DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	14722913

Frame	: 404/5TC	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 110 A	Protection degree	: IP23
L. R. Amperes	: 762 A	Cooling method	: IC01 - ODP
LRC	: 6.9x(Code G)	Mounting	: F-1
No load current	: 37.6 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level[2]	: 69.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 51.0 kgfm	Approx. weight[3]	: 491 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.08 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	95.0	95.4	95.4
Power Factor	0.75	0.83	0.86

Foundation loads

Max. traction	: 1058 kgf
Max. compression	: 1549 kgf

		Drive end	Non drive end
Bearing type	:	6316 C3	6212 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	34 g	13 g
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 NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date

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Date	29/10/2024		1 / 2	

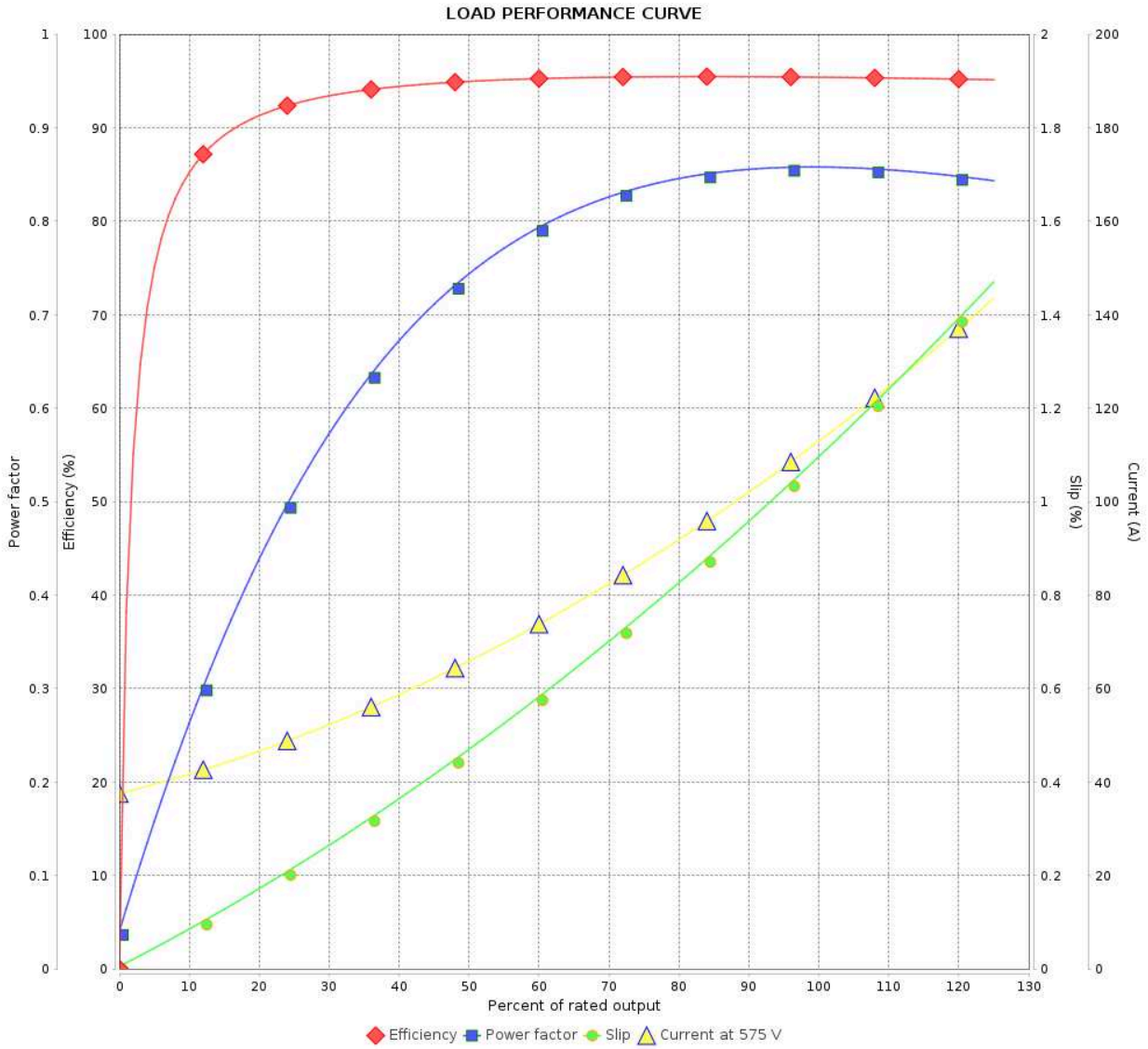
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	14722913



