DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 182/4T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 42.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0095 kgm²
Design	: A		

Output		7.5 HP (5.5 kW)	7.5 HP (5.5 kW)
Poles		2	2
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		17.5/8.76 A	10.9 A
L. R. Amperes		144/71.8 A	68.7 A
LRC		8.2 Code J	6.3 Code G
No load current		5.80/2.90 A	2.70 A
Rated speed		3485 rpm	2810 rpm
Slip		3.19 %	6.33 %
Rated torque		1.56 kgfm	1.94 kgfm
Locked rotor torque		270 %	220 %
Breakdown torque		330 %	260 %
Service factor		1.25	1.00
Temperature rise		80 K	80 K
Noise level		66 dB(A)	62 dB(A)
Locked rotor time		17 s (hot) 31 s (cold)	16 s (hot) 29 s (cold)
Efficiency (%)	50%	88.5	87.0
	75%	89.5	87.0
	100%	89.5	84.5
Power Factor	Start	0.57	0.57
	50%	0.75	0.80
	75%	0.84	0.88
	100%	0.88	0.91
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		11.37	11.37
P2 (0,5;1,0)		9.44	9.44
P3 (0,25;1,0)		8.68	8.68
P4 (0,9;0,5)		5.32	5.32
P5 (0,5;0,5)		3.43	3.43
P6 (0,5;0,25)		2.08	2.08
P7 (0,25;0,25)		1.33	1.33

	Drive end	Non drive end
Bearing type	6207-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 86 kgf
Max. compression : 128 kgf

Notes:

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

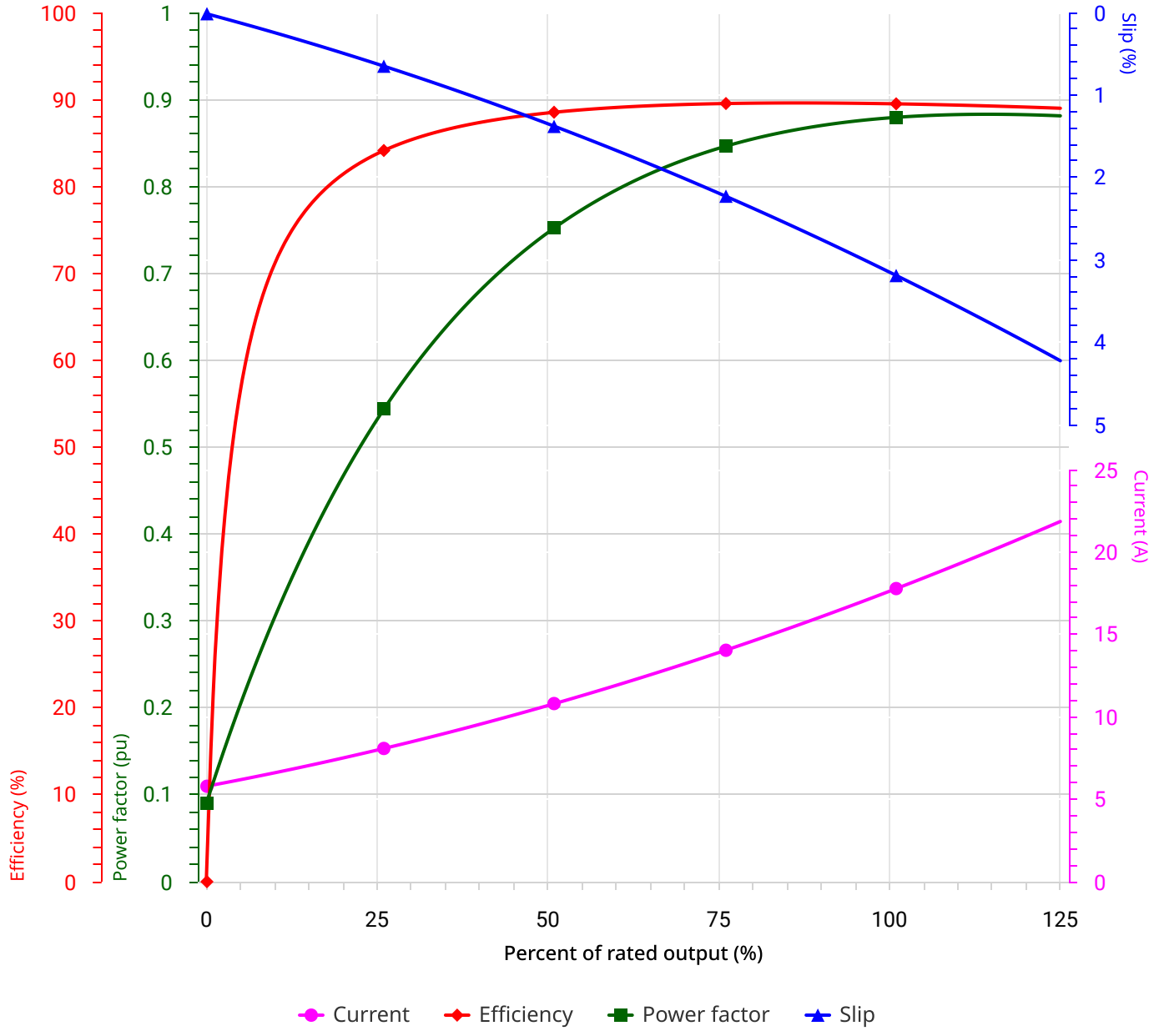
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 2P 182/4T

