DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 14605391

Frame	: 254/6TC	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-12/V18T
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 96.7 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0939 kgm²
Design	: B		

Output		20 HP (15 kW)	15 HP (11 kW)	15 HP (11 kW)	15 HP (11 kW)
Poles		4	4	4	4
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		208-230/460 V	190/380 V	220 V	220/415 V
Rated current		55.3-50.0/25.0 A	44.6/22.3 A	38.5 A	41.1/21.8 A
L. R. Amperes		315/158 A	303/152 A	262 A	321/170 A
LRC		6.3 Code G	6.8 Code H	6.8 Code H	7.8 Code K
No load current		22.9/11.4 A	22.4/11.2 A	19.4 A	25.5/13.5 A
Rated speed		1770 rpm	1470 rpm	1470 rpm	1475 rpm
Slip		1.67 %	2.00 %	2.00 %	1.67 %
Rated torque		8.20 kgfm	7.41 kgfm	7.00 kgfm	7.38 kgfm
Locked rotor torque		240 %	240 %	240 %	300 %
Breakdown torque		290 %	300 %	300 %	360 %
Service factor		1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K
Noise level		64 dB(A)	62 dB(A)	62.0 dB(A)	62 dB(A)
Locked rotor time		15 s (hot) 27 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)
Efficiency (%)	50%	92.4	91.0	91.0	89.9
	75%	92.4	91.4	91.4	91.0
	100%	93.0	91.4	91.4	91.4
Power Factor	Start	0.51	0.53	0.53	0.53
	50%	0.63	0.62	0.62	0.53
	75%	0.74	0.75	0.75	0.68
	100%	0.81	0.82	0.82	0.77
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	6309-Z-C3	6208-Z-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	8 g
Lubricant type	MOBIL POLYREX EM	

Notes:

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

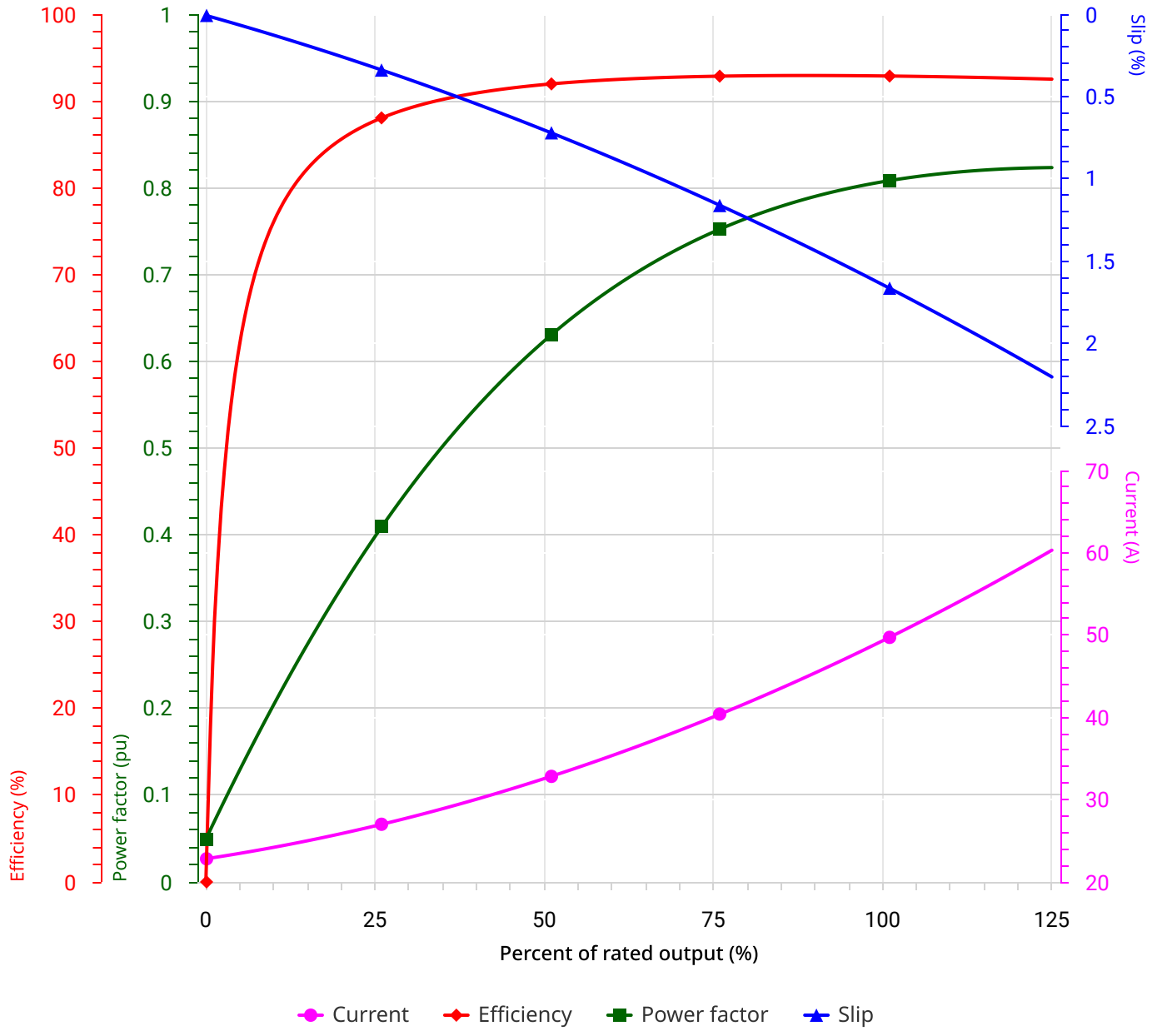
Performed by				
Checked by			Page	Revision
Date	2026/11/14		1/5	0

