DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 143/5T	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	: 18.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0049 kgm²
Design	: B		

Output		1 HP (0.75 kW)	1 HP (0.75 kW)
Poles		4	4
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		3.02/1.51 A	1.75 A
L. R. Amperes		26.0/13.0 A	11.4 A
LRC		8.6 Code M	6.5 Code J
No load current		2.00/1.00 A	1.00 A
Rated speed		1760 rpm	1450 rpm
Slip		2.22 %	3.33 %
Rated torque		0.412 kgfm	0.501 kgfm
Locked rotor torque		280 %	220 %
Breakdown torque		370 %	250 %
Service factor		1.25	1.25
Temperature rise		80 K	80 K
Noise level		51 dB(A)	49 dB(A)
Locked rotor time		18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)
Efficiency (%)	50%	80.0	80.0
	75%	84.0	82.5
	100%	85.5	82.5
Power Factor	Start	0.68	0.68
	50%	0.52	0.59
	75%	0.65	0.71
	100%	0.73	0.79
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		18.72	20.45
P2 (0,5;1,0)		15.75	17.20
P3 (0,25;1,0)		16.98	18.54
P4 (0,9;0,5)		11.98	13.09
P5 (0,5;0,5)		8.82	9.63
P6 (0,5;0,25)		7.56	8.25
P7 (0,25;0,25)		5.71	6.24

	Drive end	Non drive end
Bearing type	6205-ZZ	6204-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 34 kgf
Max. compression : 52 kgf

Notes:

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

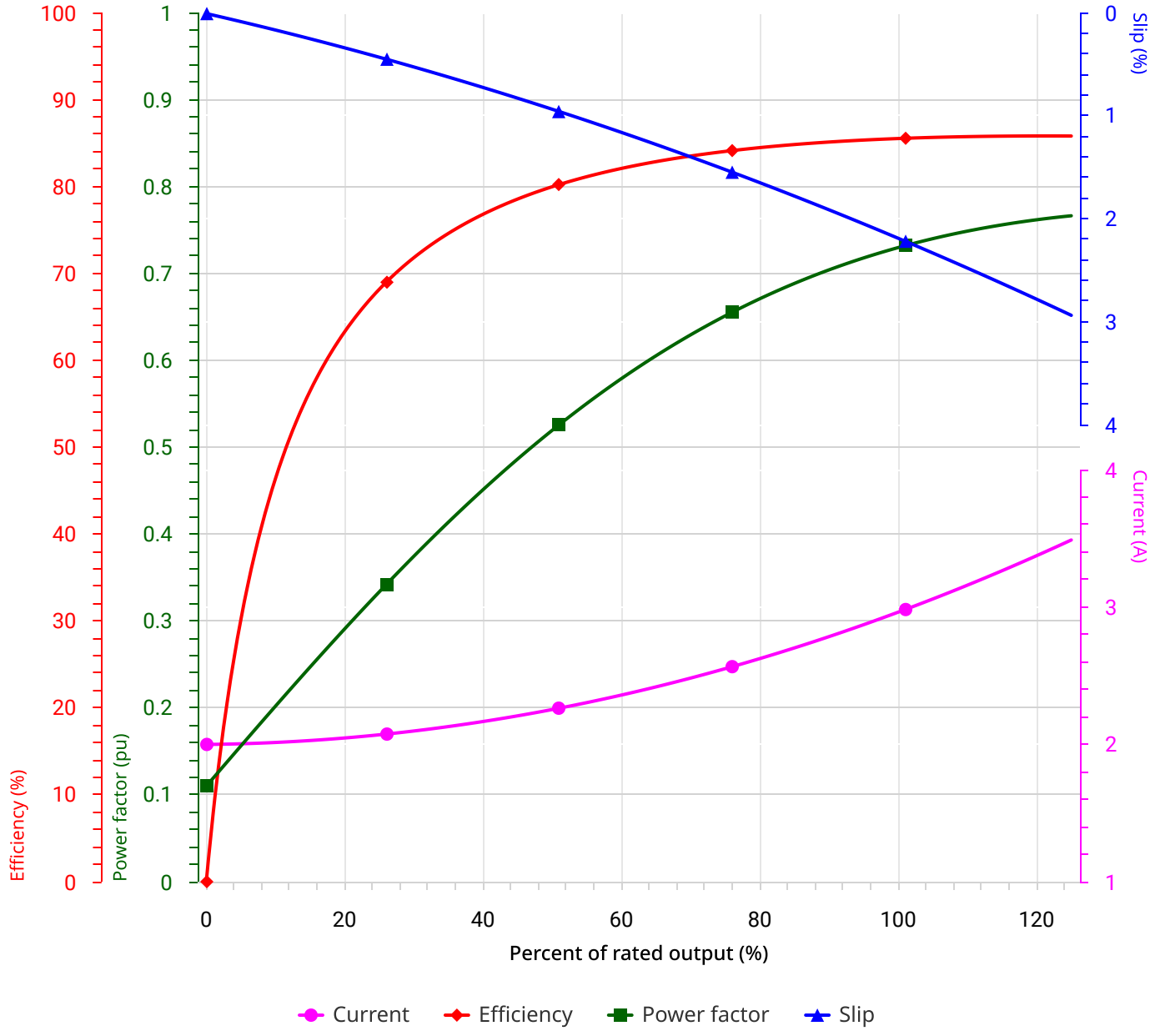
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 1 HP (0.75 kW) 208/230/460V 60Hz 4P 143/5T

