DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru Metric - IE3 Nema Premium Efficiency
Product code : 11989184

Frame	: 180M
Output	: 30 HP (22 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 28.2 A
L. R. Amperes	: 273 A
LRC	: 9.7 Code L
No load current	: 11.2 A
Rated speed	: 3565 rpm
Slip	: 0.97 %
Rated torque	: 6.11 kgfm
Locked rotor torque	: 380 %
Pull up torque	: 220 %
Breakdown torque	: 380 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.1192 kgm²

Locked rotor time	: 11 s (hot) 20 s (cold)
Temperature rise[4]	: 80 K
Duty cycle	: Cont.(S1)
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: B35L(E)
Rotation[1]	: Both
Noise level[2]	: 72 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 176 kg
Design	: N

Output	Start	50%	75%	100%
Efficiency (%)	-	90.2	91.7	92.4
Power Factor	0.46	0.71	0.81	0.85

Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

	Drive end	Non drive end
Bearing type	6311-C3	6211-C3
Lubrication interval	14000 h	17000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 240 kgf
Max. compression : 416 kgf

Notes:

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)
7.69	5.51	4.80	4.71	2.69	2.03	1.21

Standards

Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Test	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

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 +0dB(A).
(3) Approximate weight, subject to be changed 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
				2026/11/11

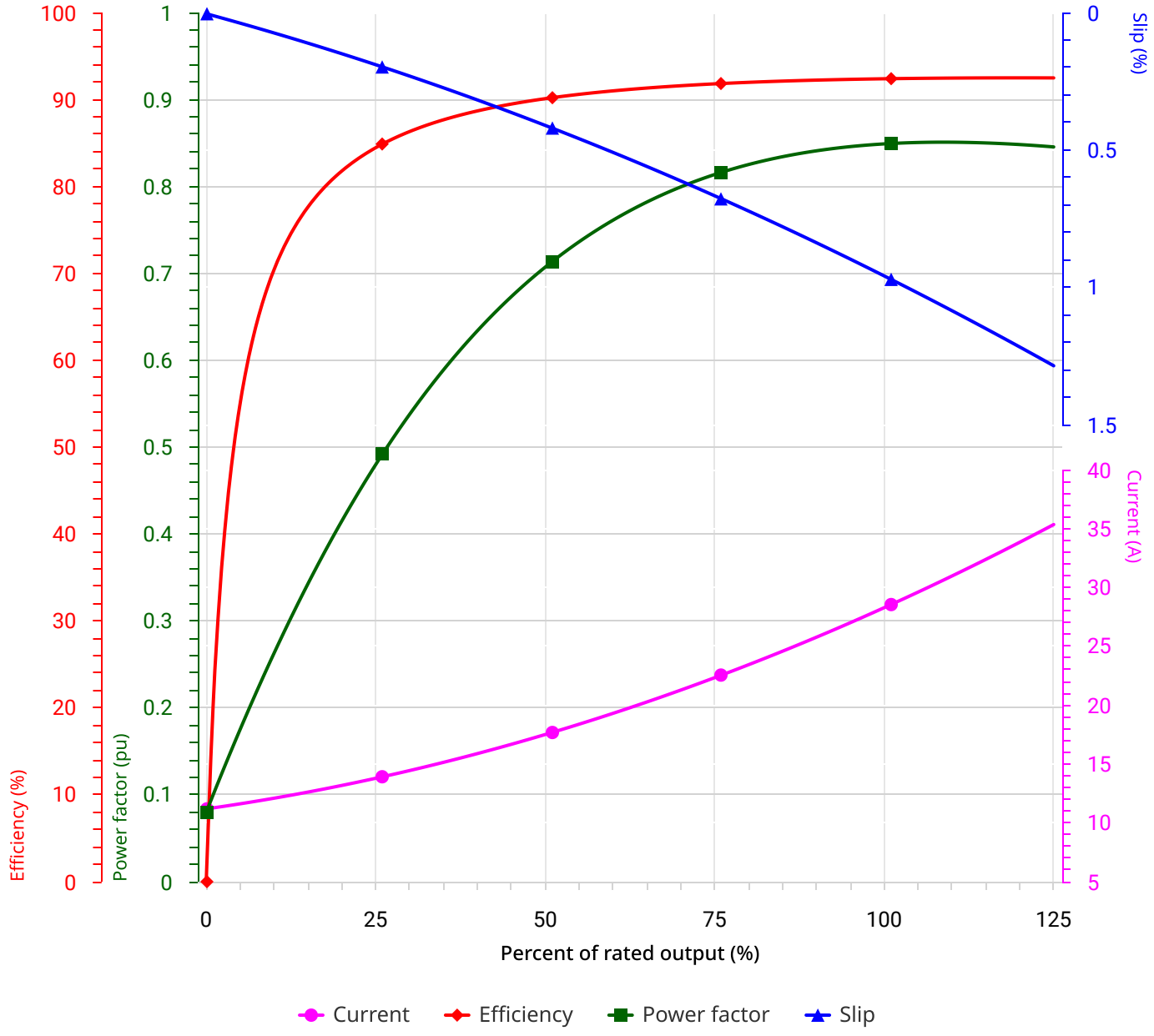
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LOAD PERFORMANCE CURVE

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Customer	:
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Product code	: 11989184



Performance	: 30 HP (22 kW) 575V 60Hz 2P 180M

Rated current	: 28.2 A	Moment of inertia (J)	: 0.1192 kgm²
LRC	: 9.7 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 6.11 kgfm	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3565 rpm	Design	: N

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