

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12630174

Frame	: 160L	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 15.8 A	Protection degree	: IP55
L. R. Amperes	: 127 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B35L(E)
No load current	: 9.28 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1181 rpm	Noise level ²	: 59.0 dB(A)
Slip	: 1.58 %	Vibration	: A
Rated torque	: 9 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 300 %	Approx. weight ³	: 143 kg
Breakdown torque	: 340 %	Painting plan	: 203A (ISO 12944 - C3)
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.25	Design	: N
Moment of inertia (J)	: 0.1580 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	88.5	90.2	91.7	Max. traction	: 422 kgf
Power Factor	0.57	0.69	0.76	Max. compression	: 565 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)
8.8	7.1	6.6	5.2	3.5	2.8	1.9

	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	04/10/2026			

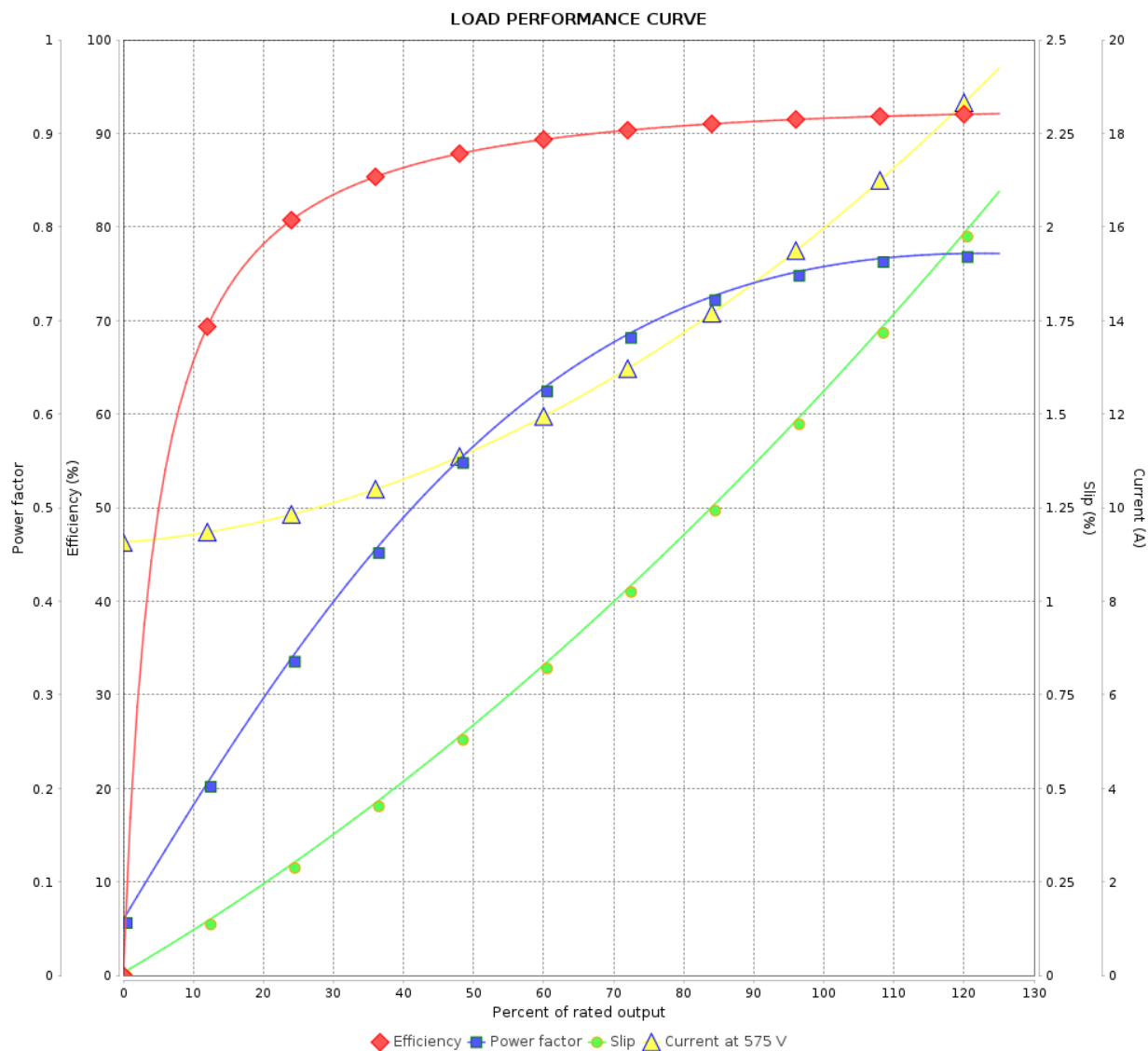
LOAD PERFORMANCE CURVE

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Performance : 575 V 60 Hz 6P

Rated current : 15.8 A
LRC : 8.0
Rated torque : 9 kgfm
Locked rotor torque : 300 %
Breakdown torque : 340 %
Rated speed : 1181 rpm

Moment of inertia (J) : 0.1580 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : N

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