

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 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.0	95.4	95.4	Max. traction	: 1058 kgf
Power Factor	0.75	0.83	0.86	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
Performed by		Page Revision 1 / 2		
Checked by				
Date	29/10/2024			

LOAD PERFORMANCE CURVE

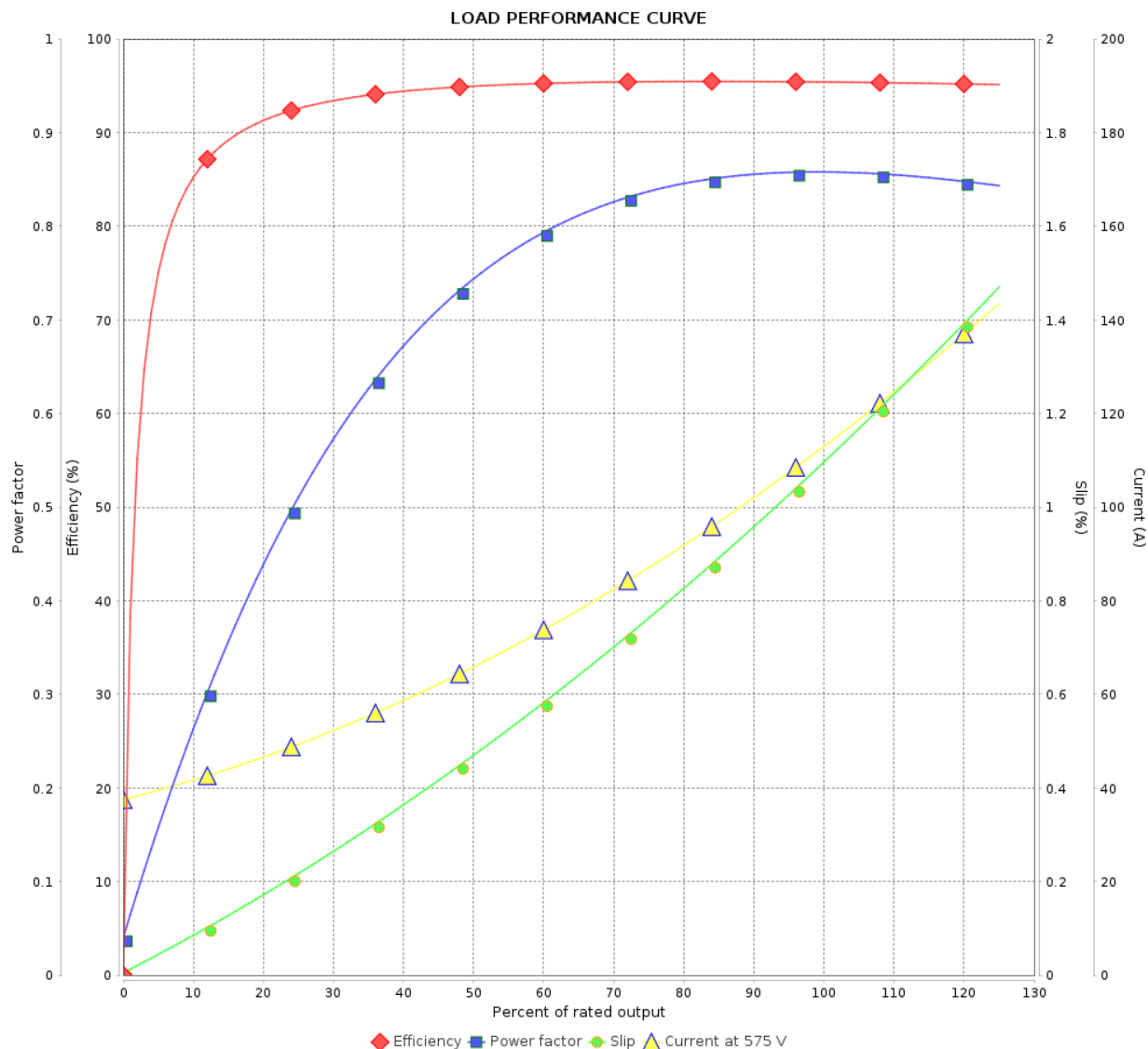
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

