DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 13482592

Frame	: 143/5JM	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-6/V18R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 18.9 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0049 kgm²
Design	: B		

Output		2 HP (1.5 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	220/415 V
Rated current		5.38/2.69 A	4.92/2.46 A	4.58/2.43 A
L. R. Amperes		41.4/20.7 A	35.4/17.7 A	38.0/20.2 A
LRC		7.7 Code K	7.2 Code J	8.3 Code L
No load current		2.75/1.38 A	2.70/1.35 A	3.08/1.63 A
Rated speed		1740 rpm	1435 rpm	1450 rpm
Slip		3.33 %	4.33 %	3.33 %
Rated torque		0.834 kgfm	0.759 kgfm	0.751 kgfm
Locked rotor torque		260 %	270 %	340 %
Breakdown torque		320 %	310 %	380 %
Service factor		1.15	1.00	1.00
Temperature rise		80 K	80 K	80 K
Noise level		52 dB(A)	49 dB(A)	49 dB(A)
Locked rotor time		17 s (hot) 31 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)
Efficiency (%)	50%	85.5	85.4	83.0
	75%	86.5	85.9	85.0
	100%	86.5	84.8	85.1
Power Factor	Start	0.59	0.64	0.66
	50%	0.61	0.59	0.51
	75%	0.74	0.73	0.65
	100%	0.81	0.8	0.74
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		0.00	0.00	0.00
P2 (0,5;1,0)		0.00	0.00	0.00
P3 (0,25;1,0)		0.00	0.00	0.00
P4 (0,9;0,5)		0.00	0.00	0.00
P5 (0,5;0,5)		0.00	0.00	0.00
P6 (0,5;0,25)		0.00	0.00	0.00
P7 (0,25;0,25)		0.00	0.00	0.00

	Drive end	Non drive end
Bearing type	6206-ZZ	6203-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

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

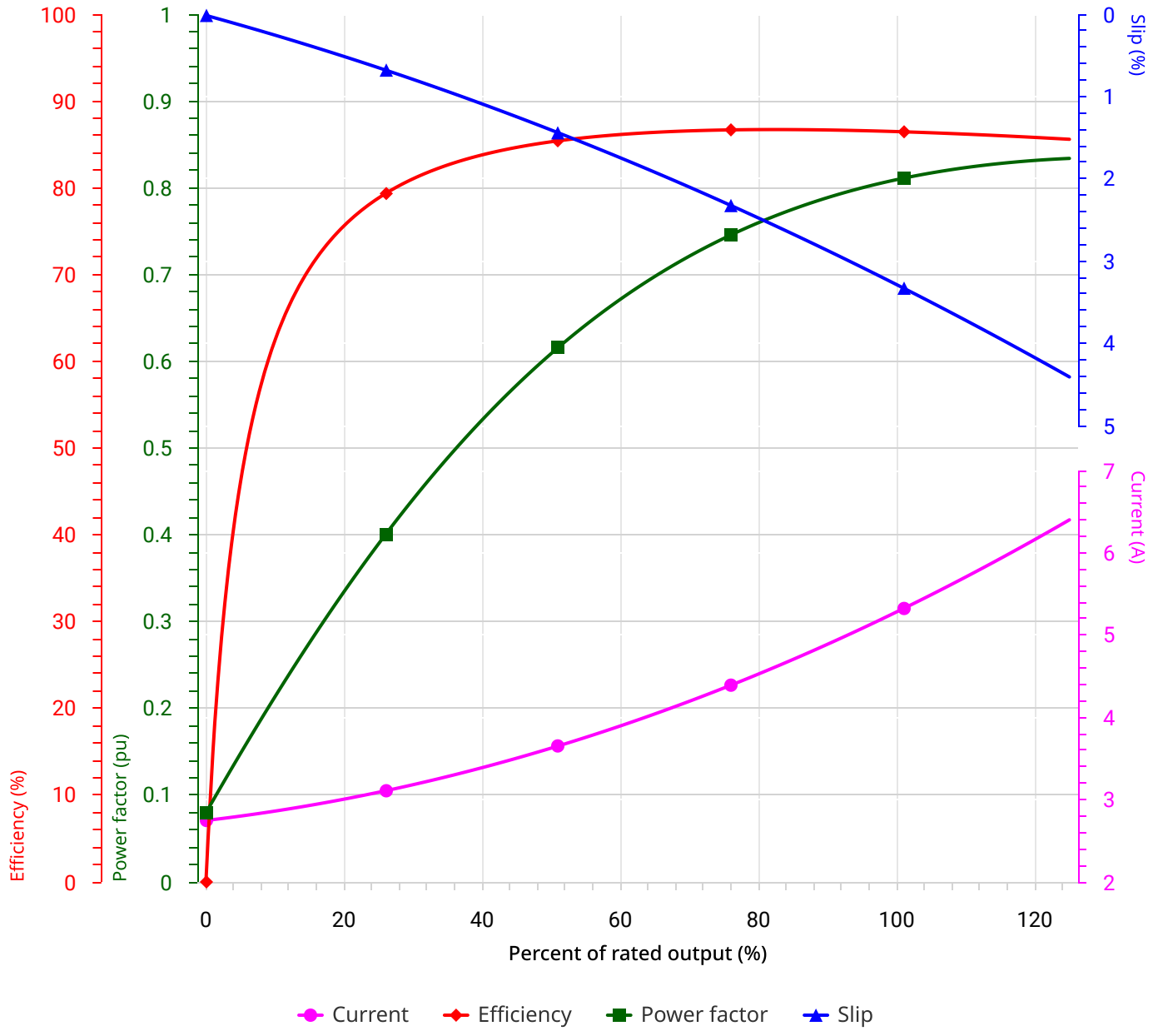
Performed by				
Checked by			Page	Revision
Date	2026/11/12		1/4	0

