DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Explosion Proof Motors - NEMA Premium Efficiency
Product code	: 12495577

Frame	: 447T	Cooling method	: TEFC-XP
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	: 1152 kg
Protection degree	: IP56	Moment of inertia (J)	: 5.63 kgm²
Design	: B		

Output		150 HP (110 kW)	125 HP (90 kW)	125 HP (90 kW)	125 HP (90 kW)
Poles		6	6	6	6
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		460 V	380 V	400 V	415 V
Rated current		174 A	173 A	166 A	164 A
L. R. Amperes		1305 A	1228 A	1311 A	1394 A
LRC		7.5 Code H	7.1 Code H	7.9 Code J	8.5 Code K
No load current		66.0 A	66.0 A	70.0 A	73.0 A
Rated speed		1190 rpm	990 rpm	990 rpm	990 rpm
Slip		0.83 %	1.00 %	1.00 %	1.00 %
Rated torque		91.5 kgfm	91.6 kgfm	91.6 kgfm	91.6 kgfm
Locked rotor torque		260 %	240 %	270 %	290 %
Breakdown torque		260 %	260 %	290 %	310 %
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Noise level		73 dB(A)	73 dB(A)	73 dB(A)	73 dB(A)
Locked rotor time		42 s (hot) 76 s (cold)	20 s (hot) 36 s (cold)	20 s (hot) 36 s (cold)	20 s (hot) 36 s (cold)
Efficiency (%)	50%	95.0	94.5	94.5	94.5
	75%	95.8	95.0	95.4	95.4
	100%	95.8	95.0	95.4	95.4
Power Factor	Start	0.41	0.00	0.00	0.00
	50%	0.68	0.68	0.65	0.62
	75%	0.78	0.78	0.76	0.74
	100%	0.83	0.83	0.82	0.8
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		0.00	0.00	0.00	0.00
P2 (0,5;1,0)		0.00	0.00	0.00	0.00
P3 (0,25;1,0)		0.00	0.00	0.00	0.00
P4 (0,9;0,5)		0.00	0.00	0.00	0.00
P5 (0,5;0,5)		0.00	0.00	0.00	0.00
P6 (0,5;0,25)		0.00	0.00	0.00	0.00
P7 (0,25;0,25)		0.00	0.00	0.00	0.00

	Drive end	Non drive end
Bearing type	NU-319-C3	6316-C3
Lubrication interval	7683 h	12823 h
Lubricant amount	45 g	34 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 1877 kgf
Max. compression : 3029 kgf

Notes:
The vibration and noise level informed are valid when motor is operating with roller bearings respecting their minimum radial load.
Thus, WEG reserves the right to test the motor with ball bearings.

