DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12945361

Frame	: 100L	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 1.5 kW (2 HP)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/400 V	Altitude	: 1000 m.a.s.l.
Rated current	: 6.43/3.70 A	Protection degree	: IP55
L. R. Amperes	: 35.4/20.4 A	Cooling method	: IC411 - TEFC
LRC	: 5.5	Mounting	: B3T
No load current	: 3.83/2.20 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 955 rpm	Noise level[2]	: 44.0 dB(A)
Slip	: 4.50 %	Starting method	: Direct On Line
Rated torque	: 15.0 Nm	Approx. weight[3]	: 34.5 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0143 kgm²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	81.5	82.5	82.5
Power Factor	0.49	0.62	0.71

Foundation loads

Max. traction	: 950 N
Max. compression	: 1288 N

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)
21.2	20.0	18.9	10.1	8.1	5.7	4.6

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6205 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes

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 +3dB(A).
(3) Approximate weight subject to changes 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

Performed by				
Checked by			Page	Revision
Date	04/03/2025		1 / 4	

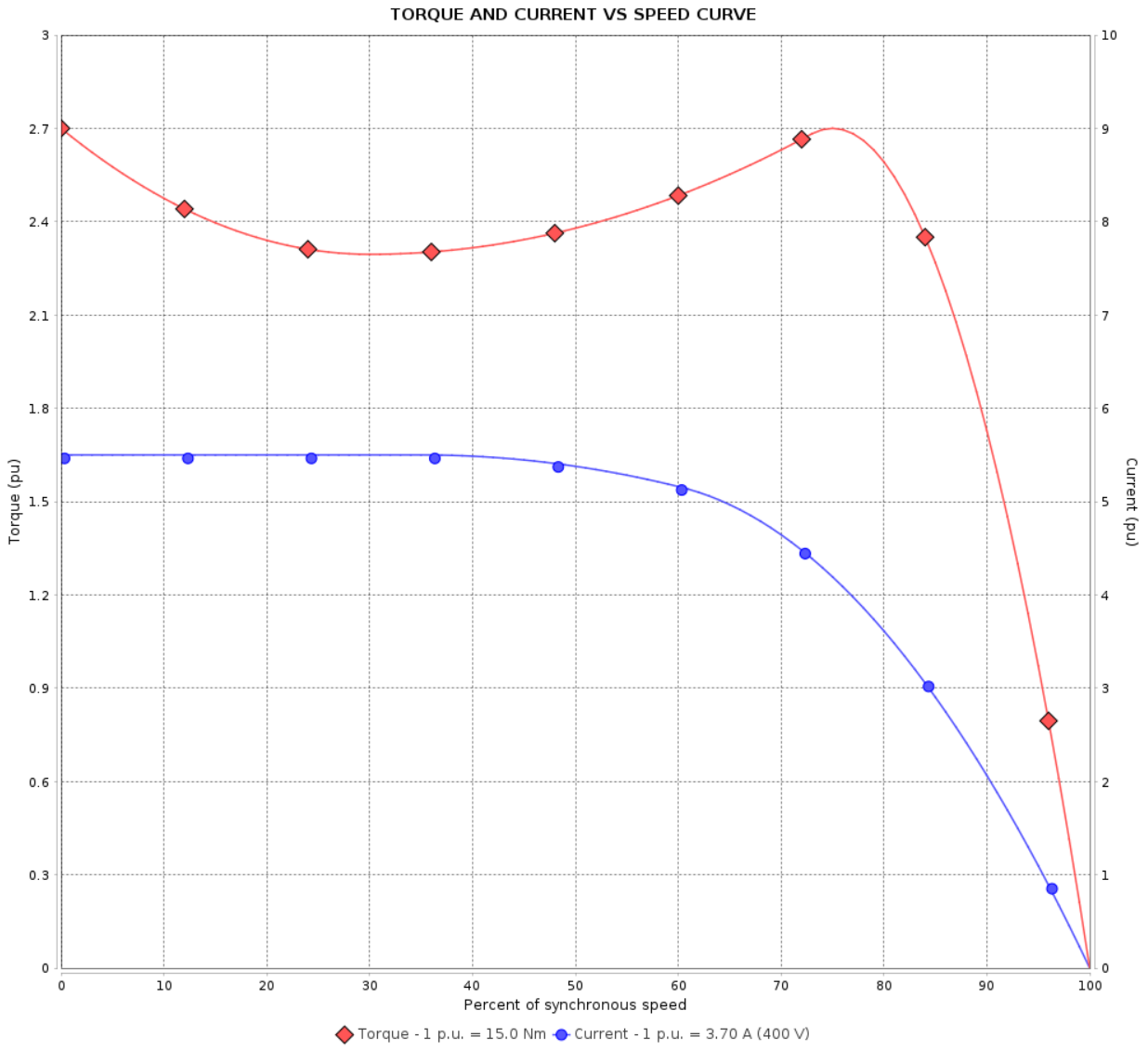
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12945361



