

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	15460791			
Catalog # :	20018ST3HIERB447T-W2			
Frame : 445/7T Output : 200 HP (150 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 184 A L. R. Amperes : 1251 A LRC : 6.8x(Code G) No load current : 56.0 A Rated speed : 1785 rpm Slip : 0.83 % Rated torque : 588 ft.lb Locked rotor torque : 229 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 76.2 sq.ft.lb Design : B	Locked rotor time : 28s (cold) 16s (hot) Temperature rise : 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 : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 73.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 2325 lb			
Output	25% 50% 75% 100%			
Efficiency (%)	95.7 95.8 96.2 96.2			
Power Factor	0.50 0.73 0.82 0.85			
Foundation loads				
Max. traction : 2758 lb				
Max. compression : 5084 lb				
Bearing type	: <u>Drive end</u> NU-319 C3 <u>Non drive end</u> 6316 C3			
Sealing	: Inpro/Seal Inpro/Seal			
Lubrication interval	: 5000 h 10000 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.				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



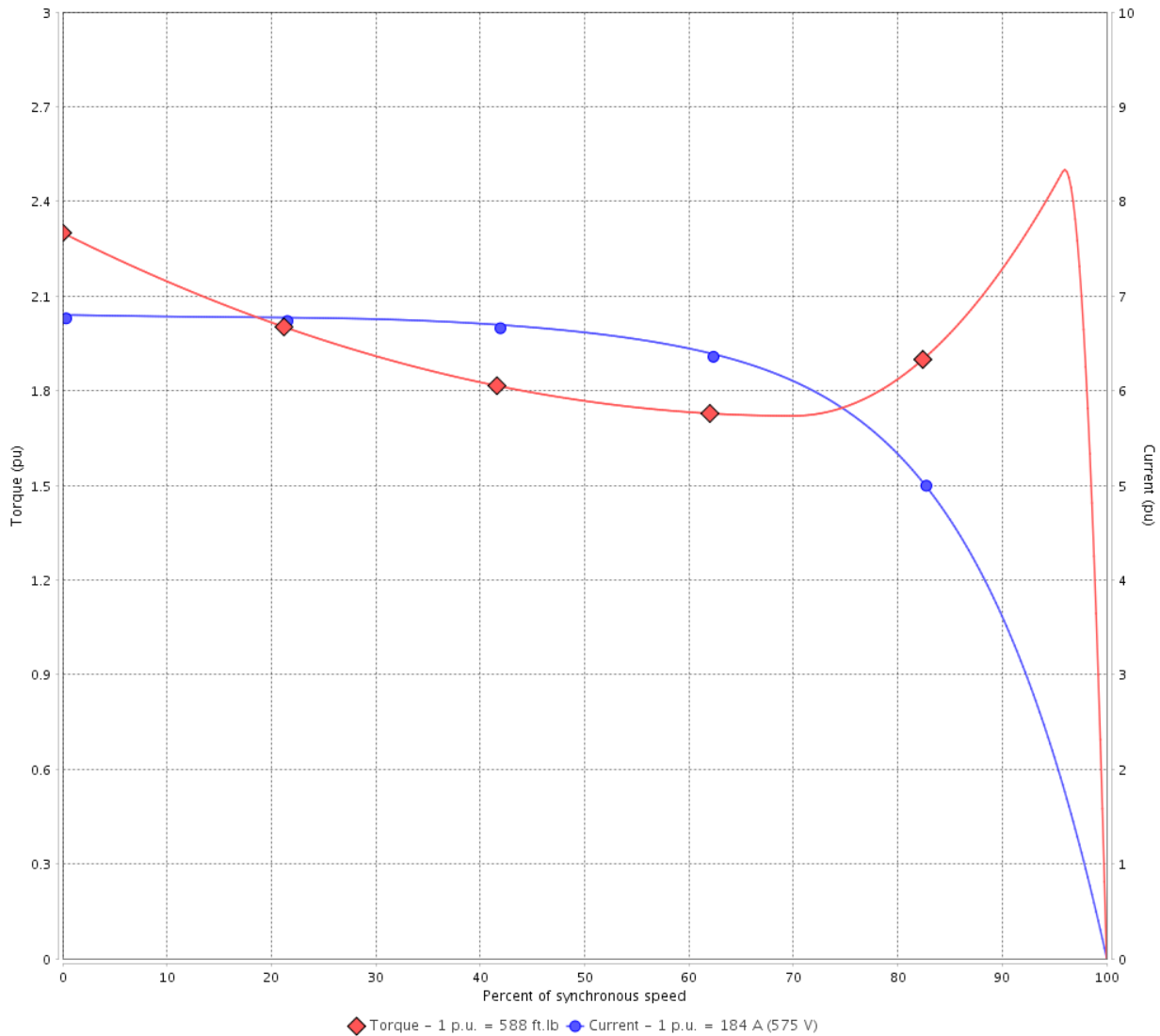
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 184 A	Moment of inertia (J)	: 76.2 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 588 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: B

