DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)

Frame	: 364/5TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B34R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 394 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.9448 kgm²
Design	: B		

Output		60 HP (45 kW)	60 HP (45 kW)
Poles		4	4
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		143/71.6 A	86.5 A
L. R. Amperes		917/458 A	450 A
LRC		6.4 Code G	5.2 Code E
No load current		56.0/28.0 A	27.6 A
Rated speed		1780 rpm	1470 rpm
Slip		1.11 %	2.00 %
Rated torque		24.5 kgfm	29.6 kgfm
Locked rotor torque		210 %	160 %
Breakdown torque		240 %	200 %
Service factor		1.25	1.00
Temperature rise		80 K	105 K
Noise level		67 dB(A)	63 dB(A)
Locked rotor time		15 s (hot) 27 s (cold)	10 s (hot) 18 s (cold)
Efficiency (%)	50%	94.1	94.1
	75%	94.5	93.6
	100%	95.0	93.0
Power Factor	Start	0.40	0.40
	50%	0.69	0.76
	75%	0.79	0.82
	100%	0.83	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		5.07	5.47
P2 (0,5;1,0)		4.08	4.40
P3 (0,25;1,0)		3.81	4.10
P4 (0,9;0,5)		2.61	2.82
P5 (0,5;0,5)		1.71	1.84
P6 (0,5;0,25)		1.17	1.26
P7 (0,25;0,25)		0.77	0.83

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	12000 h	12000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 461 kgf
Max. compression : 855 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/12

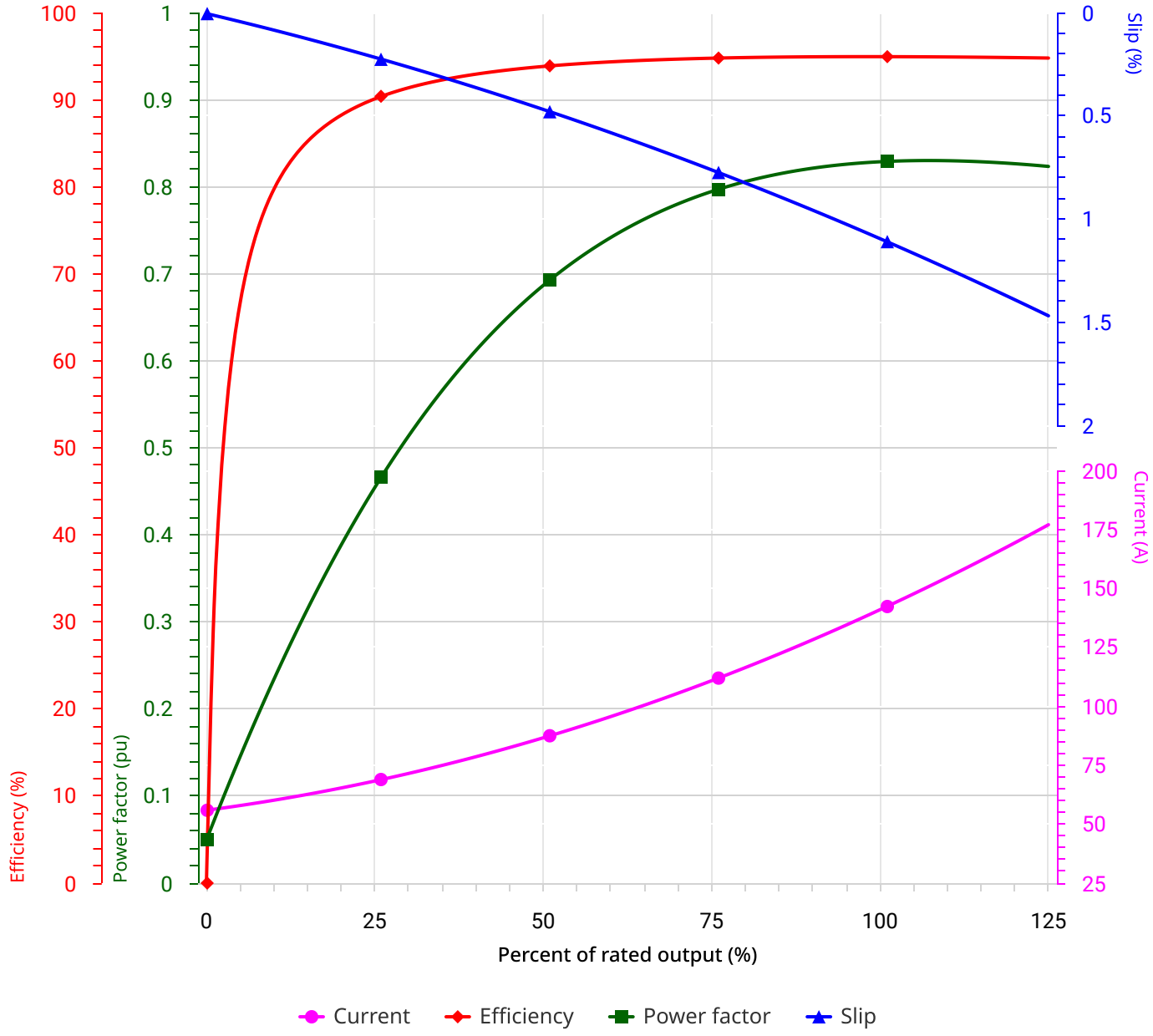
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)