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/14

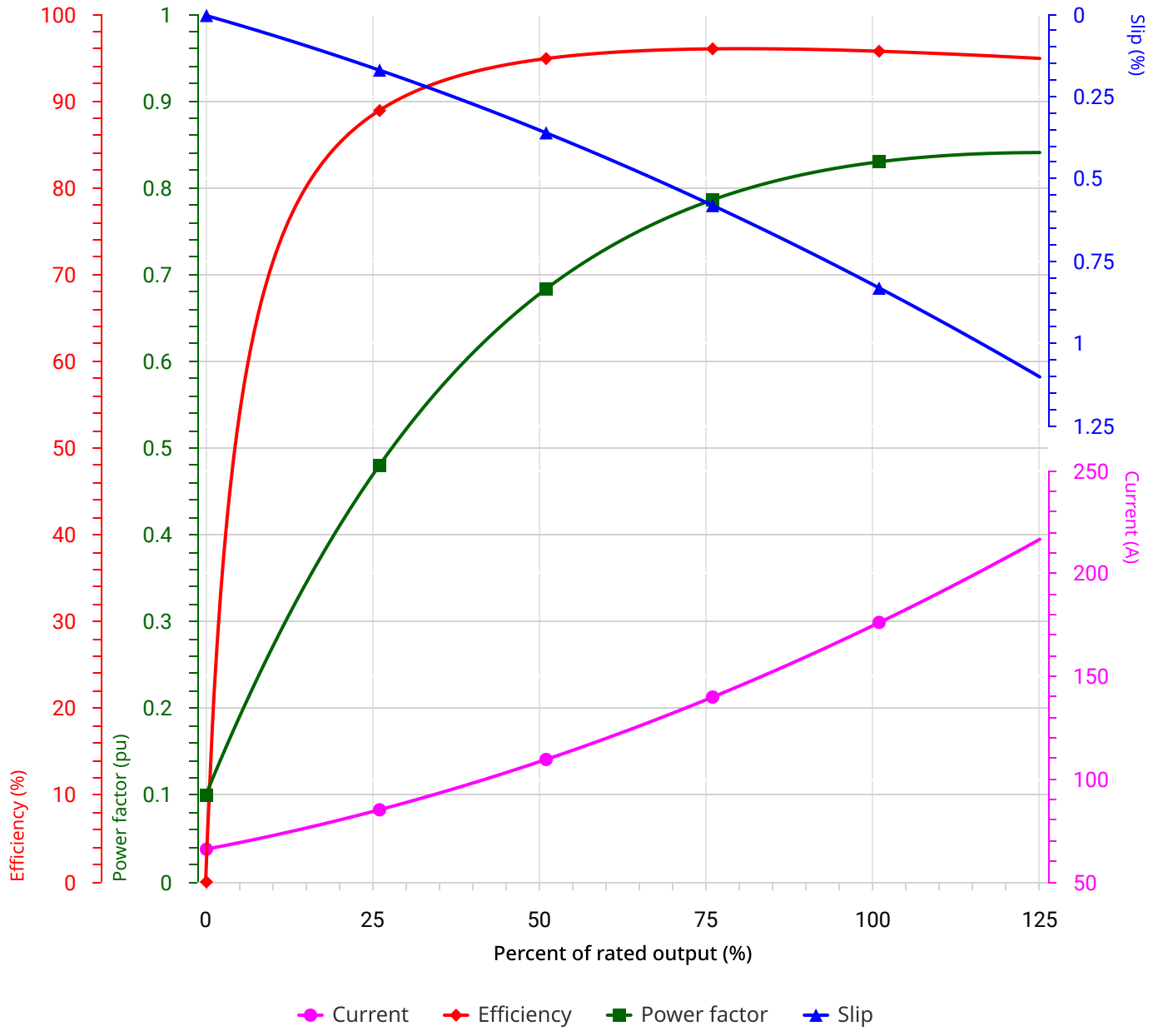
Performed by				
Checked by			Page	Revision
Date	2026/11/14		1/5	0

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Explosion Proof Motors - NEMA Premium Efficiency
Product code	: 12495577



Performance	: 150 HP (110 kW) 460V 60Hz 6P 447T

Rated current	: 174 A	Moment of inertia (J)	: 5.63 kgm²
LRC	: 7.5 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 91.5 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1190 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/14