Performance	: 230/400 V 50 Hz 6P		
Rated current	: 6.43/3.70 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 5.5	Duty cycle	: S1
Rated torque	: 15.0 Nm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 955 rpm	Design	: N
Locked rotor time	: 55s (cold) 31s (hot)		

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	04/03/2025		2 / 4	

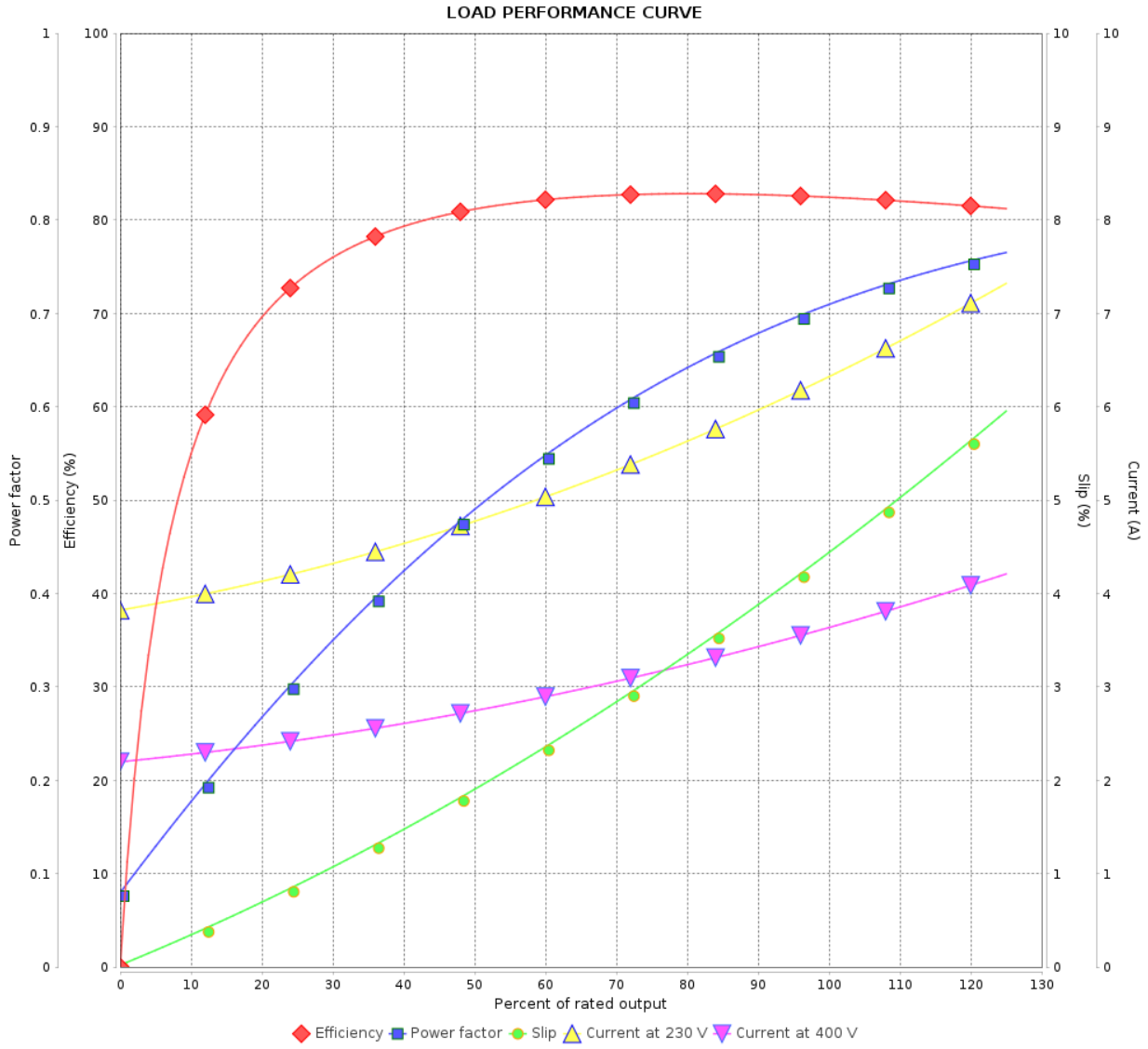
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12945361



