

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	13503287			
Catalog # :	25012ET3HKD580Z-W22			
Frame : 586/7TZ Output : 250 HP (185 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 575 V Rated current : 242 A L. R. Amperes : 1476 A LRC : 6.1x(Code G) No load current : 105 A Rated speed : 1193 rpm Slip : 0.58 % Rated torque : 1100 ft.lb Locked rotor torque : 210 % Breakdown torque : 229 % Insulation class : F Service factor : 1.15 Design : A	Locked rotor time : 54s (cold) 30s (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 : 77.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 3206 lb			
Output	25% 50% 75% 100%			
Efficiency (%)	0.000 95.0 95.4 95.8			
Power Factor	0.00 0.67 0.76 0.80			
Foundation loads				
Max. traction	: 3677 lb			
Max. compression	: 6883 lb			
Bearing type	: <u>Drive end</u> NU-324 C3 <u>Non drive end</u> 6319 C3			
Sealing	: Taconite Labyrinth Taconite Labyrinth			
Lubrication interval	: 6000 h 13000 h			
Lubricant amount	: 72 g 45 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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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Space heater information

Voltage: 200 - 240 V

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TORQUE AND CURRENT VS SPEED CURVE



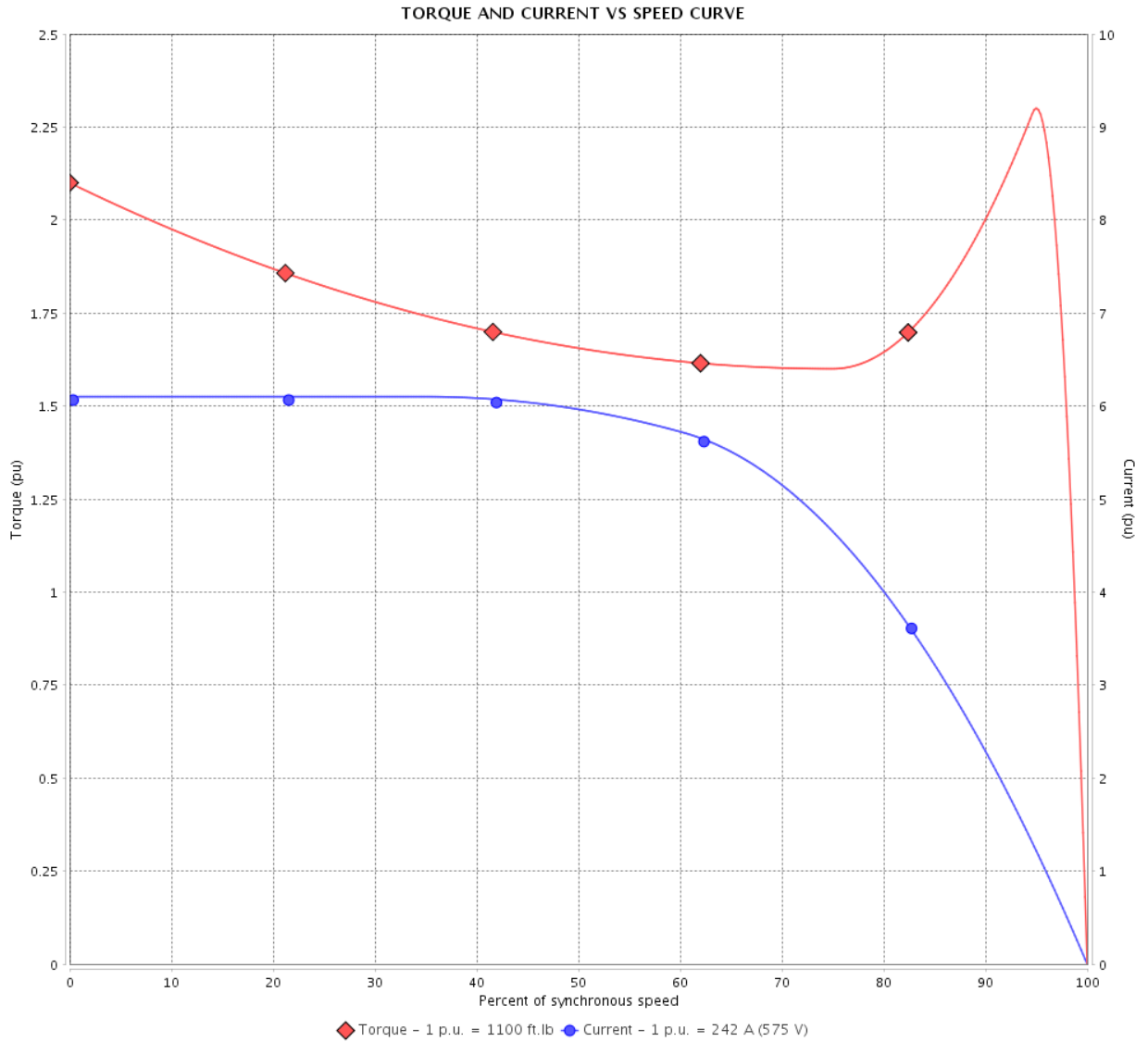
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Performance : 575 V 60 Hz 6P