Locked rotor time : 28s (cold) 16s (hot)

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LOAD PERFORMANCE CURVE

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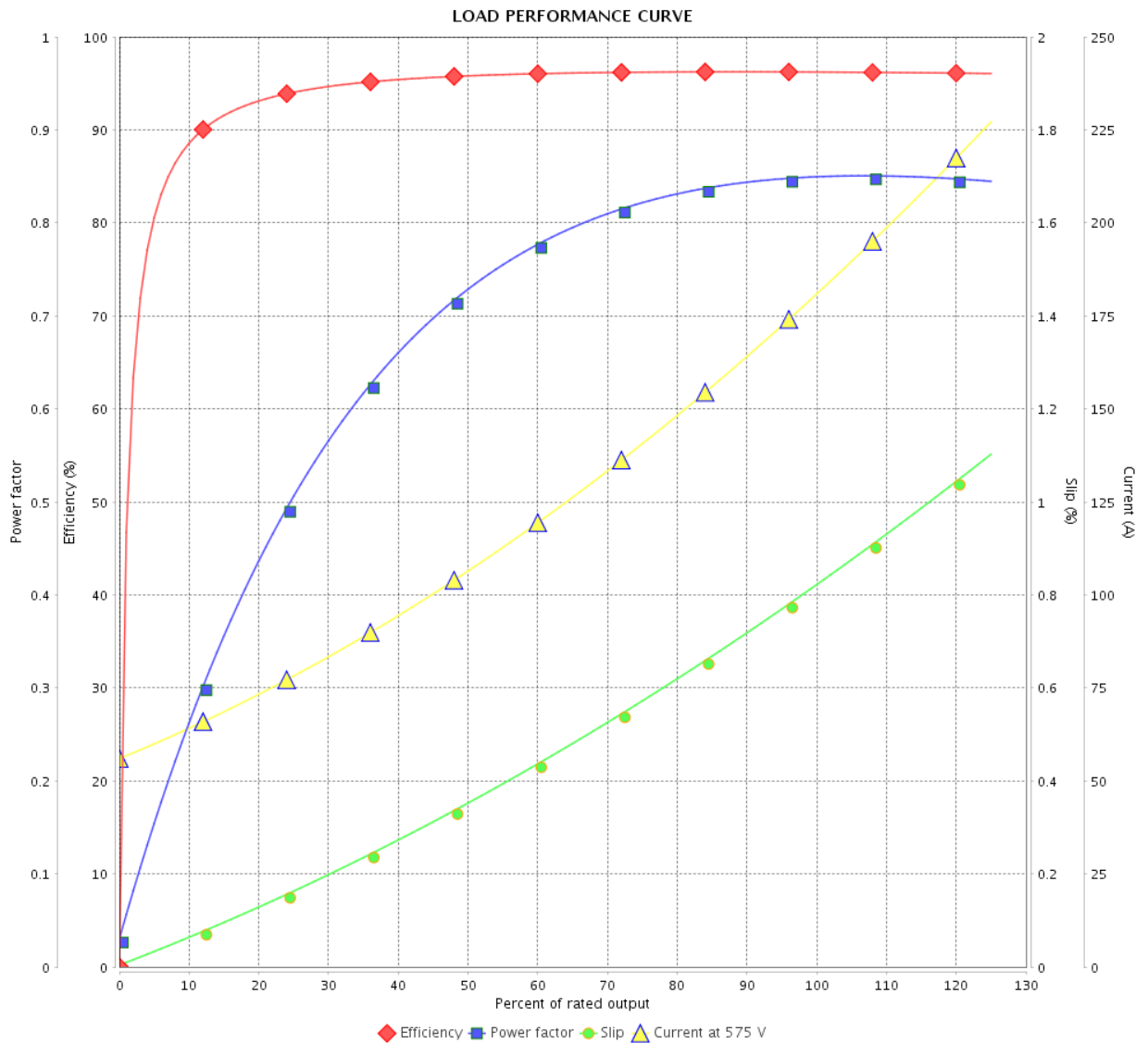