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	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 14605391



Performance	: 20 HP (15 kW) 208/230/460V 60Hz 4P 254/6TC

Rated current	: 55.3/50.0/25.0 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 8.20 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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

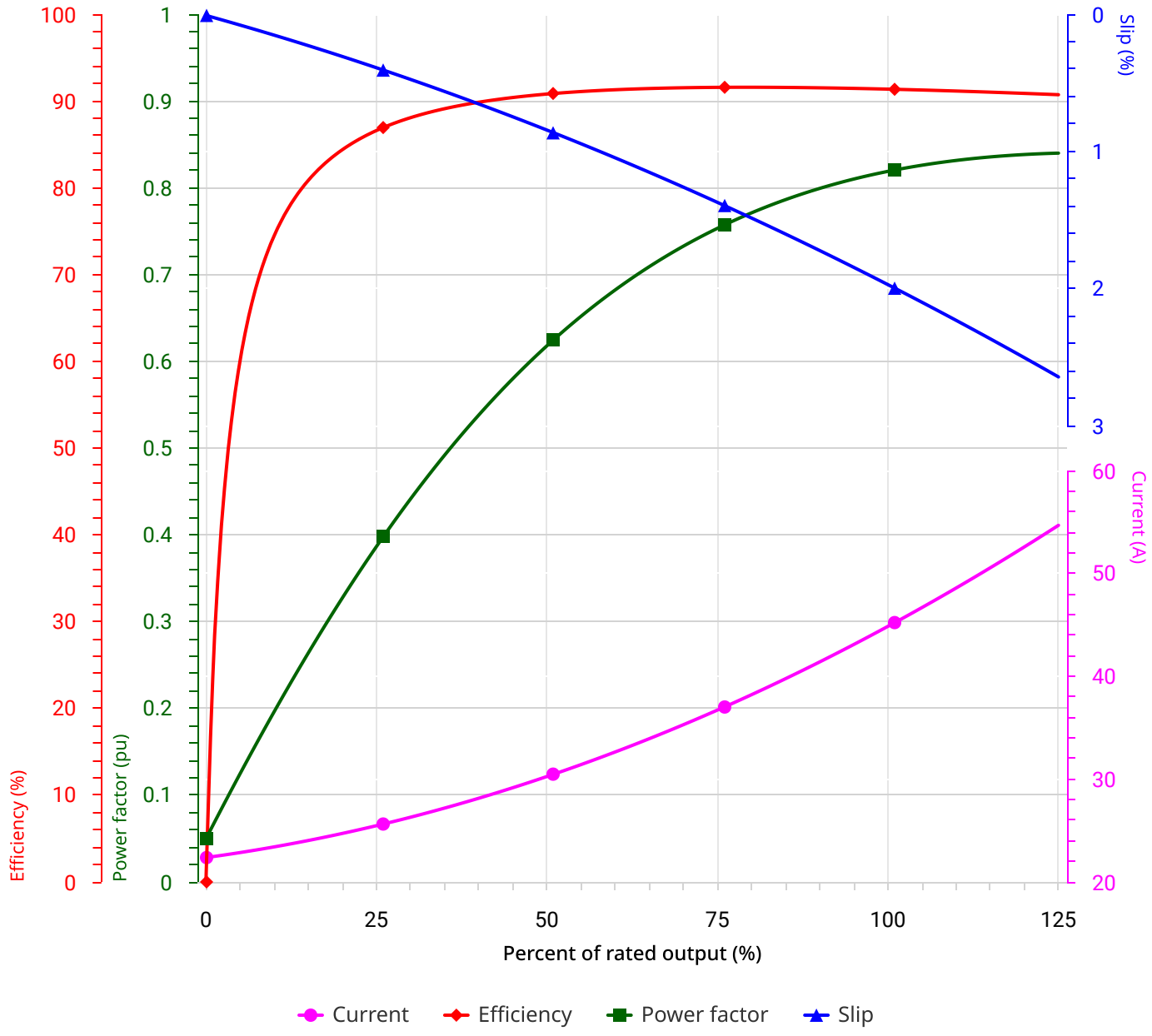
Performed by				
Checked by			Page	Revision
Date	2026/11/14		2/5	0

