DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12498950

Frame	: 145JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: V18
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 22.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.006 kgm²
Design	: B		

Output		1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)
Poles		4	4	4	4
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	380 V	400 V	415 V
Rated current		4.20/2.10 A	2.42 A	2.39 A	2.39 A
L. R. Amperes		35.3/17.6 A	16.2 A	17.4 A	17.9 A
LRC		8.4 Code L	6.7 Code J	7.3 Code K	7.5 Code K
No load current		2.40/1.20 A	1.20 A	1.40 A	1.50 A
Rated speed		1755 rpm	1440 rpm	1450 rpm	1450 rpm
Slip		2.50 %	4.00 %	3.33 %	3.33 %
Rated torque		0.620 kgfm	0.756 kgfm	0.751 kgfm	0.751 kgfm
Locked rotor torque		290 %	250 %	250 %	280 %
Breakdown torque		350 %	280 %	290 %	320 %
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Noise level		51 dB(A)	49 dB(A)	49 dB(A)	49 dB(A)
Locked rotor time		14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)
Efficiency (%)	50%	82.5	82.5	82.5	81.0
	75%	85.5	84.0	84.0	84.0
	100%	86.5	84.1	84.1	84.1
Power Factor	Start	0.69	0.69	0.69	0.69
	50%	0.54	0.61	0.57	0.53
	75%	0.67	0.74	0.70	0.67
	100%	0.76	0.82	0.79	0.76
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		14.68	17.79	17.79	17.79
P2 (0,5;1,0)		12.06	14.61	14.61	14.61
P3 (0,25;1,0)		11.97	14.50	14.50	14.50
P4 (0,9;0,5)		8.74	10.59	10.59	10.59
P5 (0,5;0,5)		6.14	7.44	7.44	7.44
P6 (0,5;0,25)		4.88	5.91	5.91	5.91
P7 (0,25;0,25)		3.64	4.41	4.41	4.41

	Drive end	Non drive end
Bearing type	6206-ZZ	6204-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/17

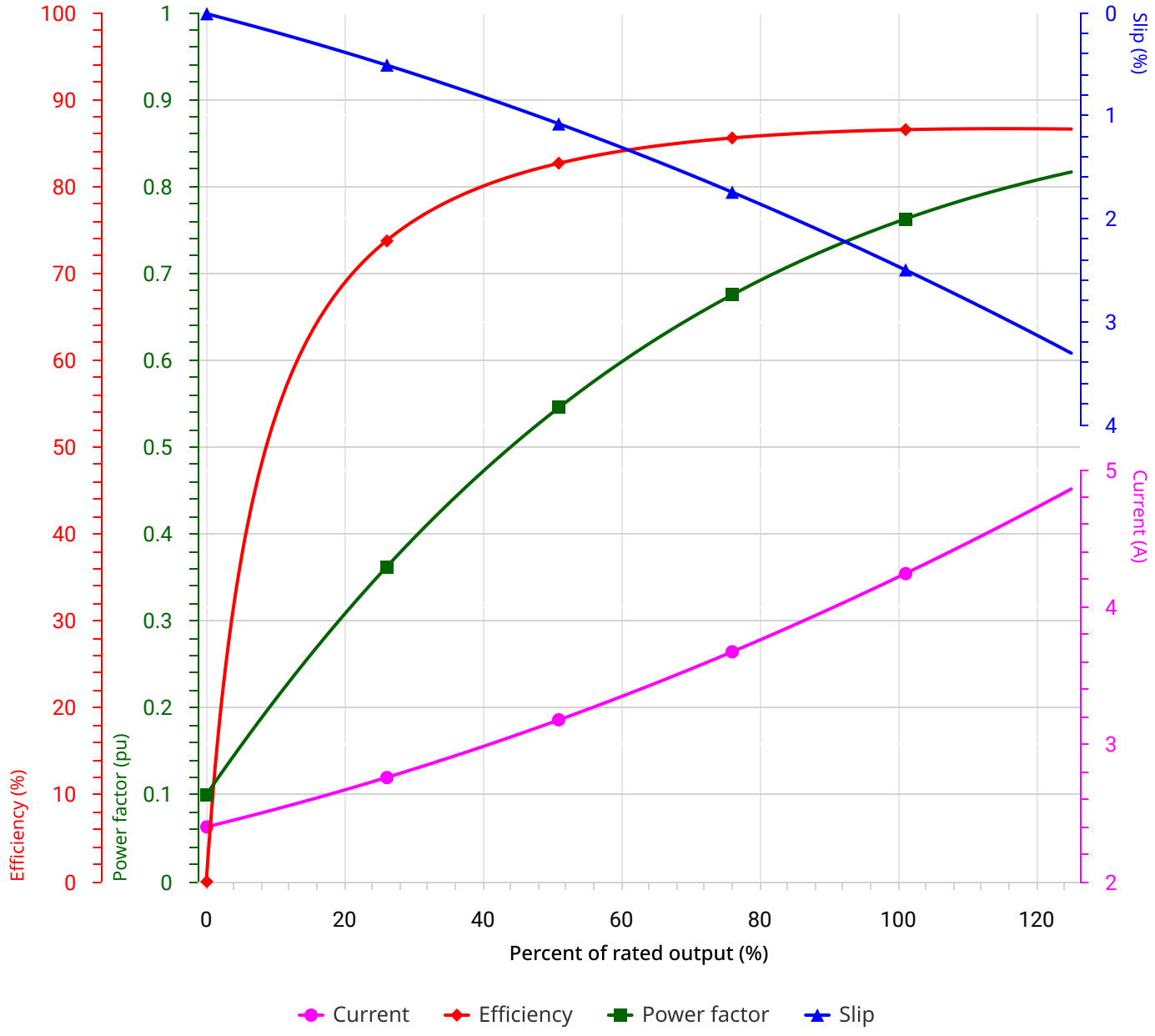
Performed by				
Checked by			Page	Revision
Date	2026/11/17		1/5	0