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 JM Derating
Product code	: 13482592



Performance	: 2 HP (1.5 kW) 208/230/460V 60Hz 4P 143/5JM

Rated current	: 5.95/5.38/2.69 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 7.7 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.834 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm	Design	: B

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

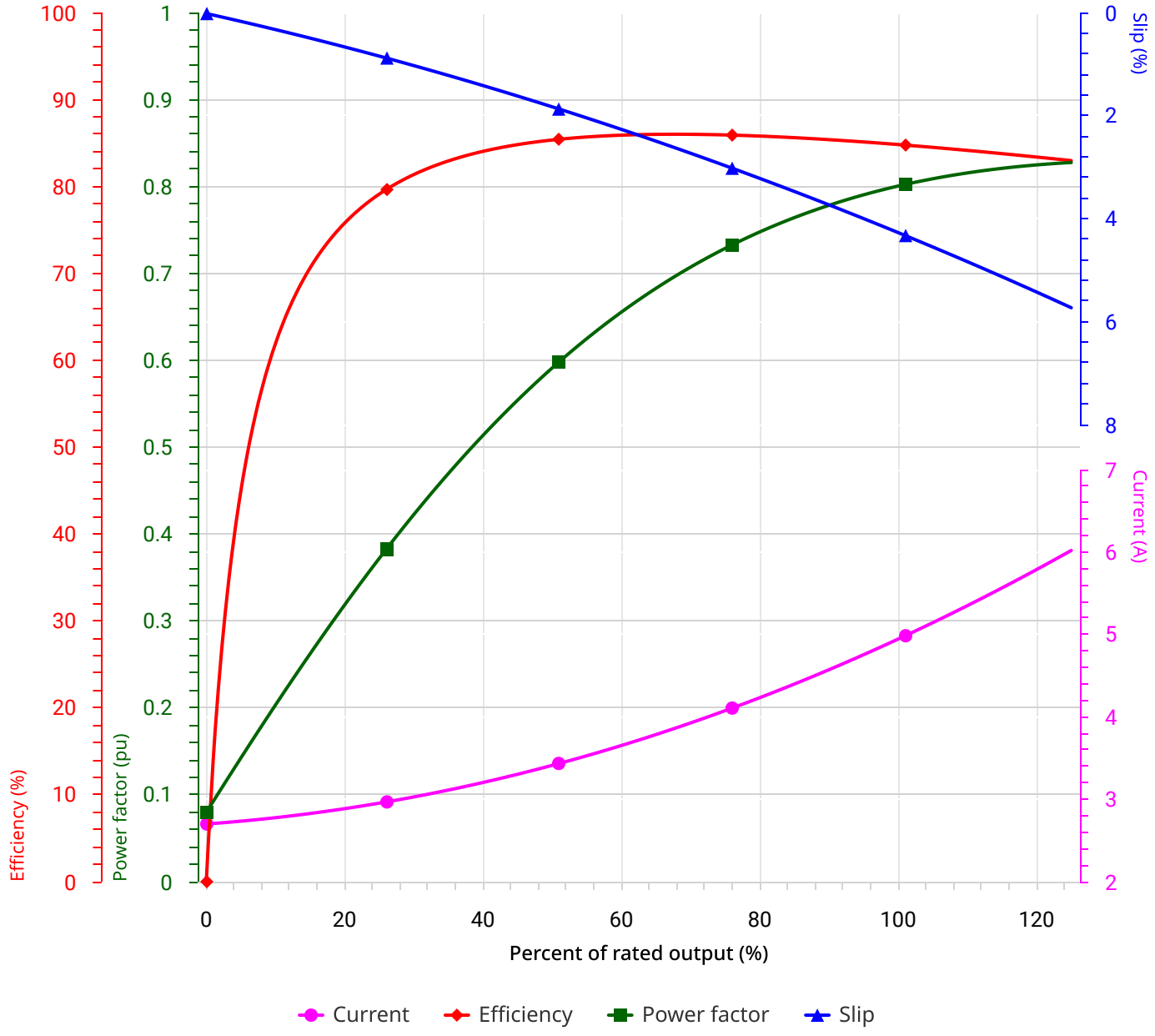
Performed by				
Checked by			Page	Revision
Date	2026/11/12		2/4	0