Performance	: 230/400 V 50 Hz 6P		
Rated current	: 6.43/3.70 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 5.5	Duty cycle	: S1
Rated torque	: 15.0 Nm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 955 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	04/03/2025		3 / 4	

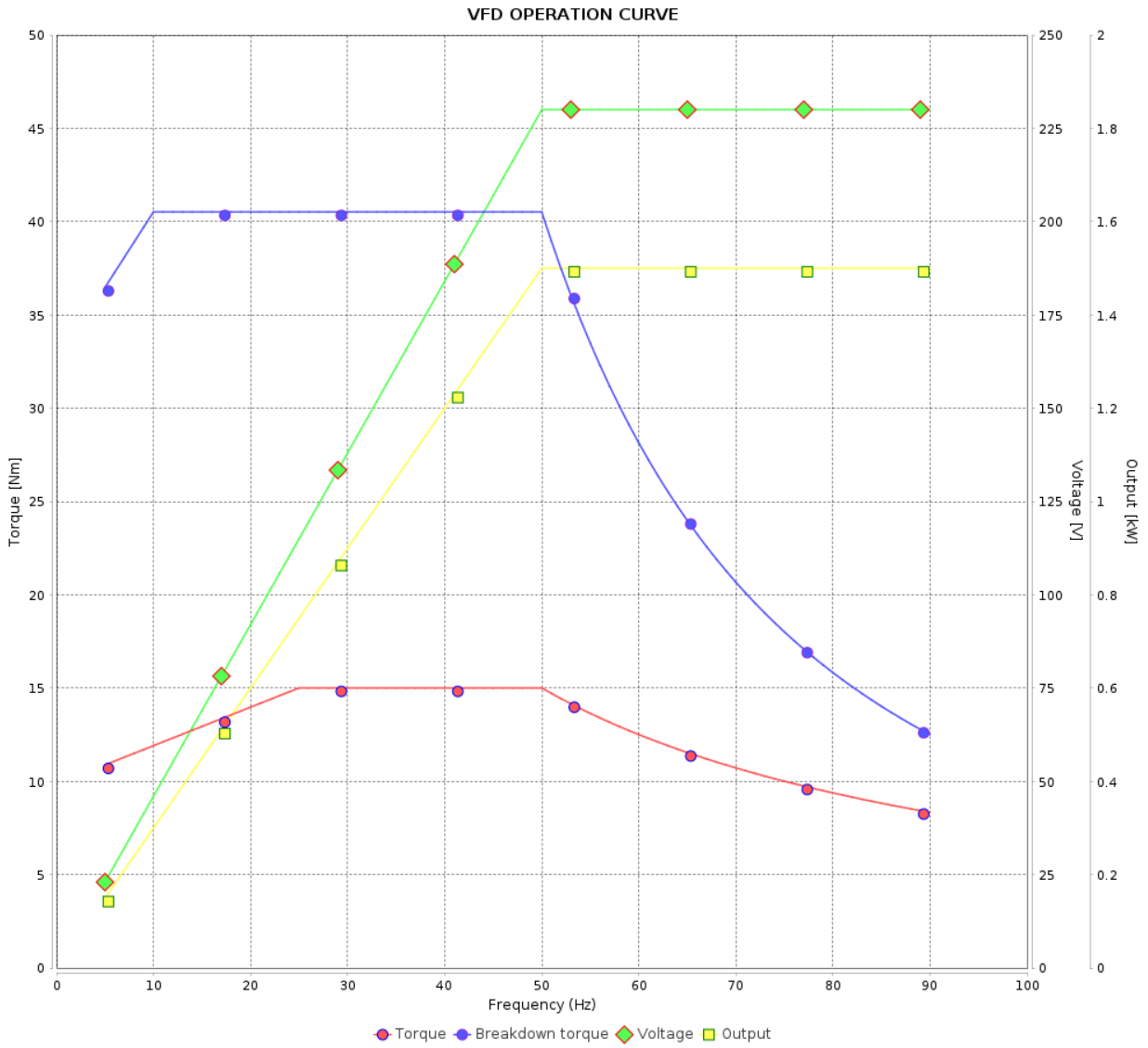
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12945361