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	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 14605391



Performance	: 15 HP (11 kW) 190/380V 50Hz 4P 254/6TC

Rated current	: 44.6/22.3 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 6.8 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 7.41 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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

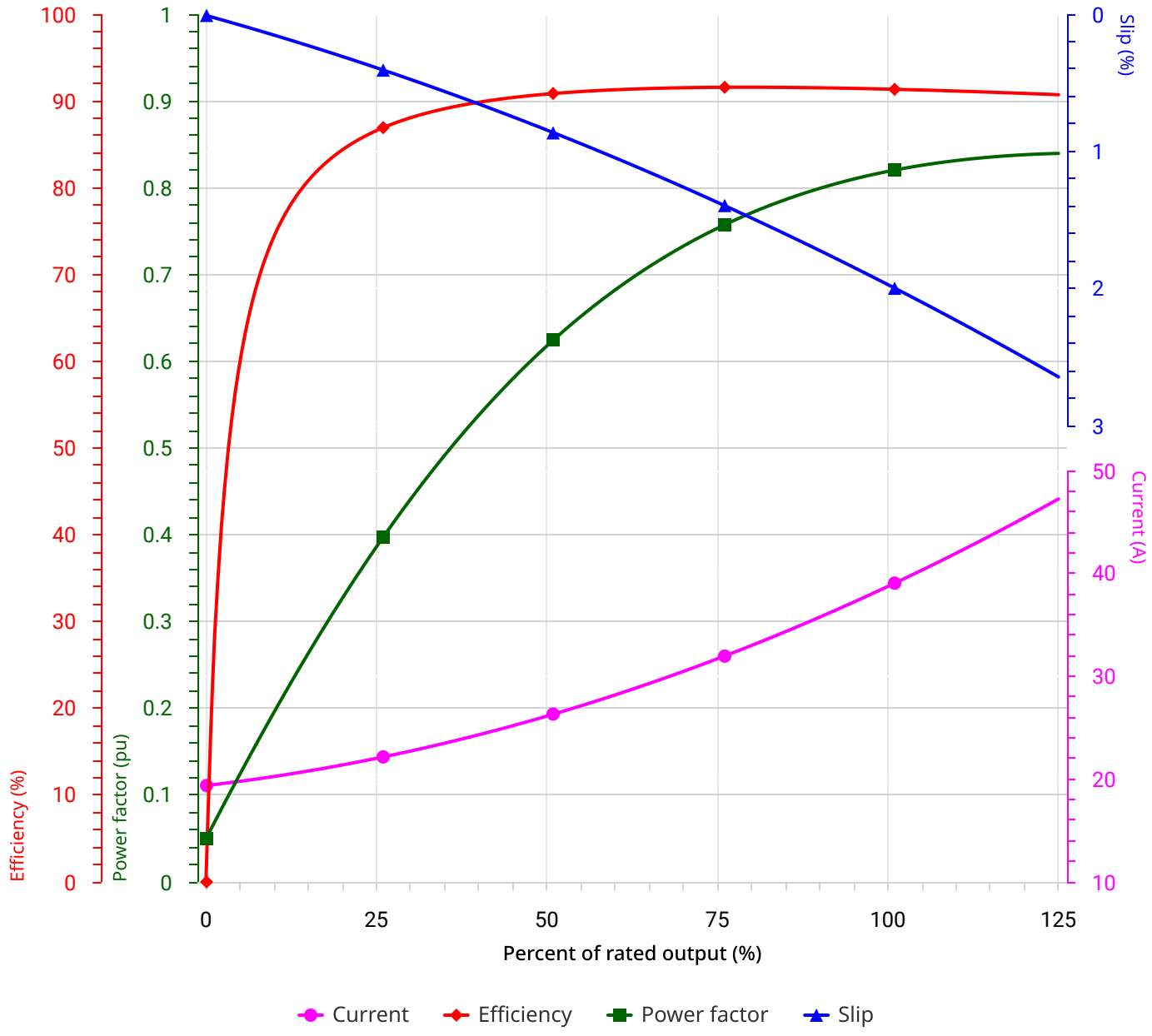
Performed by				
Checked by			Page	Revision
Date	2026/11/14		3/5	0

