DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 364/5TSC	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	: 374 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.4485 kgm²
Design	: B		

Output		60 HP (45 kW)	60 HP (45 kW)
Poles		2	2
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		136/67.8 A	83.1 A
L. R. Amperes		895/447 A	432 A
LRC		6.6 Code G	5.2 Code E
No load current		34.0/17.0 A	16.6 A
Rated speed		3555 rpm	2935 rpm
Slip		1.25 %	2.17 %
Rated torque		12.2 kgfm	14.8 kgfm
Locked rotor torque		200 %	160 %
Breakdown torque		260 %	200 %
Service factor		1.25	1.00
Temperature rise		80 K	105 K
Noise level		79 dB(A)	74 dB(A)
Locked rotor time		12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)
Efficiency (%)	50%	92.7	92.4
	75%	93.6	93.0
	100%	93.6	92.4
Power Factor	Start	0.37	0.37
	50%	0.81	0.85
	75%	0.87	0.88
	100%	0.89	0.89
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		6.33	7.61
P2 (0,5;1,0)		4.70	5.66
P3 (0,25;1,0)		4.41	5.30
P4 (0,9;0,5)		3.31	3.98
P5 (0,5;0,5)		1.79	2.15
P6 (0,5;0,25)		1.11	1.34
P7 (0,25;0,25)		0.61	0.74

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	4000 h	4000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 167 kgf
Max. compression : 541 kgf

Notes:

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

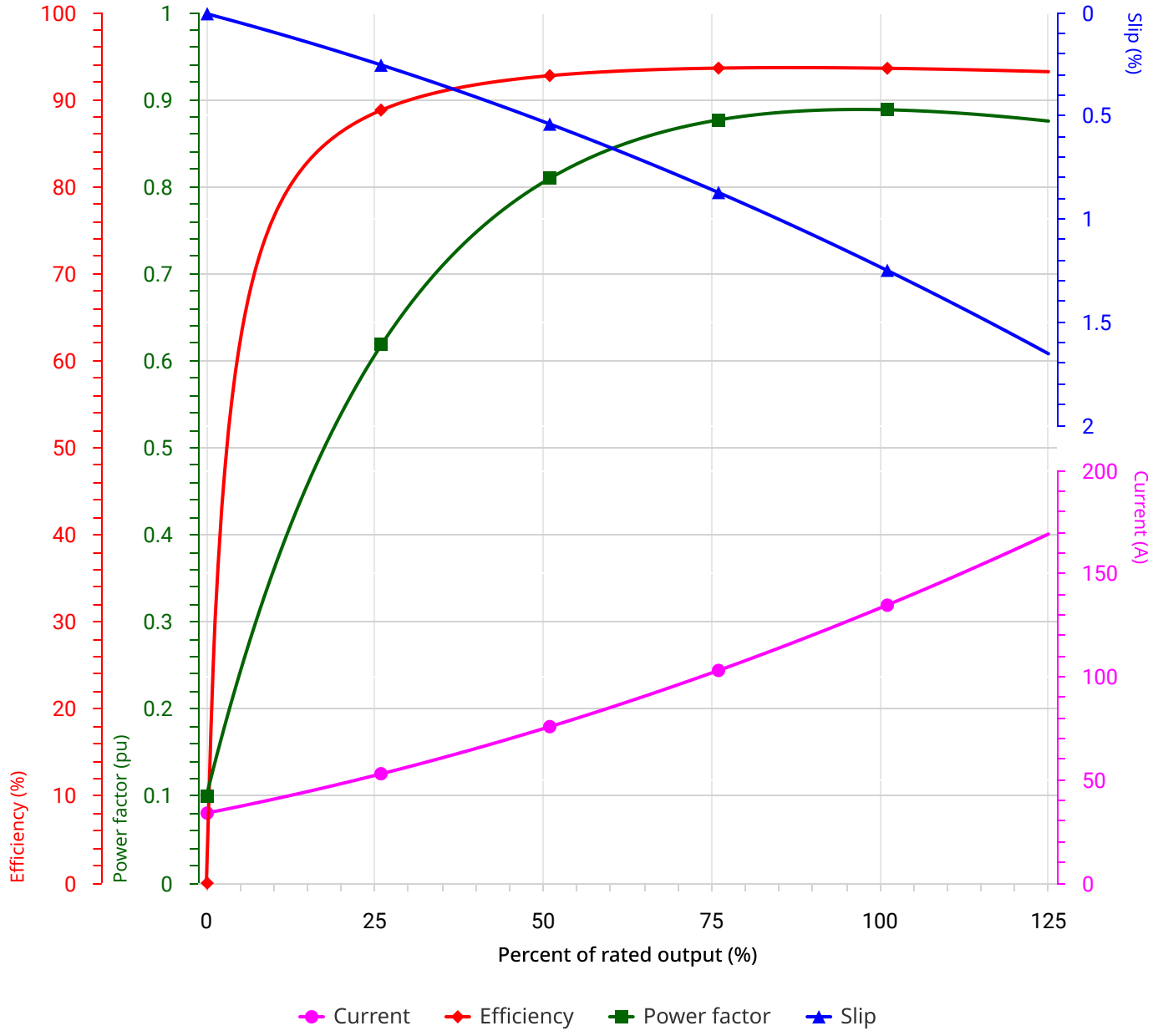
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 60 HP (45 kW) 208/230/460V 60Hz 2P 364/5TSC