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	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12498950



Performance	: 1.5 HP (1.1 kW) 208/230/460V 60Hz 4P 145JM

Rated current	: 4.36/4.20/2.10 A	Moment of inertia (J)	: 0.006 kgm²
LRC	: 8.4 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/17

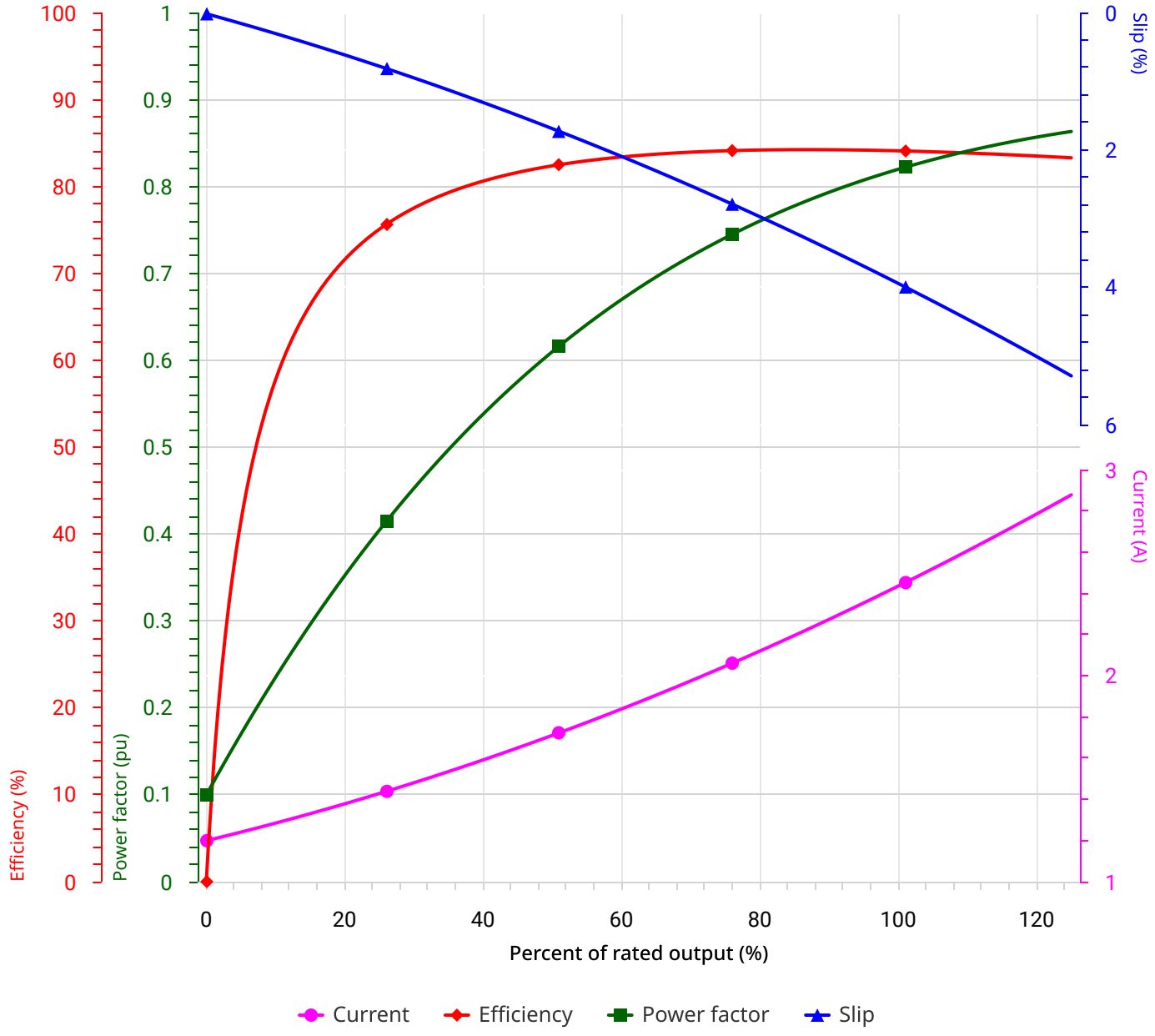
Performed by				
Checked by			Page	Revision
Date	2026/11/17		2/5	0