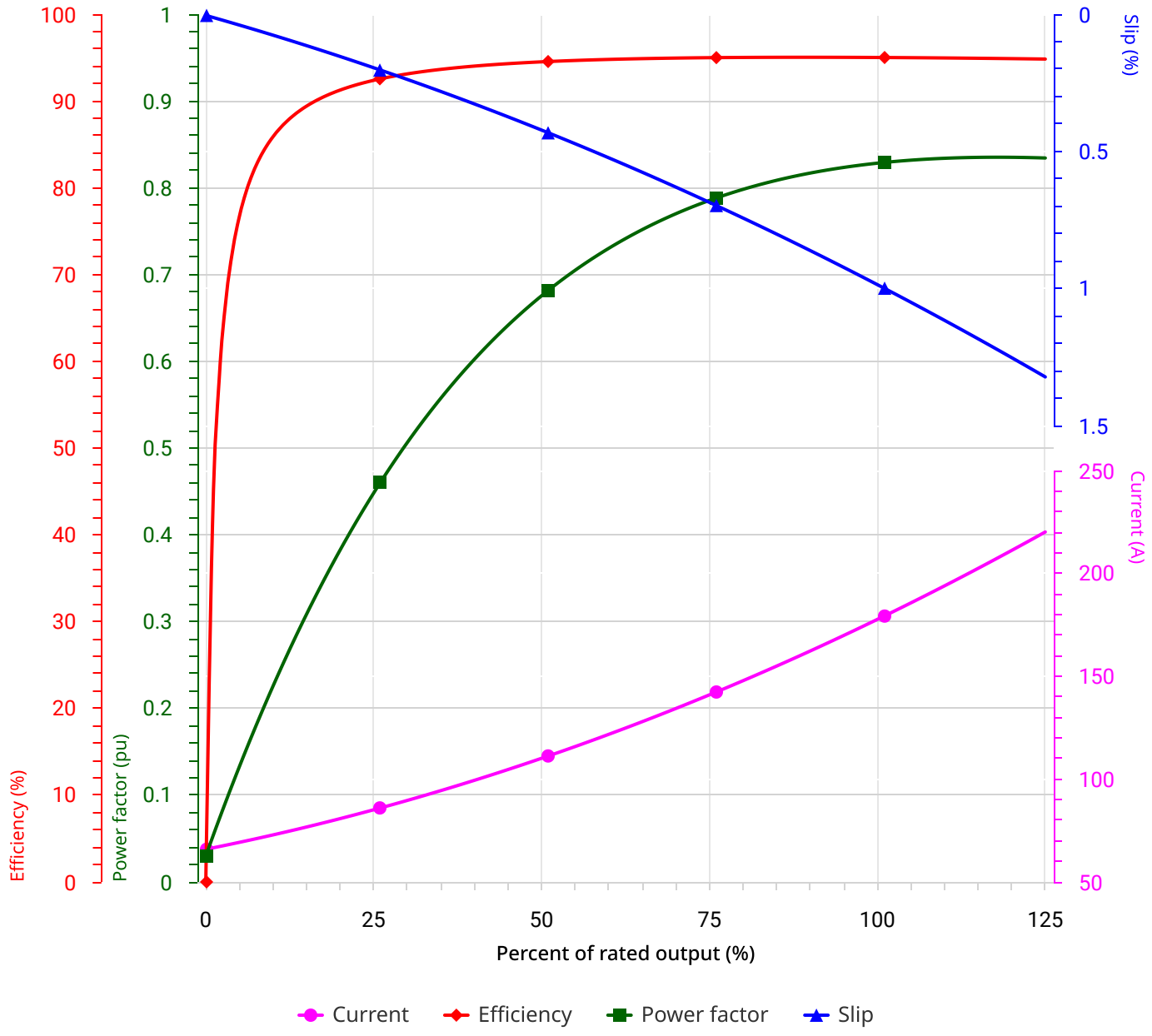
Performed by				
Checked by			Page	Revision
Date	2026/11/14		2/5	0

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Explosion Proof Motors - NEMA Premium Efficiency
Product code	: 12495577



Performance	: 125 HP (90 kW) 380V 50Hz 6P 447T

Rated current	: 173 A	Moment of inertia (J)	: 5.63 kgm²
LRC	: 7.1 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/14