Rated current	: 19.4/17.5/8.76 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 8.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.56 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3485 rpm	Design	: A

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

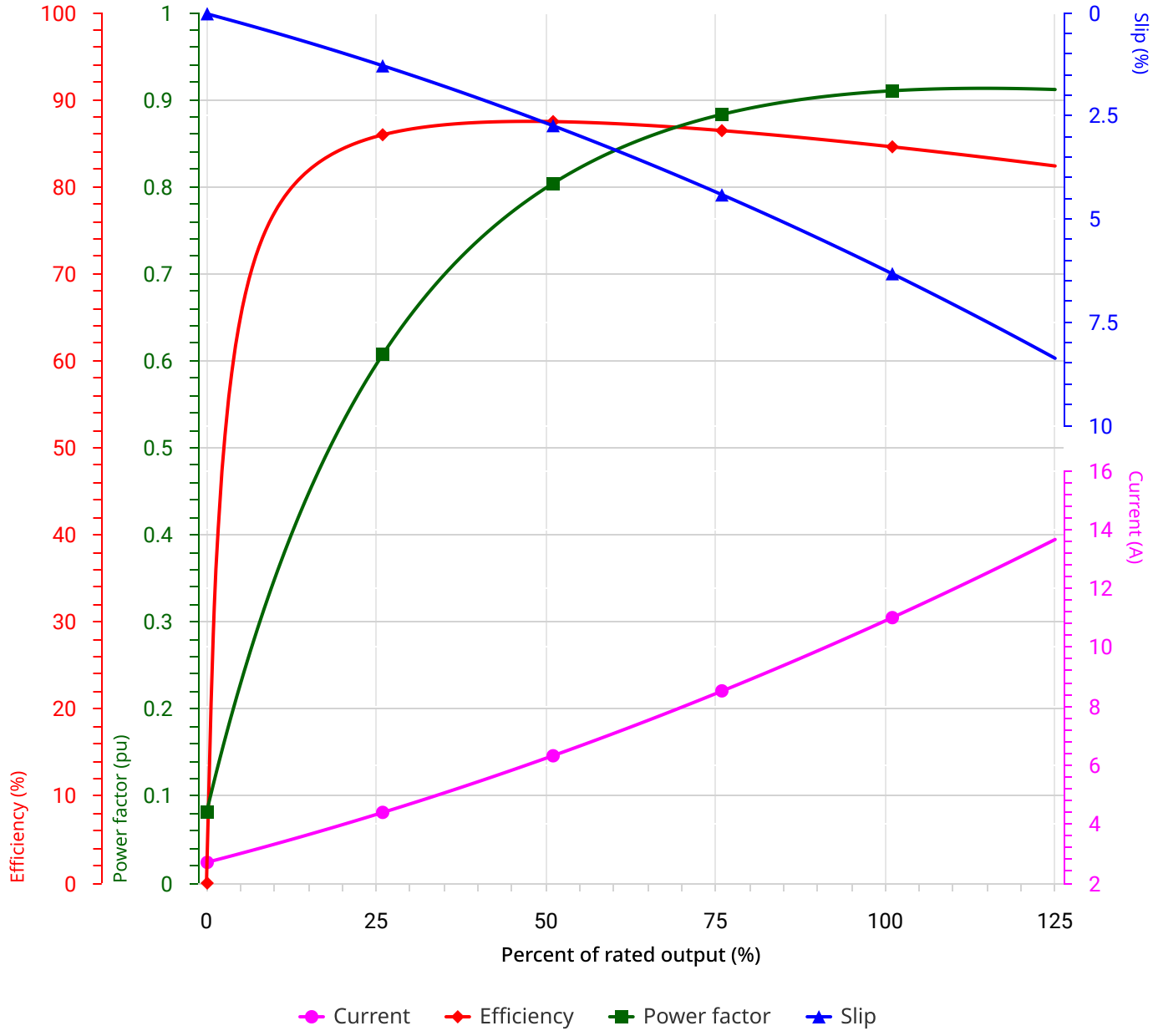
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 7.5 HP (5.5 kW) 380V 50Hz 2P 182/4T

Rated current	: 10.9 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 1.94 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2810 rpm	Design	: A

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