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 Design : B

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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

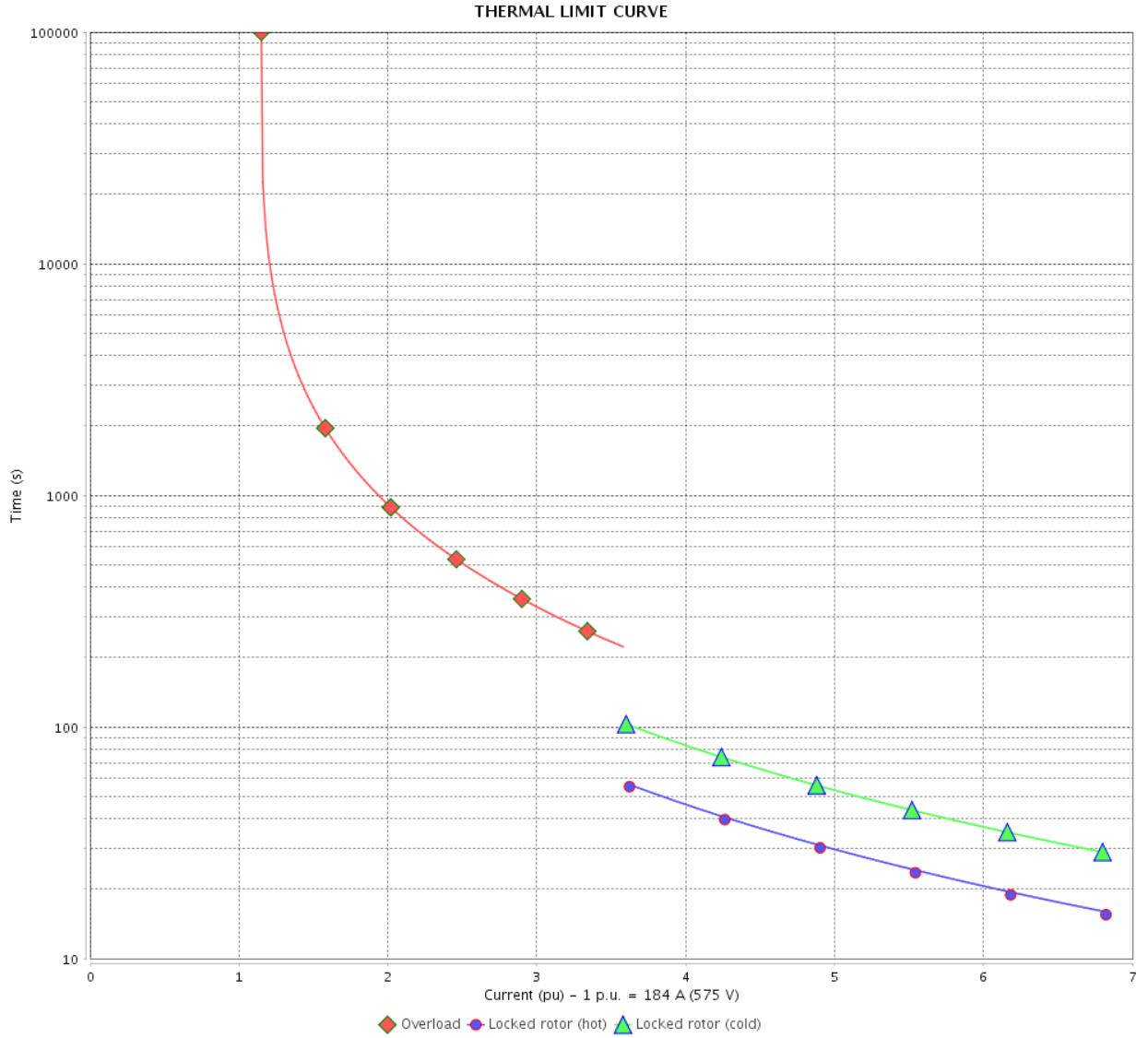
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