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 JM Derating
Product code	: 13482592



Performance	: 1.5 HP (1.1 kW) 190/380V 50Hz 4P 143/5JM

Rated current	: 4.92/2.46 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 7.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.759 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1435 rpm	Design	: B

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

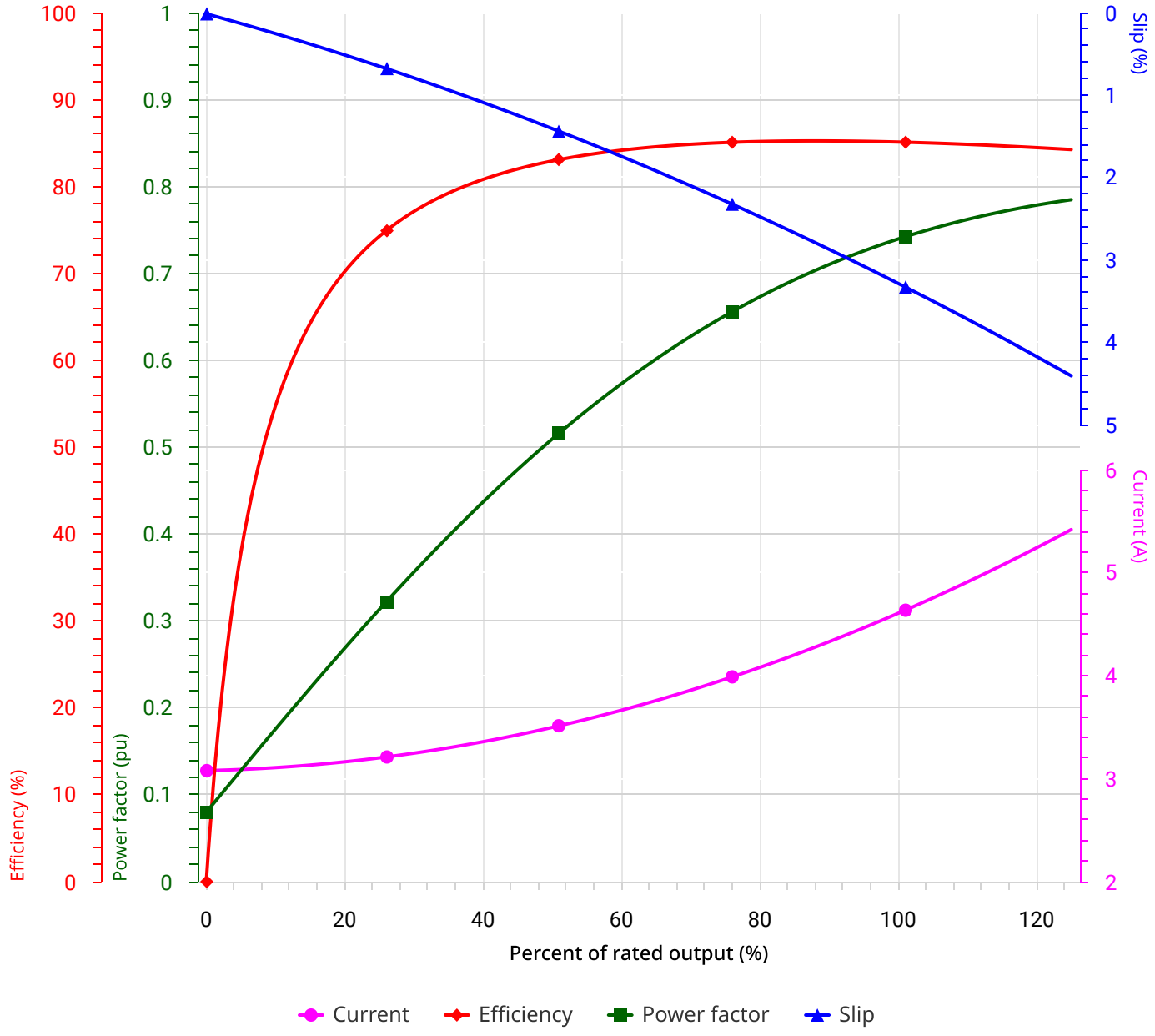
Performed by				
Checked by			Page	Revision
Date	2026/11/12		3/4	0

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 JM Derating
Product code	: 13482592



Performance	: 1.5 HP (1.1 kW) 220/415V 50Hz 4P 143/5JM

Rated current	: 4.58/2.43 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 8.3 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.751 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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

Performed by				
Checked by			Page	Revision
Date	2026/11/12		4/4	0

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