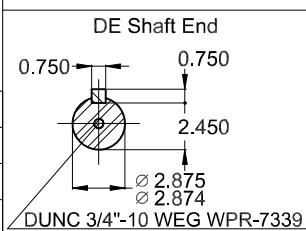
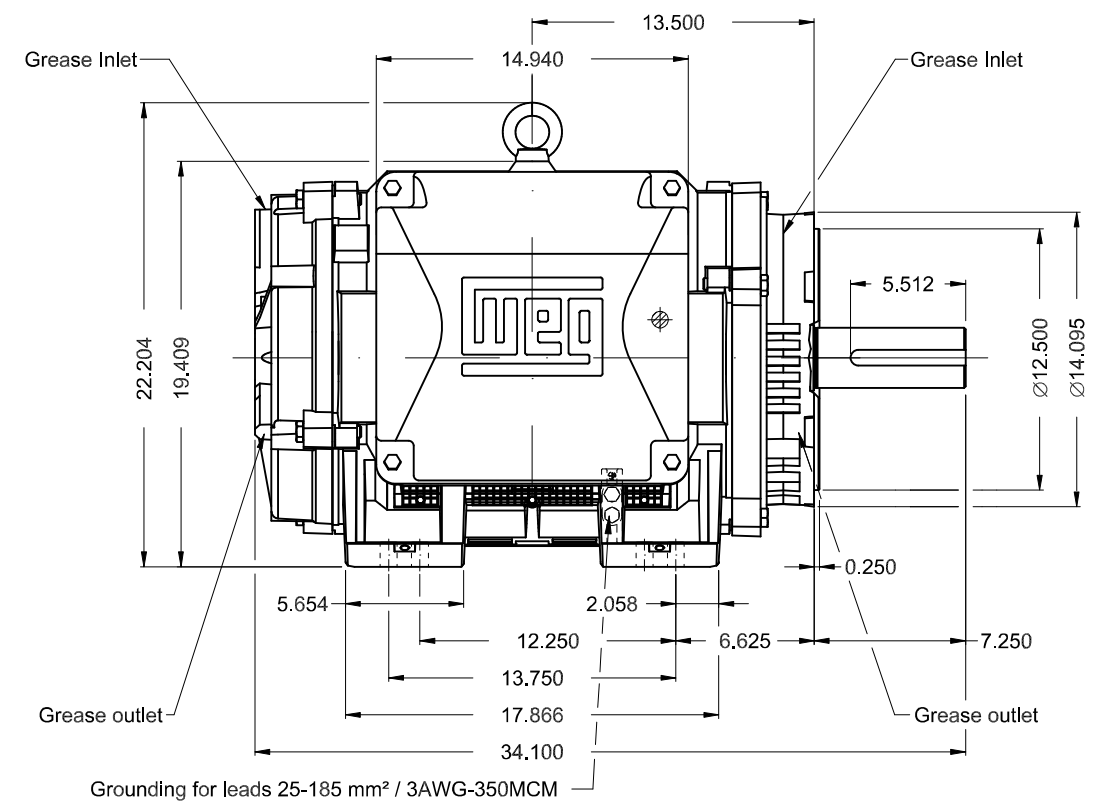
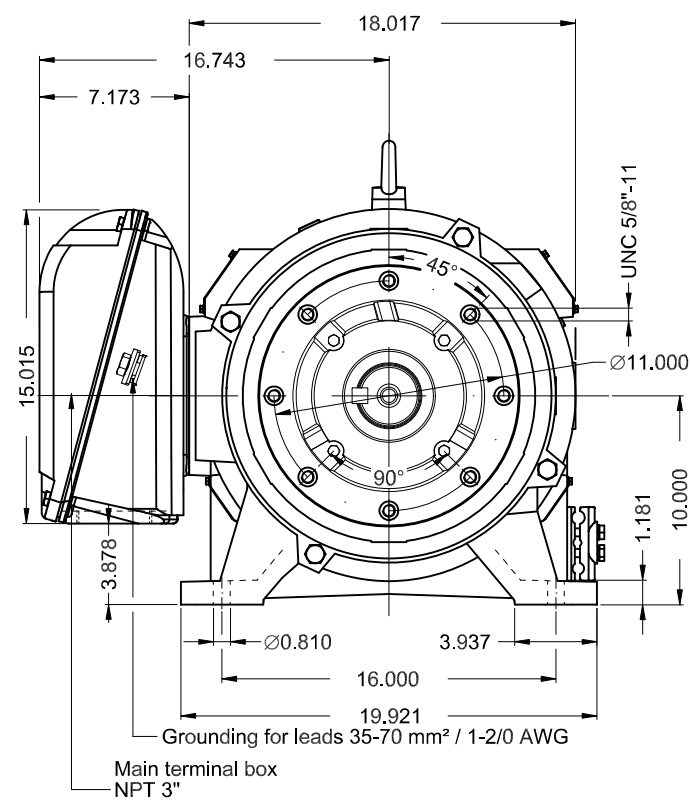
Product code : 14722913





Performance : 575 V 60 Hz 4P

Rated current	: 110 A	Moment of inertia (J)	: 1.08 kgm ²
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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	29/10/2024				



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

125 HP 04 Poles 60 Hz										A	
								1:9			
							HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W40 NEMA PREM. EFF. FRAME 404/5TC IP23 ODP					PREVIEW WDD 00			
CHECKED											
RELEASED											
REL. DATE		WMO	Jaragua do Sul			Product Engineering		SHEET	1 / 1		