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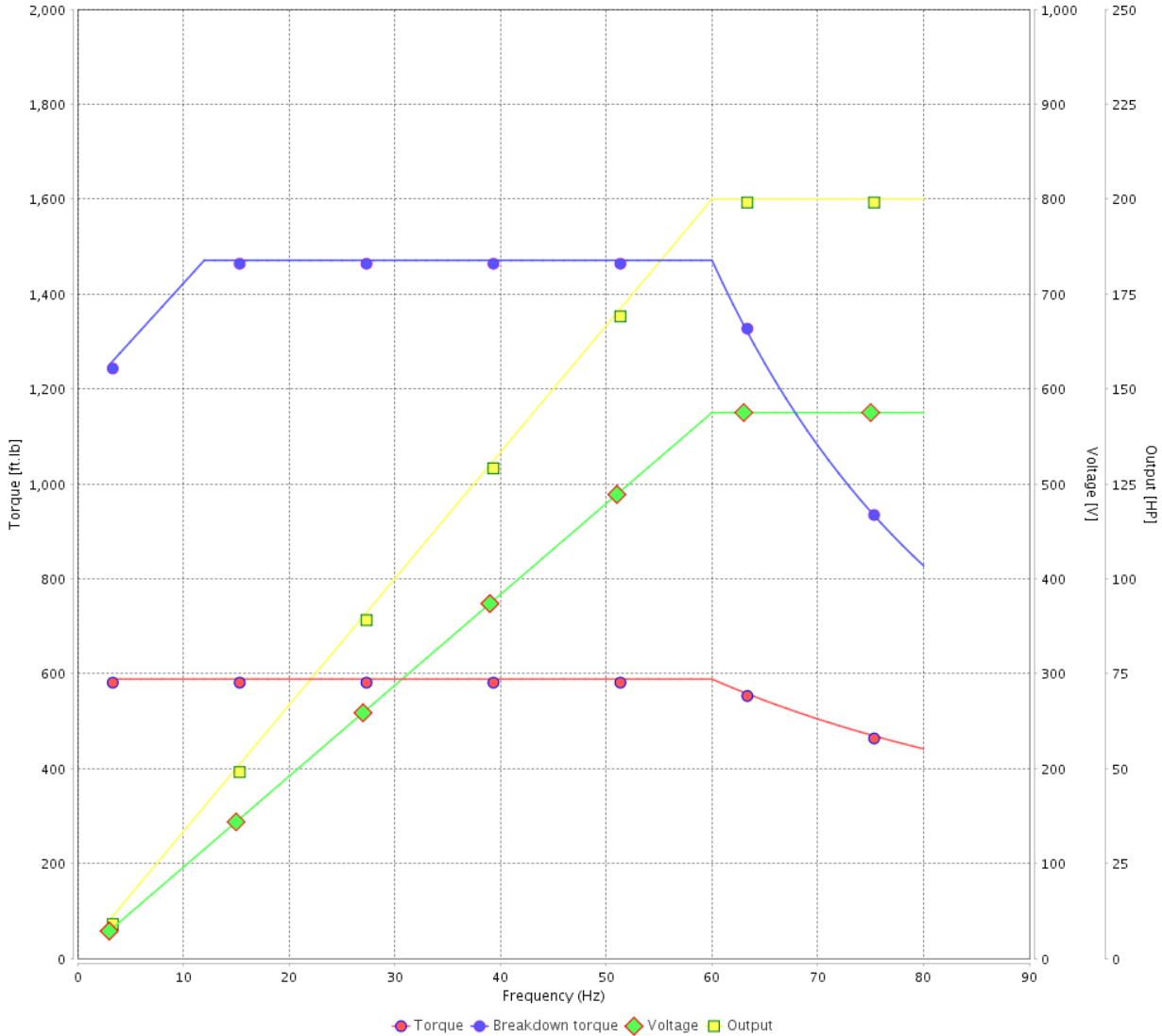
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VFD OPERATION CURVE