Performance	: 60 HP (45 kW) 208/230/460V 60Hz 4P 364/5TC

Rated current	: 151/143/71.6 A	Moment of inertia (J)	: 0.9448 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 24.5 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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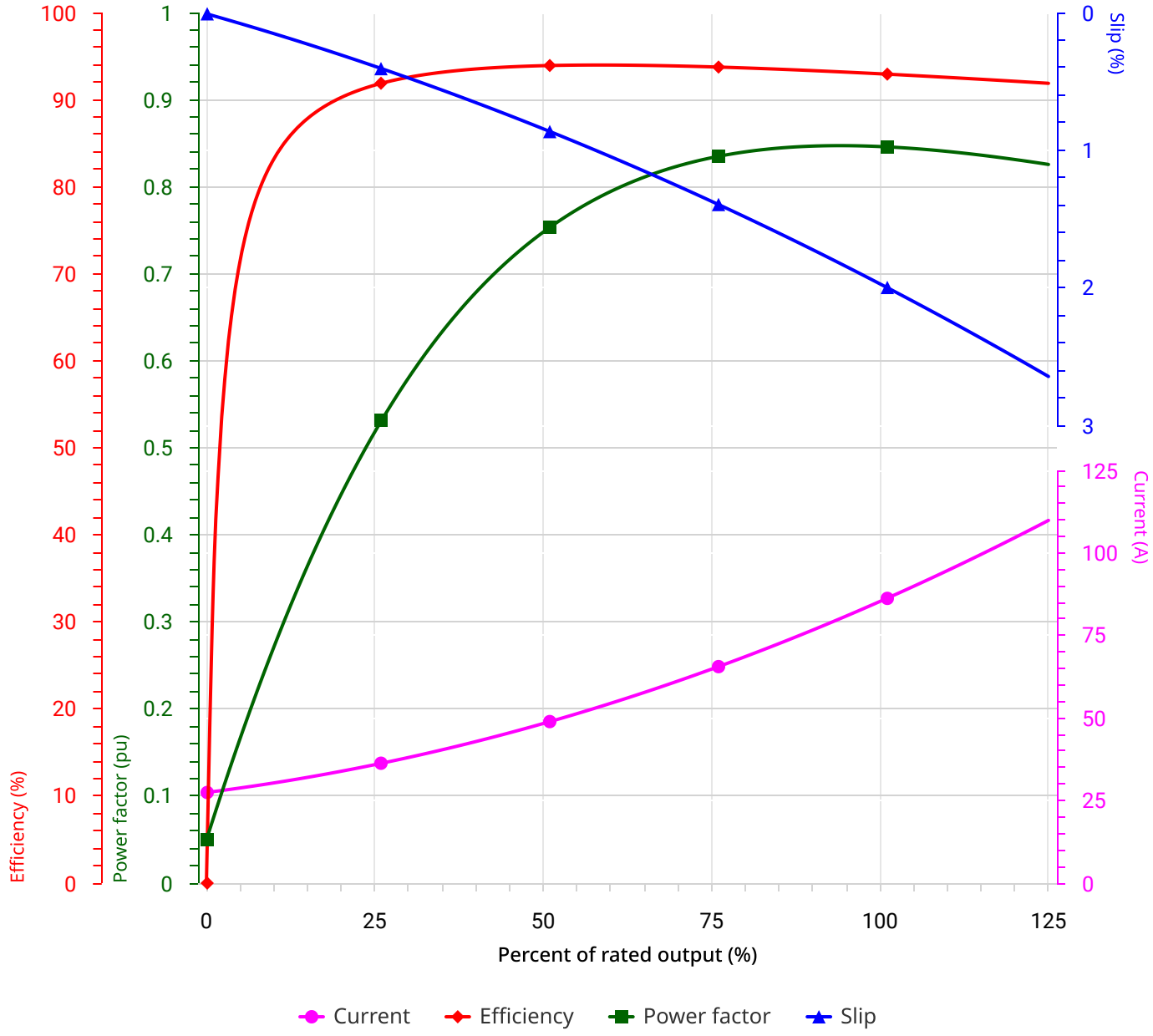
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)



Performance	: 60 HP (45 kW) 380V 50Hz 4P 364/5TC

Rated current	: 86.5 A	Moment of inertia (J)	: 0.9448 kgm²
LRC	: 5.2 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 29.6 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B

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