Rated current	: 148/136/67.8 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 12.2 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

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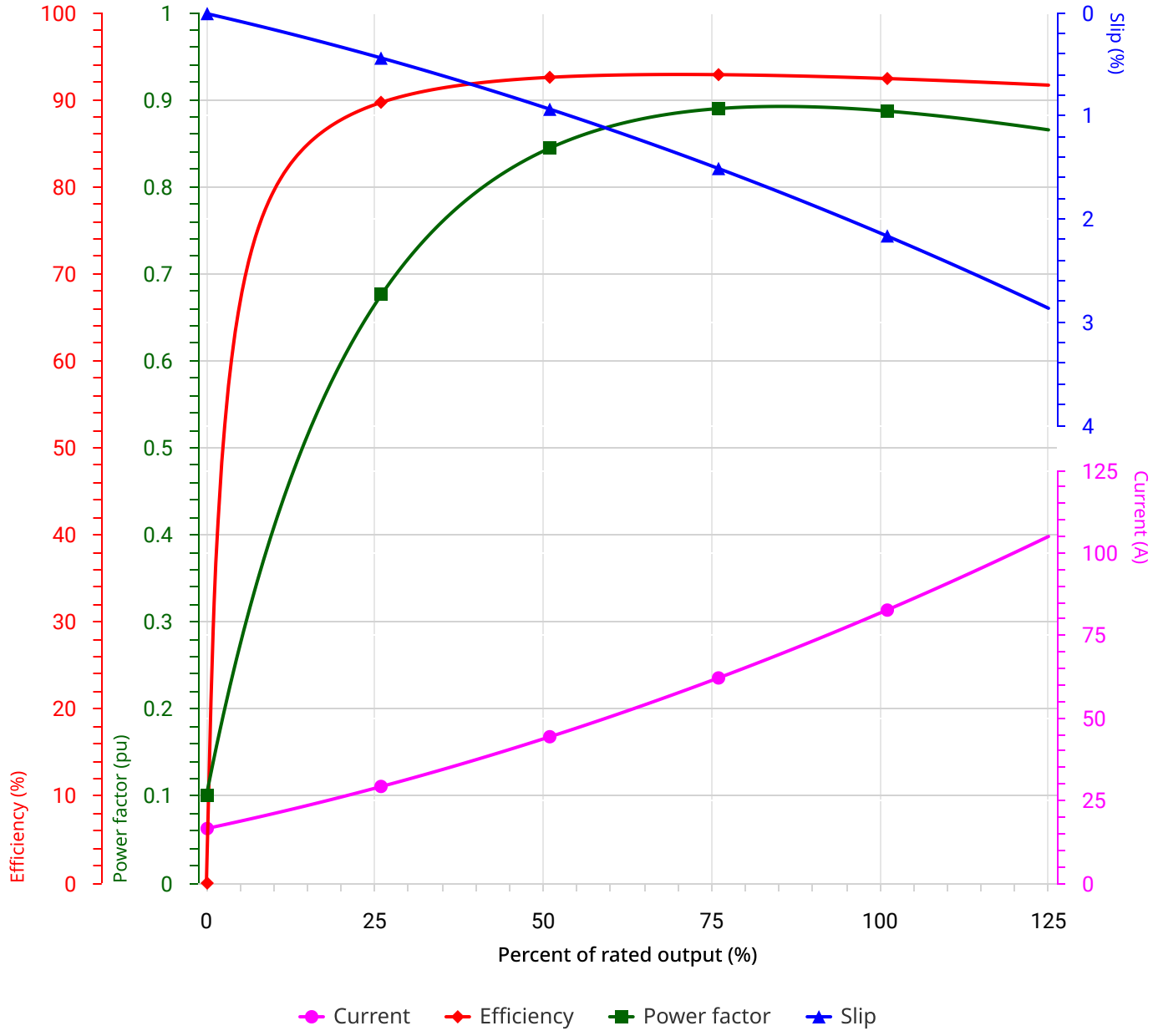
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Three Phase Induction Motor - Squirrel Cage

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



Performance	: 60 HP (45 kW) 380V 50Hz 2P 364/5TSC

Rated current	: 83.1 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 5.2 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 14.8 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2935 rpm	Design	: B

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