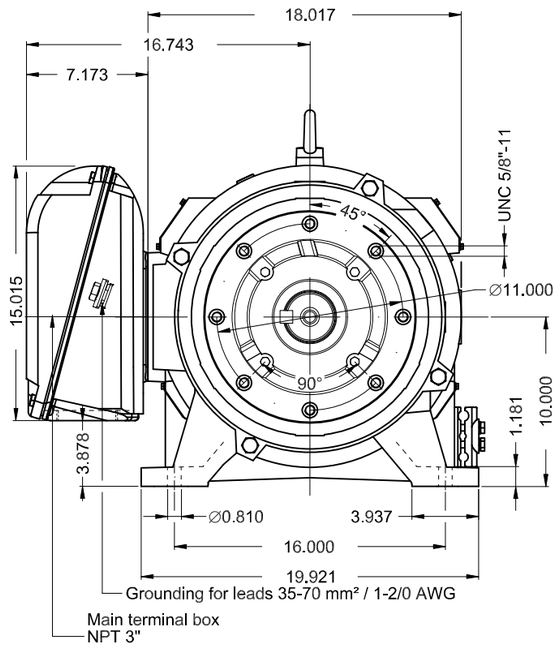
Performance	: 575 V 60 Hz 4P

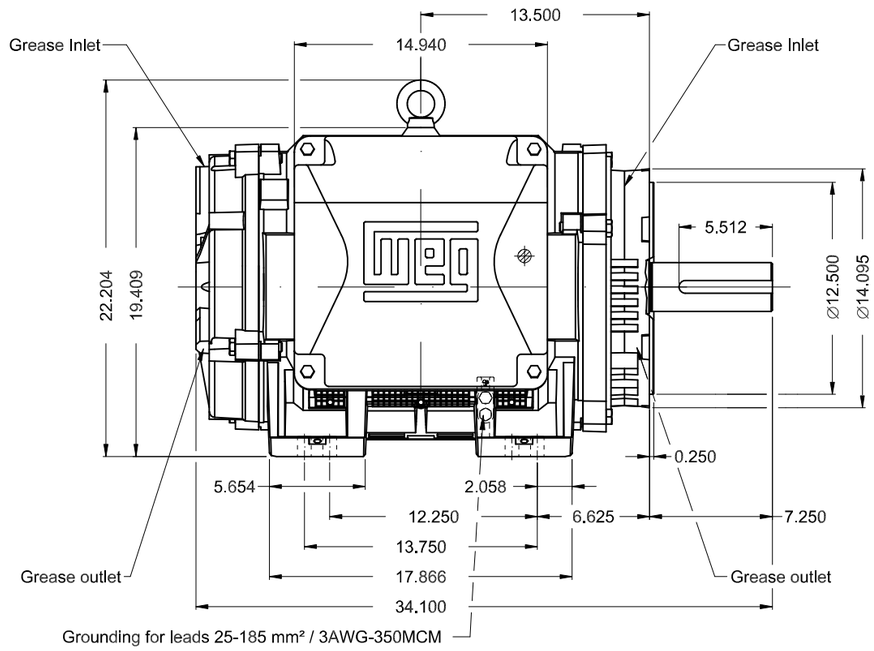
Rated current	: 110 A	Moment of inertia (J)	: 1.08 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 51.0 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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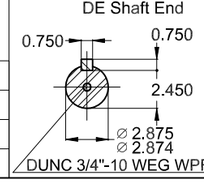
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DE Shaft End



DUNC 3/4"-10 WEG WPR-7339

Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34D

125 HP 04 Poles 60 Hz | A

1:9

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR W40 NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 404/5TC IP23 ODP	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches

XME A3

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