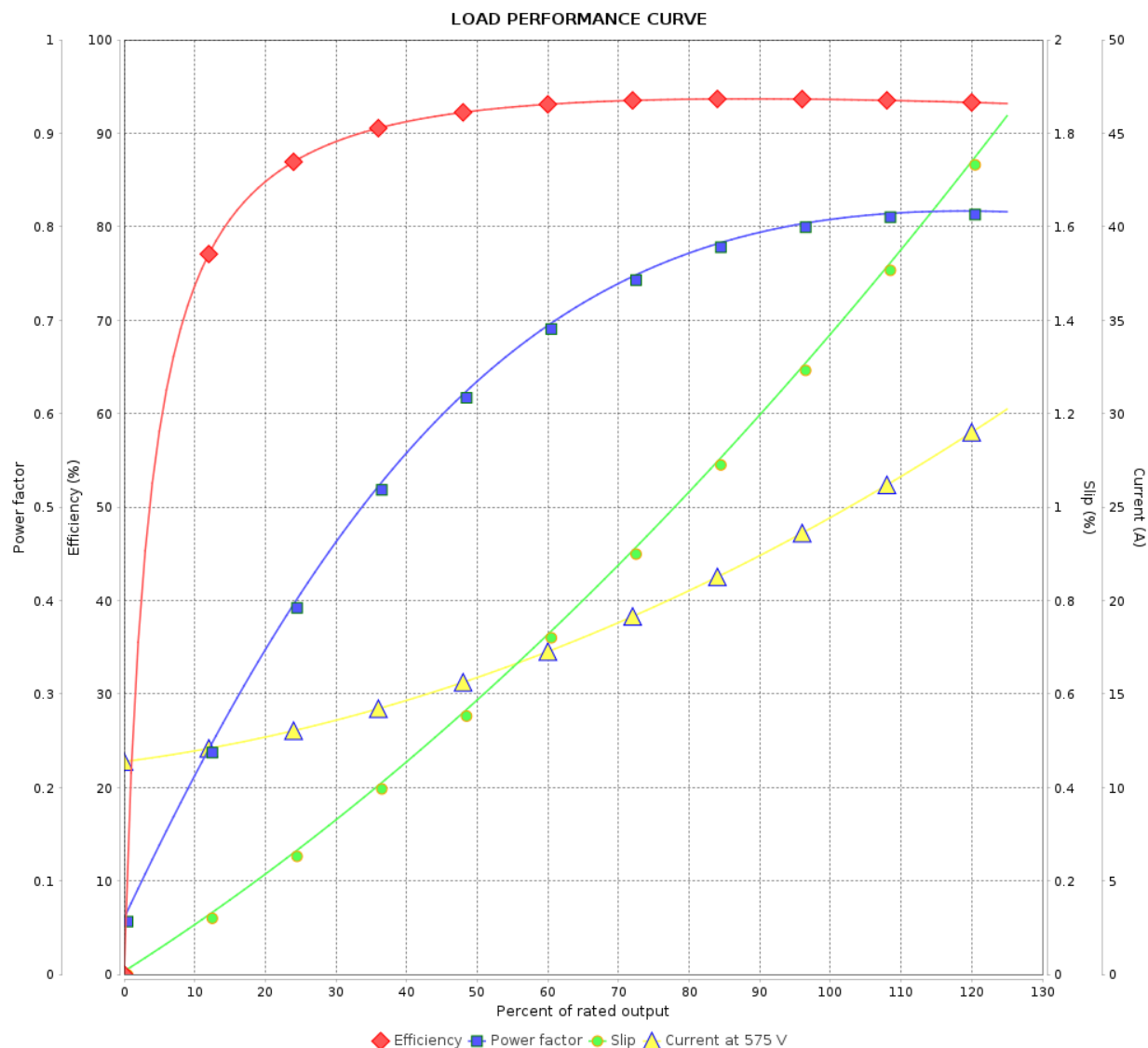
# LOAD PERFORMANCE CURVE

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Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12036435



Performance : 575 V 60 Hz 4P

Rated current : 24.5 A  
LRC : 7.3  
Rated torque : 10.2 kgfm  
Locked rotor torque : 280 %  
Breakdown torque : 310 %  
Rated speed : 1775 rpm

Moment of inertia (J) : 0.1154 kgm<sup>2</sup>  
Duty cycle : S1  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : N

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