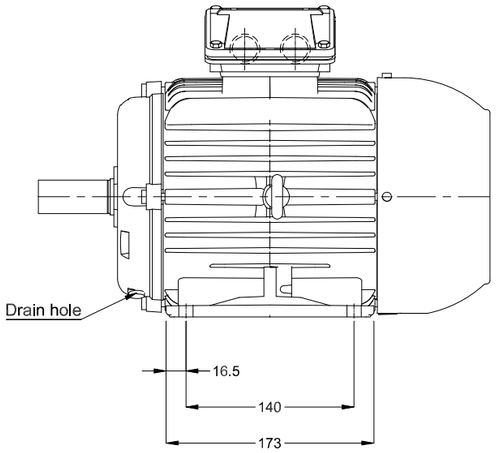


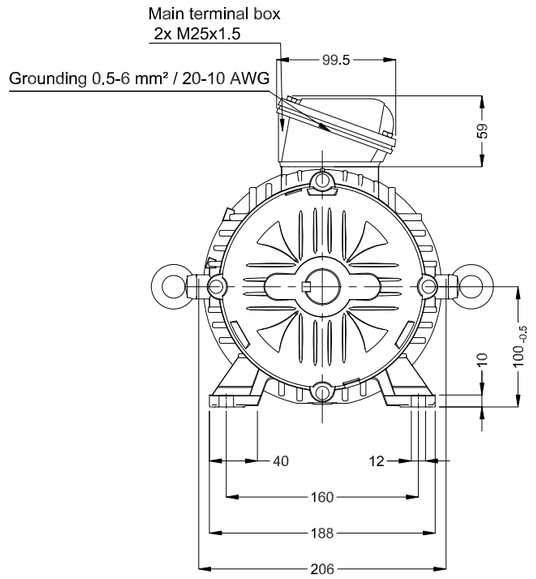
Performance	: 230/400 V 50 Hz 6P		
Rated current	: 6.43/3.70 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 5.5	Duty cycle	: S1
Rated torque	: 15.0 Nm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 955 rpm	Design	: N

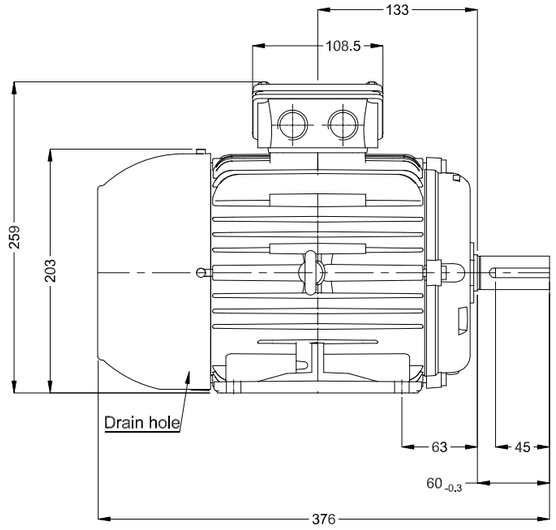
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	04/03/2025		4 / 4	

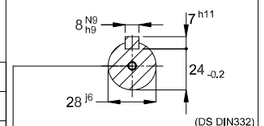
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice







DE Shaft End



DM10 WEG WPR-7339

Color RAL 5009

Painting plan 207A

Mounting B3T

1.5 kW 06 Poles 50 Hz | A

Scale 1 : 5

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 IE3

FRAME 100L IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in mm

A3

WEG's property. Forbidden reproduction without previous authorization.