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	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 14605391



Performance	: 15 HP (11 kW) 220V 50Hz 4P 254/6TC

Rated current	: 38.5 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 6.8 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 7.00 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: 00002

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

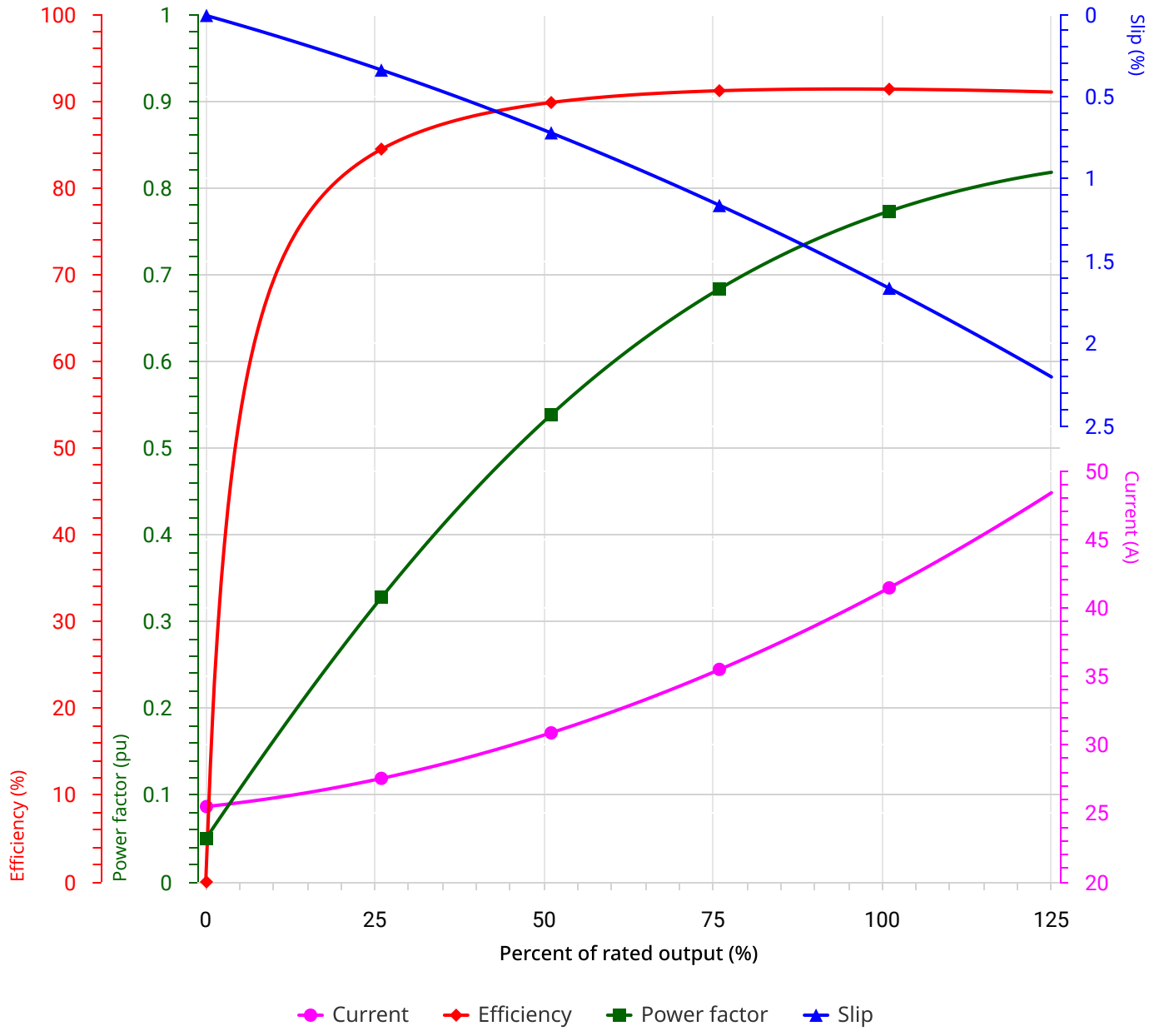
Performed by				
Checked by			Page	Revision
Date	2026/11/14		4/5	0

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	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 14605391



Performance	: 15 HP (11 kW) 220/415V 50Hz 4P 254/6TC

Rated current	: 41.1/21.8 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 7.8 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 7.38 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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.