DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency
Product code	: 12761144

Frame	: 180L	Locked rotor time	: 18 s (hot) 32 s (cold)
Output	: 30 HP (22 kW)	Temperature rise[4]	: 80 K
Poles	: 4	Duty cycle	: Cont.(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 Code L	Mounting	: B35L(E)
No load current	: 13.4 A	Rotation[1]	: Both
Rated speed	: 1778 rpm	Noise level[2]	: 63 dB(A)
Slip	: 1.22 %	Starting method	: Direct On Line
Rated torque	: 12.2 kgfm	Approx. weight[3]	: 198 kg
Locked rotor torque	: 360 %	Design	: N
Pull up torque	: 295 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2272 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	91.0	92.4	93.6
Power Factor	0.50	0.65	0.76	0.82

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

	Drive end	Non drive end
Bearing type	6311-C3	6211-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 559 kgf
Max. compression	: 757 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)
6.54	5.01	4.42	3.81	2.43	1.83	1.19

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

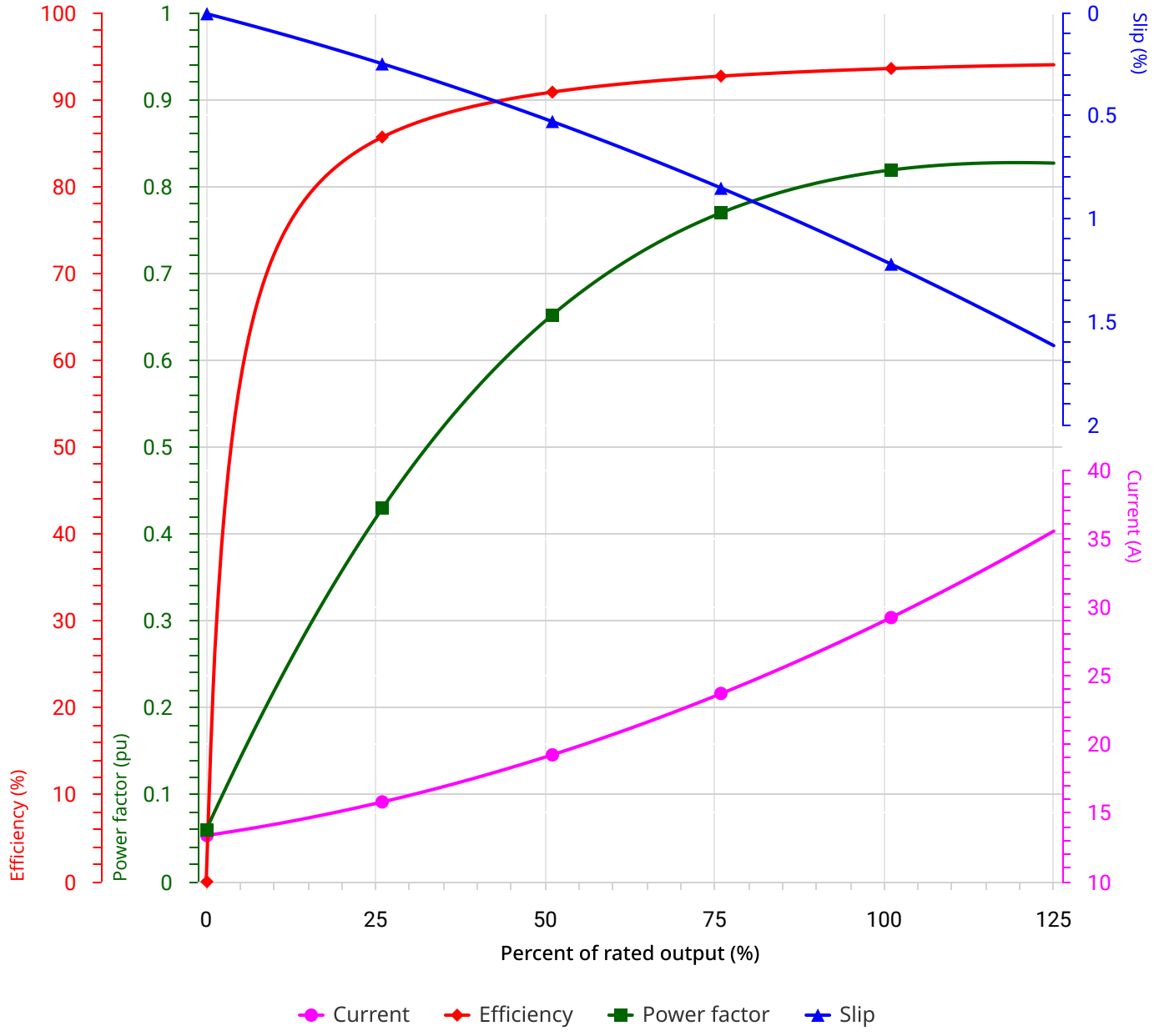
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency
Product code	: 12761144



Performance	: 30 HP (22 kW) 575V 60Hz 4P 180L

Rated current	: 28.8 A	Moment of inertia (J)	: 0.2272 kgm²
LRC	: 9.5 Code L	Duty cycle	: Cont.(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

Rev.	Changes Summary	Performed	Checked	Date
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