Rated current	: 3.34/3.02/1.51 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 8.6 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 0.412 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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

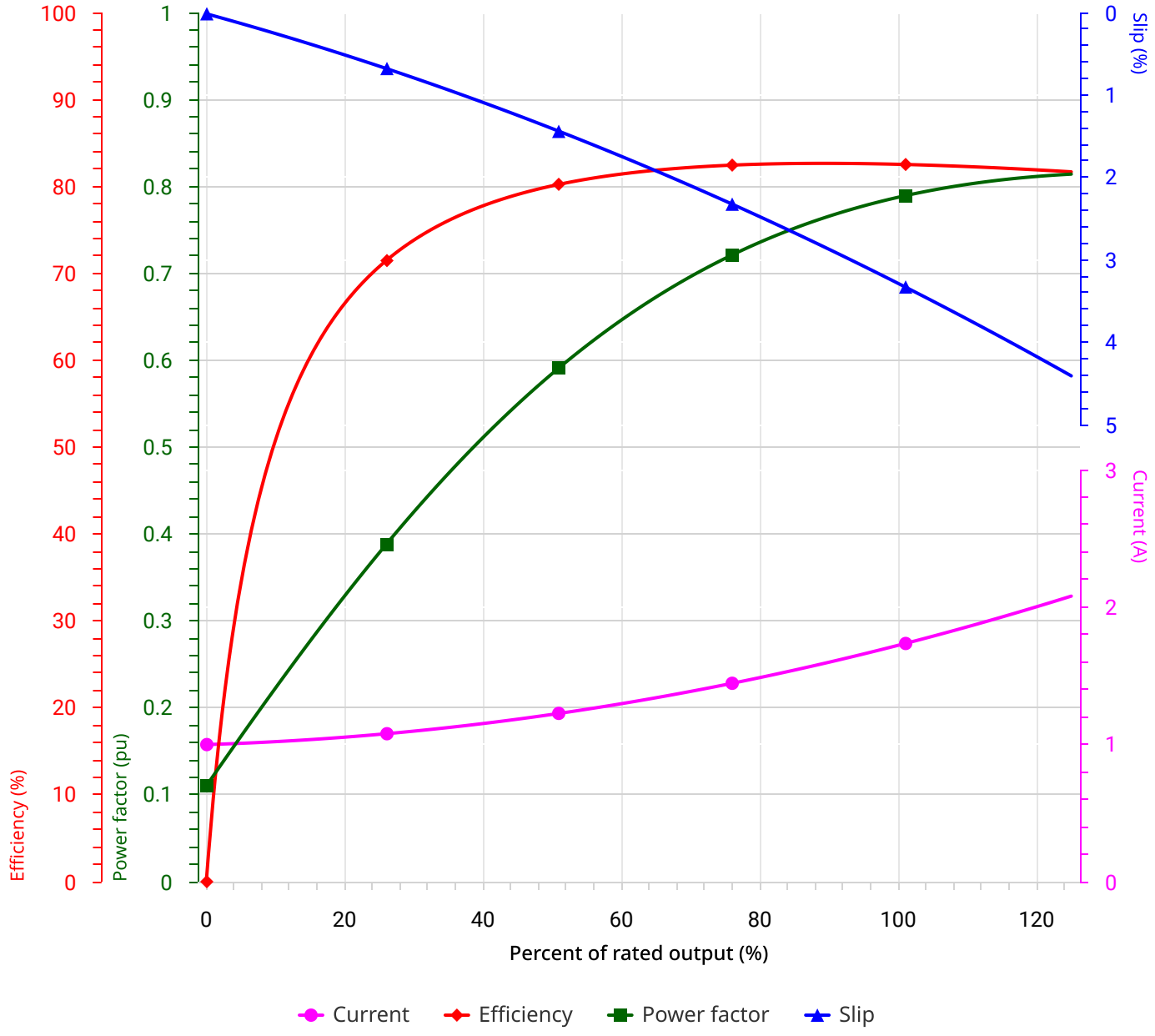
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 1 HP (0.75 kW) 380V 50Hz 4P 143/5T

Rated current	: 1.75 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 6.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.501 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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