

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Standard Efficiency Three-Phase Product code : 14208923

Frame	: 444/5T	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 10	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	: 46.0 A	Protection degree	: IP55
L. R. Amperes	: 368 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code L)	Mounting	: F-1
No load current	: 26.8 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 710 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 40.9 kgfm	Approx. weight ³	: 673 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.59 kgm ²		
Design	: A		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.1	91.0	91.0	Max. traction	: 736 kgf
Power Factor	0.51	0.64	0.72	Max. compression	: 1409 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	45 g	34 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 1 / 2 Revision		
Checked by				
Date	27/10/2024			

LOAD PERFORMANCE CURVE

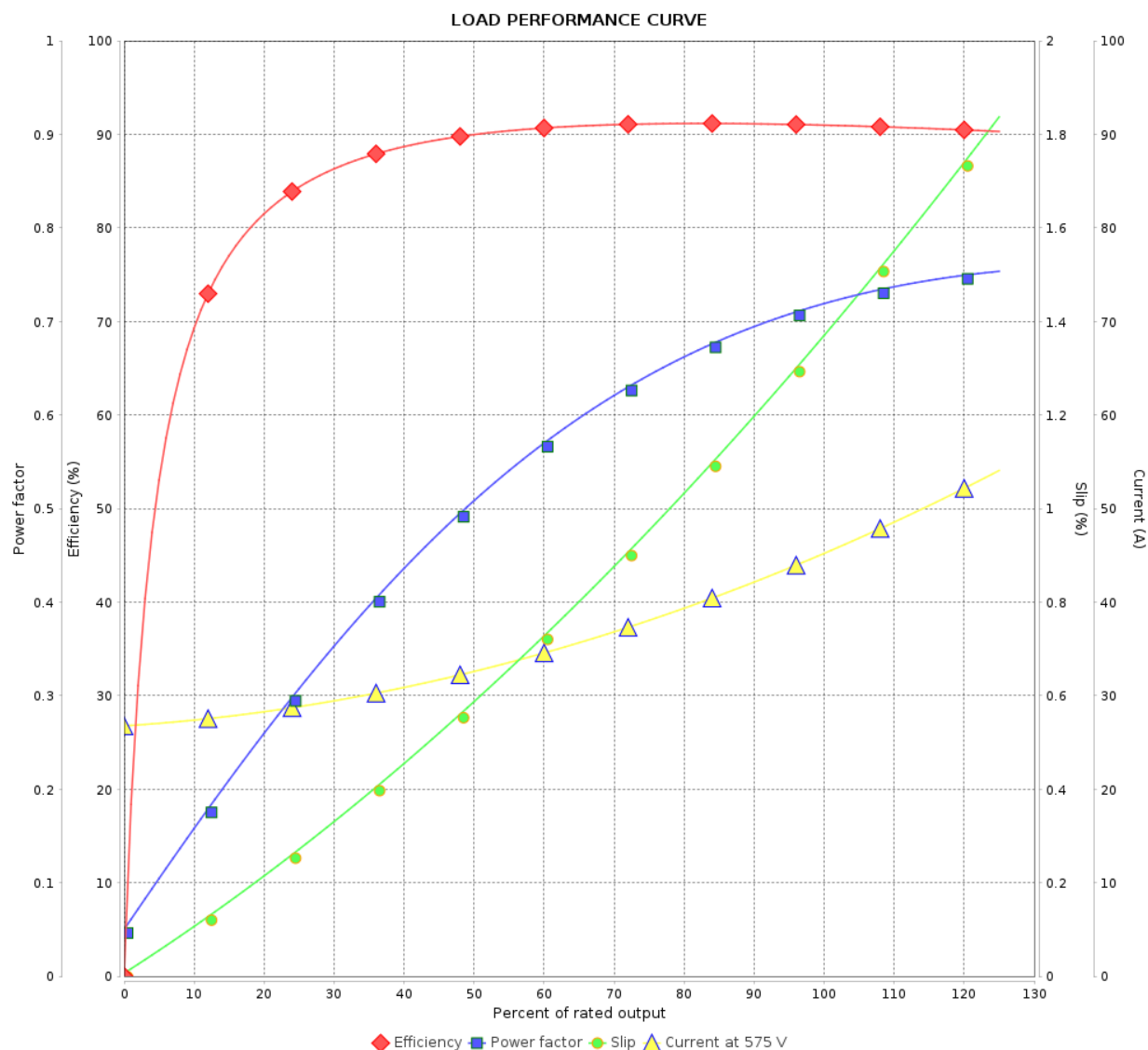
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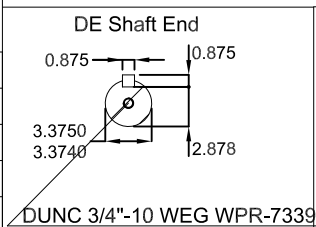
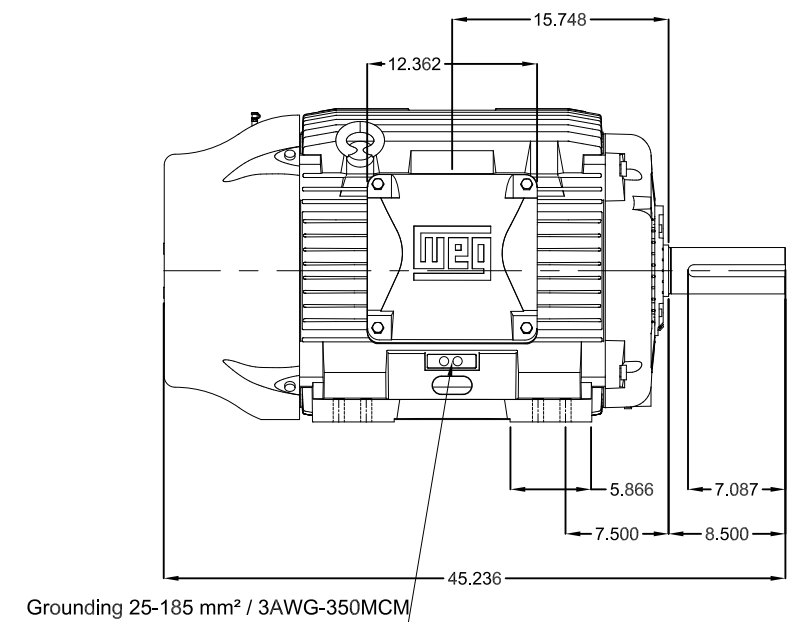
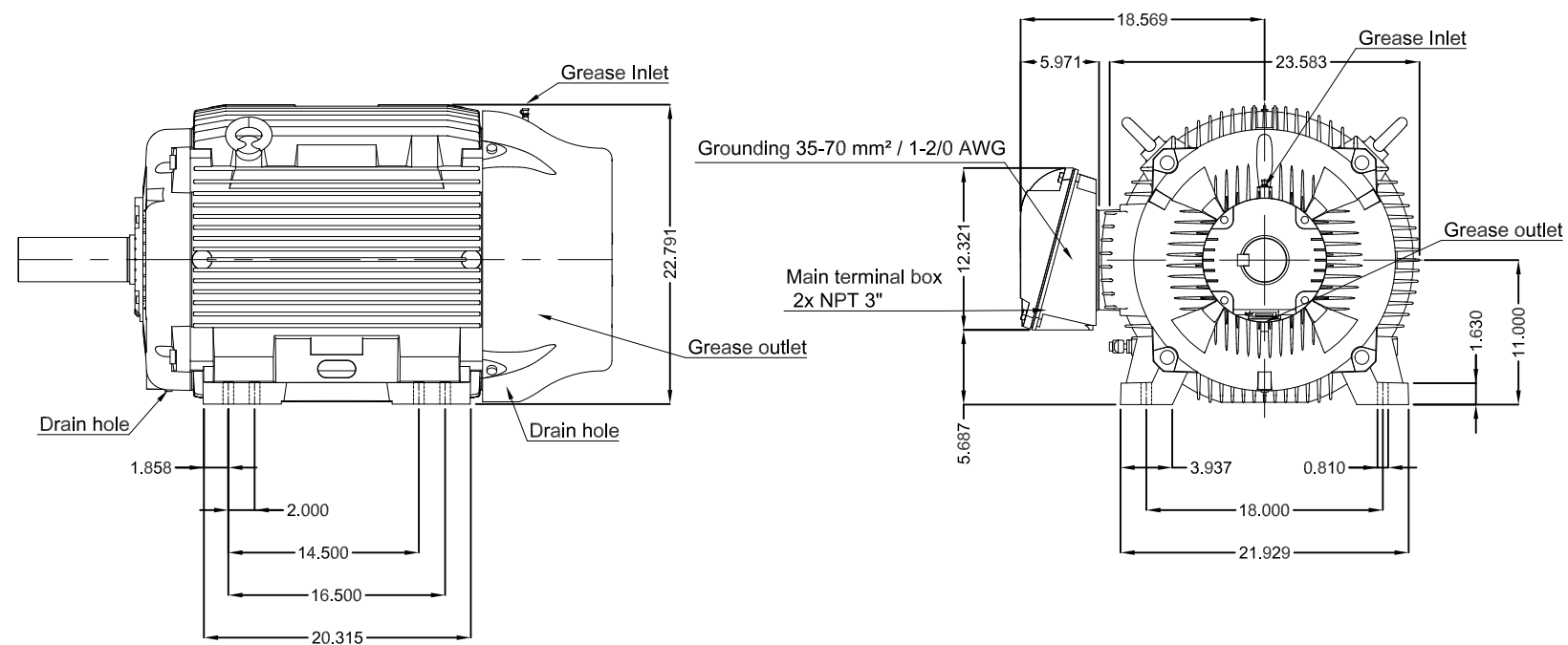




Performance : 575 V 60 Hz 10P

Rated current : 46.0 A
LRC : 8.0
Rated torque : 40.9 kgfm
Locked rotor torque : 200 %
Breakdown torque : 300 %
Rated speed : 710 rpm

Moment of inertia (J) : 2.59 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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



40 HP 10 Poles 60 Hz										A	
								HYBRISUSER			00
ECM		LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 FRAME 444/5T IP55 TEFC					PREVIEW			
CHECKED											
RELEASED											
REL. DATE								WDD			
							SHEET		/		