DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 160L	Locked rotor time	: 22 s (hot) 40 s (cold)
Output	: 20 HP (15 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	: 20.0 A	Protection degree	: IP55
L. R. Amperes	: 166 A	Cooling method	: IC411 - TEFC
LRC	: 8.3 Code K	Mounting	: B35L(E)
No load current	: 8.80 A	Rotation[1]	: Both
Rated speed	: 1778 rpm	Noise level[2]	: 64 dB(A)
Slip	: 1.22 %	Starting method	: Direct On Line
Rated torque	: 8.16 kgfm	Approx. weight[3]	: 145 kg
Locked rotor torque	: 300 %	Design	: N
Pull up torque	: 280 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1214 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	91.0	91.7	93.0
Power Factor	0.55	0.62	0.74	0.81

	Drive end	Non drive end
Bearing type	6309-C3	6209-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	9 g
Lubricant type	MOBIL POLYREX EM	

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

Foundation loads
Max. traction : 346 kgf
Max. compression : 491 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)
7.18	5.52	4.94	4.17	2.65	1.99	1.29

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
				2026/11/12

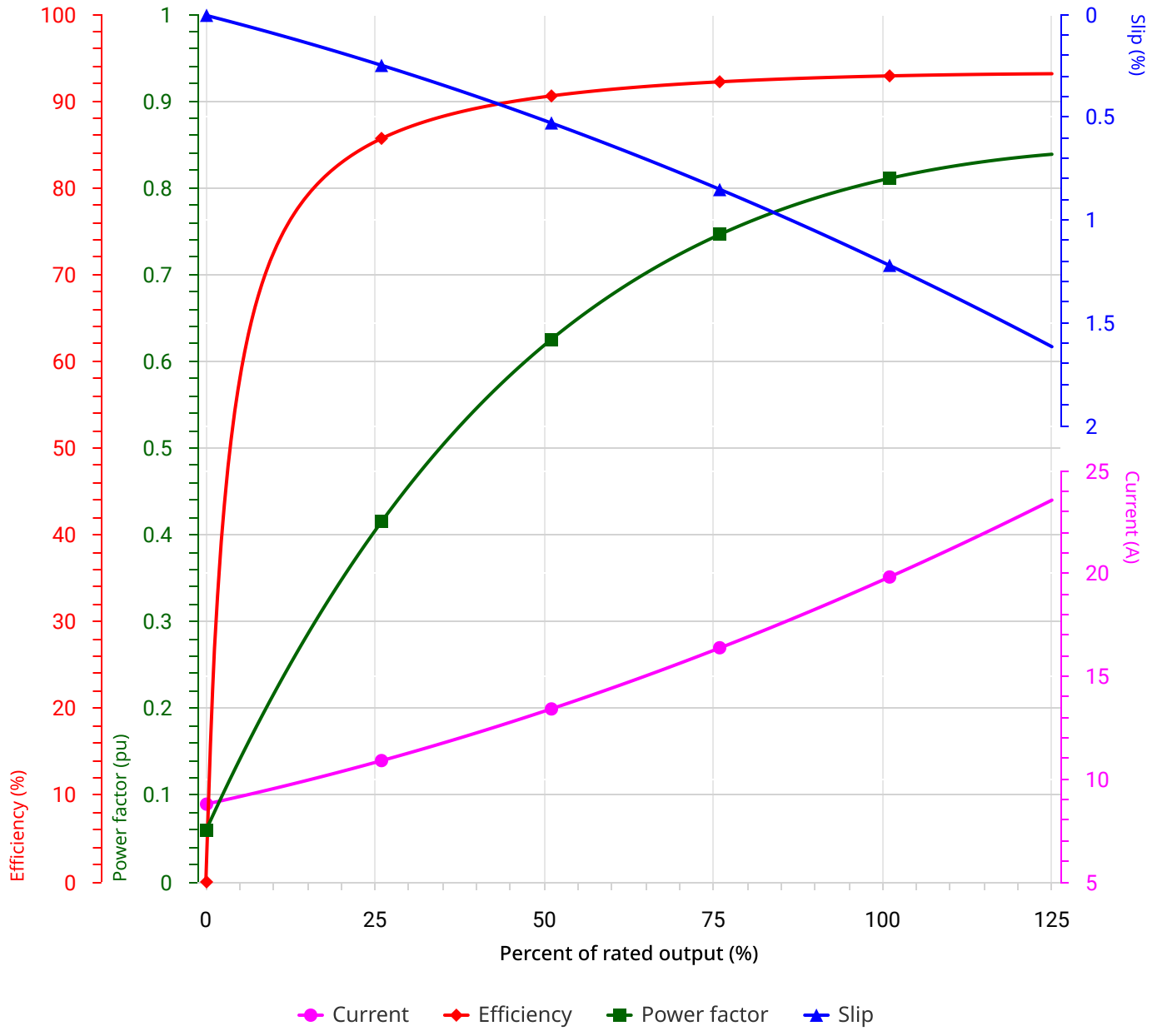
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 20 HP (15 kW) 575V 60Hz 4P 160L

Rated current	: 20.0 A	Moment of inertia (J)	: 0.1214 kgm²
LRC	: 8.3 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 8.16 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1778 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
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