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	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12498950



Performance	: 1.5 HP (1.1 kW) 380V 50Hz 4P 145JM

Rated current	: 2.42 A	Moment of inertia (J)	: 0.006 kgm²
LRC	: 6.7 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.756 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/17

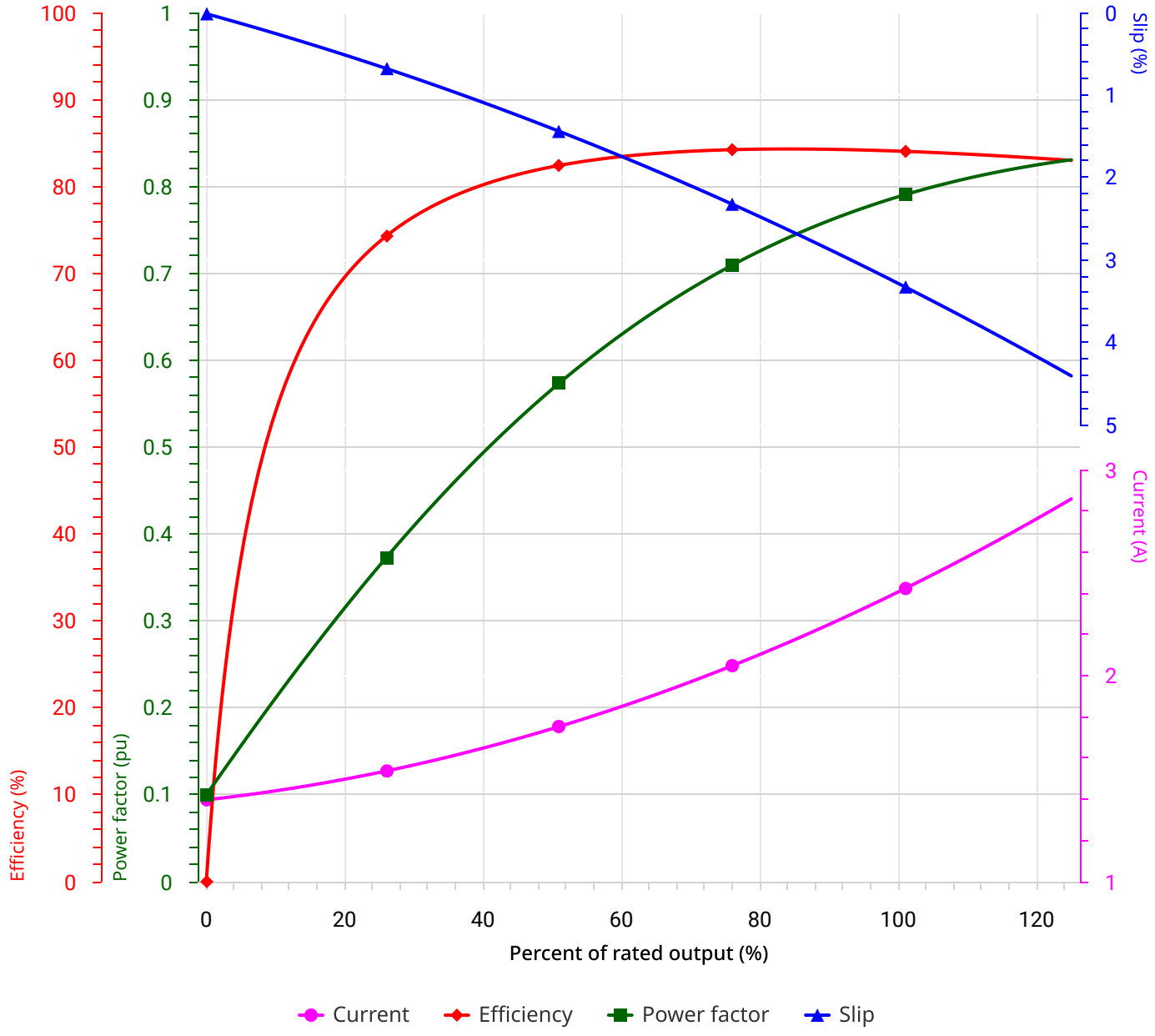
Performed by				
Checked by			Page	Revision
Date	2026/11/17		3/5	0