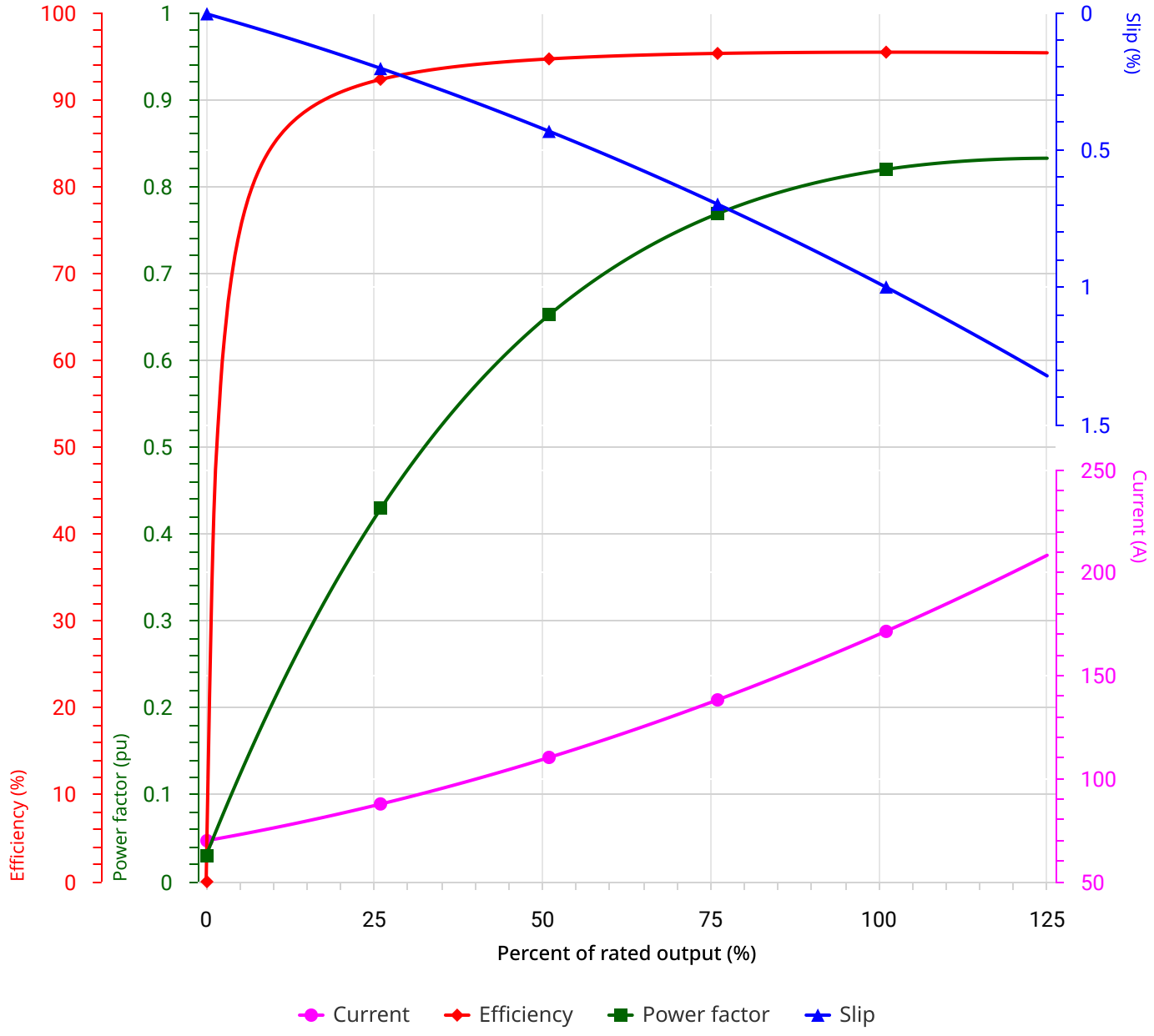
Performed by				
Checked by			Page	Revision
Date	2026/11/14		3/5	0

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Explosion Proof Motors - NEMA Premium Efficiency
Product code	: 12495577



Performance	: 125 HP (90 kW) 400V 50Hz 6P 447T

Rated current	: 166 A	Moment of inertia (J)	: 5.63 kgm²
LRC	: 7.9 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/14