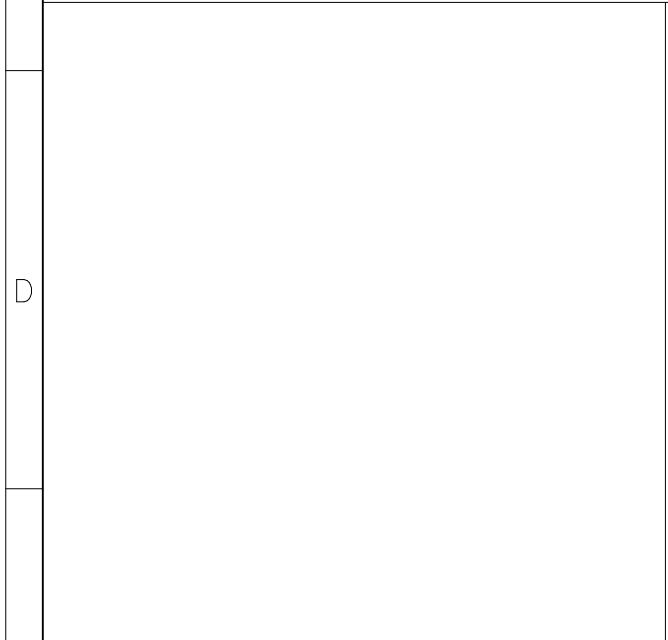
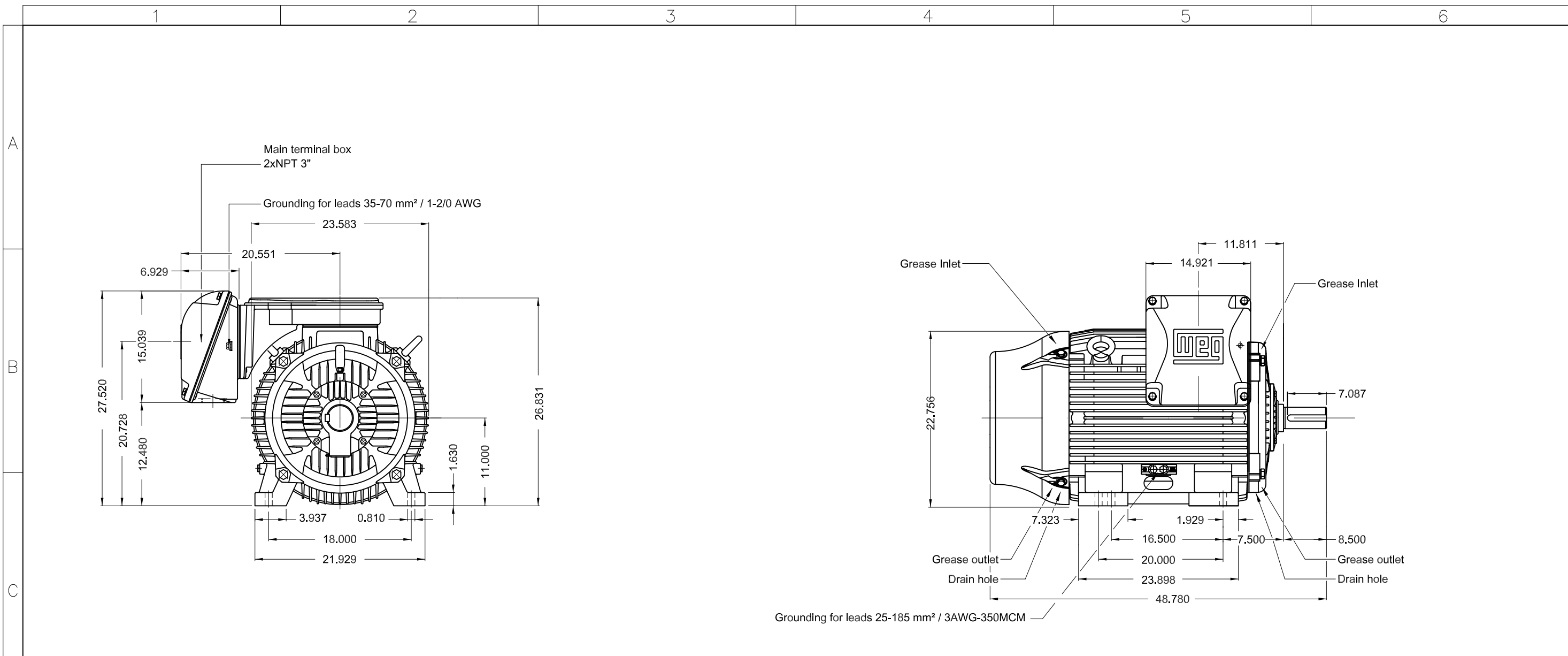


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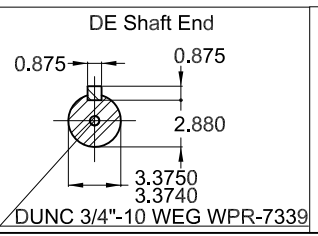
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Bronze fan
DE roller bearing
Shaft locking device
Color RAL 5009
Painting plan 202E
Mounting NEMA F-1
Mounting B3R(D)



200 HP 04 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR IEEE 841 W22 PREM. EFF.					
CHECKED		FRAME 445/7T IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering				

PREVIEW
WDD