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	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12498950



Performance	: 1.5 HP (1.1 kW) 400V 50Hz 4P 145JM

Rated current	: 2.39 A	Moment of inertia (J)	: 0.006 kgm²
LRC	: 7.3 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.751 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/17

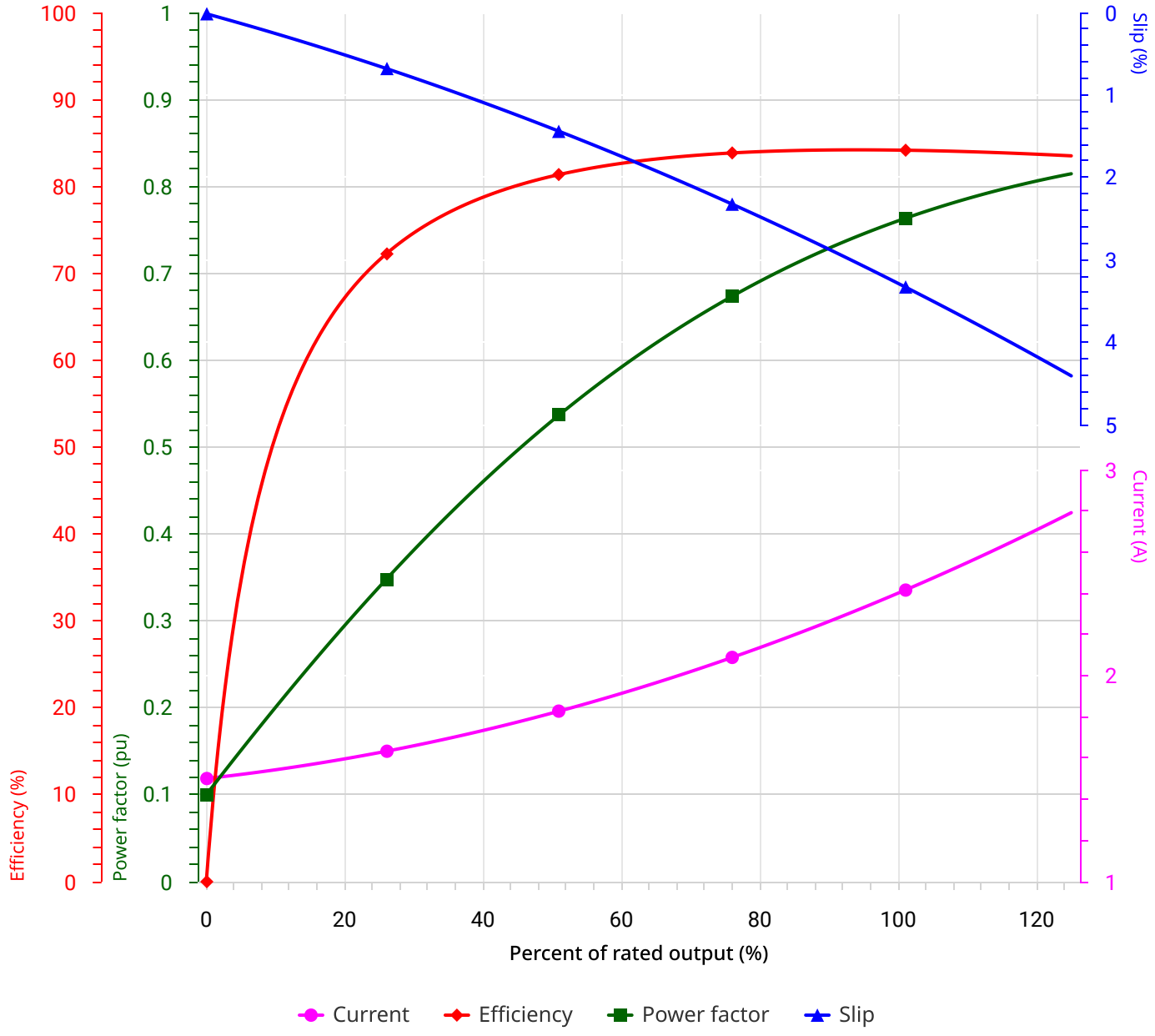
Performed by				
Checked by			Page	Revision
Date	2026/11/17		4/5	0

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	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12498950



Performance	: 1.5 HP (1.1 kW) 415V 50Hz 4P 145JM		
Rated current	: 2.39 A	Moment of inertia (J)	: 0.006 kgm²
LRC	: 7.5 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.751 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/17

Performed by				
Checked by			Page	Revision
Date	2026/11/17		5/5	0

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