DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru Metric - IE3 Nema Premium Efficiency
Product code : 16430535

Frame	: 112M
Output	: 5.5 HP (4 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 5.46 A
L. R. Amperes	: 51.9 A
LRC	: 9.5 Code L
No load current	: 2.56 A
Rated speed	: 3520 rpm
Slip	: 2.22 %
Rated torque	: 1.13 kgfm
Locked rotor torque	: 300 %
Pull up torque	: 255 %
Breakdown torque	: 440 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.008 kgm²

Locked rotor time	: 13 s (hot) 23 s (cold)
Temperature rise[4]	: 80 K
Duty cycle	: Cont.(S1)
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: B35L(E)
Rotation[1]	: Both
Noise level[2]	: 64 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 41.0 kg
Design	: N

Output	Start	50%	75%	100%
Efficiency (%)	-	85.5	87.5	88.5
Power Factor	0.57	0.65	0.76	0.83

Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

	Drive end	Non drive end
Bearing type	6207-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 83 kgf
Max. compression : 124 kgf

Notes:

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
14.11	11.86	11.37	7.85	5.35	3.98	2.80

Standards

Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Test	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/10

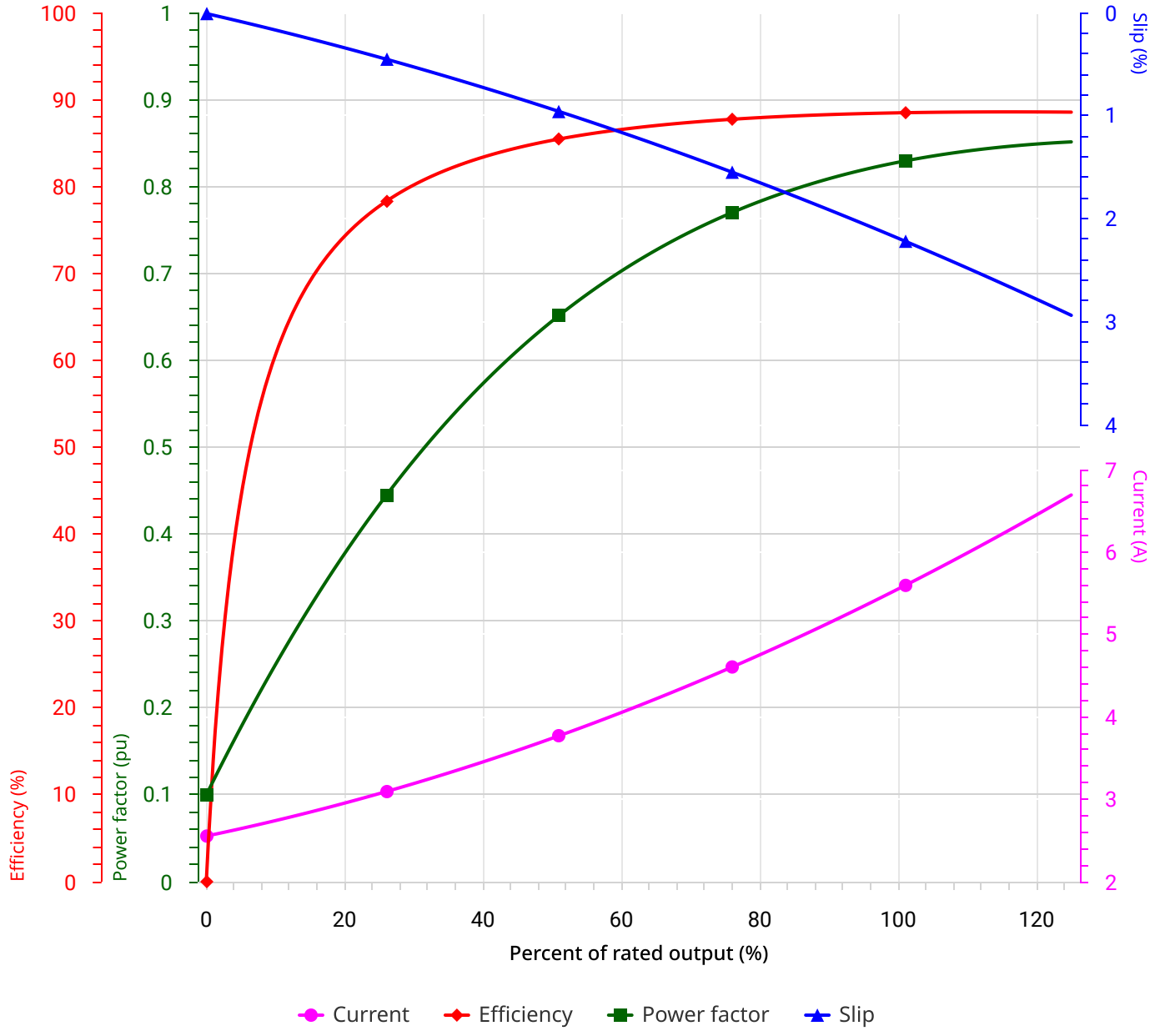
Performed by				
Checked by			Page	Revision
Date	2026/11/10		1/2	0

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 Tru Metric - IE3 Nema Premium Efficiency
Product code	: 16430535



Performance	: 5.5 HP (4 kW) 575V 60Hz 2P 112M		
Rated current	: 5.46 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 9.5 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 440 %	Temperature rise	: 80 K
Rated speed	: 3520 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/10

Performed by				
Checked by			Page	Revision
Date	2026/11/10		2/2	0

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