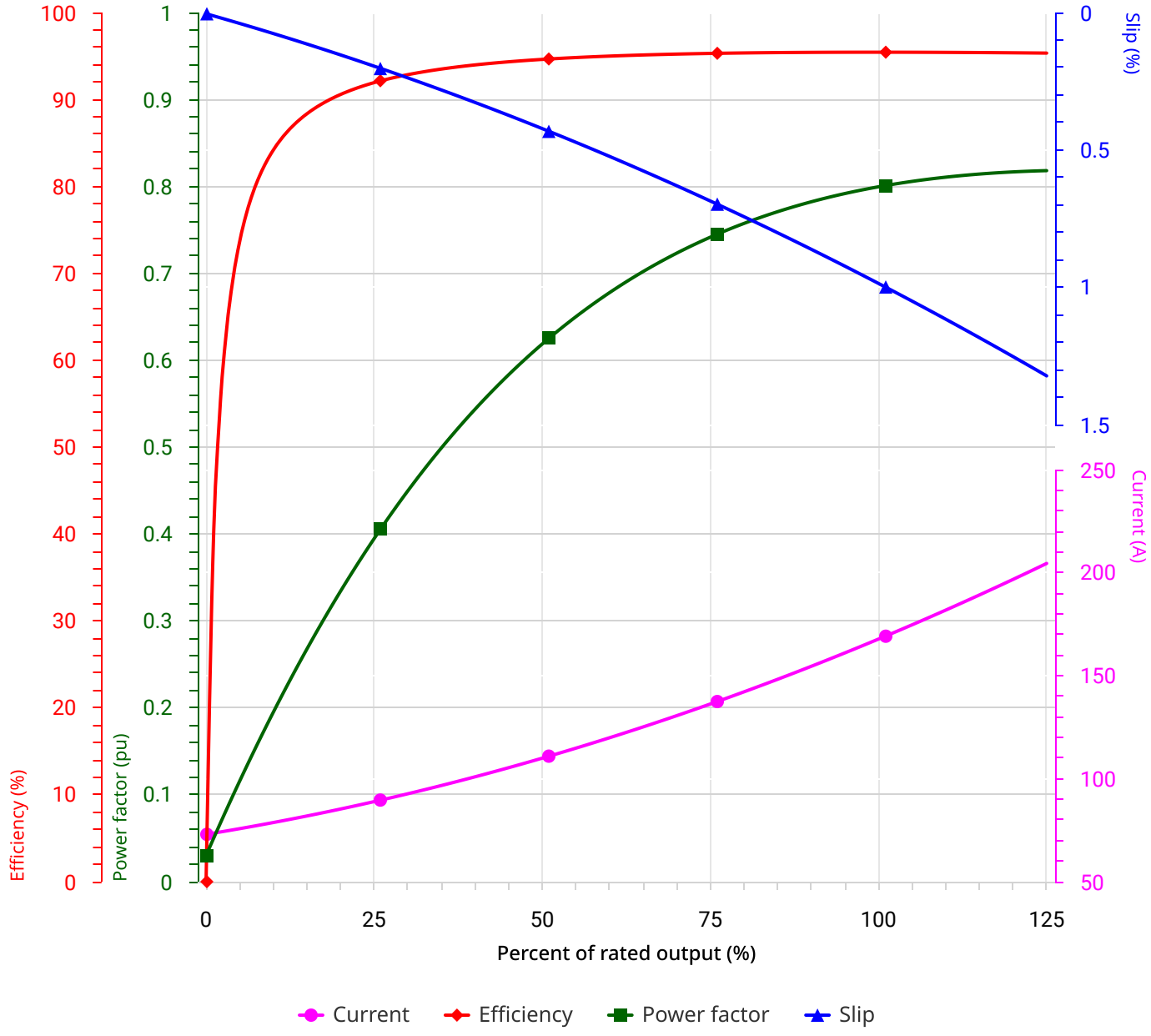
Performed by				
Checked by			Page	Revision
Date	2026/11/14		4/5	0

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Explosion Proof Motors - NEMA Premium Efficiency
Product code	: 12495577



Performance	: 125 HP (90 kW) 415V 50Hz 6P 447T

Rated current	: 164 A	Moment of inertia (J)	: 5.63 kgm²
LRC	: 8.5 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/14

Performed by				
Checked by			Page	Revision
Date	2026/11/14		5/5	0

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.