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 LRC : 6.1
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 Breakdown torque : 229 %
 Rated speed : 1193 rpm

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

Locked rotor time : 54s (cold) 30s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

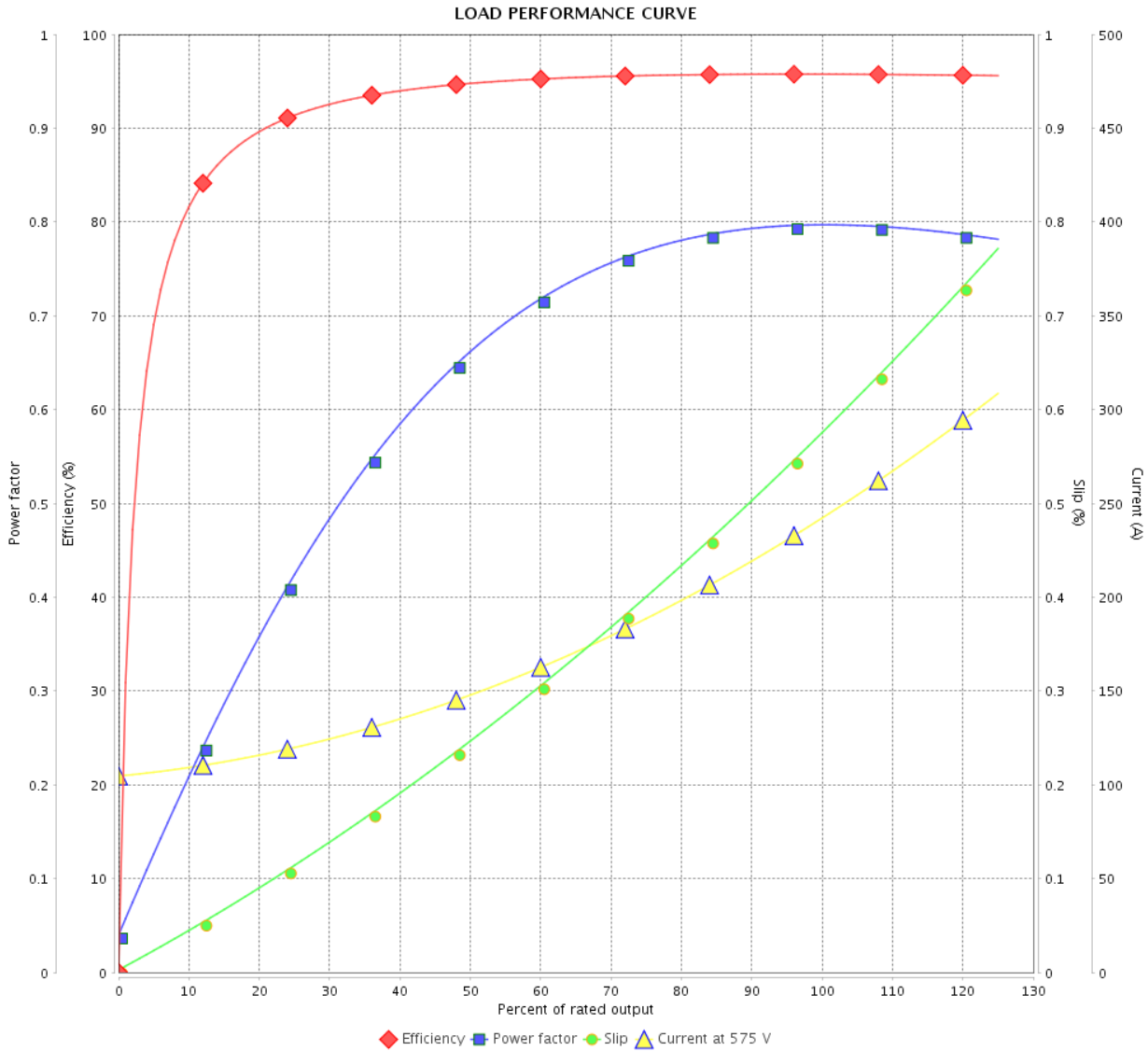


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THERMAL LIMIT CURVE



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Locked rotor torque : 210 %	Service factor : 1.15
Breakdown torque : 229 %	Temperature rise : 80 K
Rated speed : 1193 rpm	Design : A

Heating constant

Cooling constant

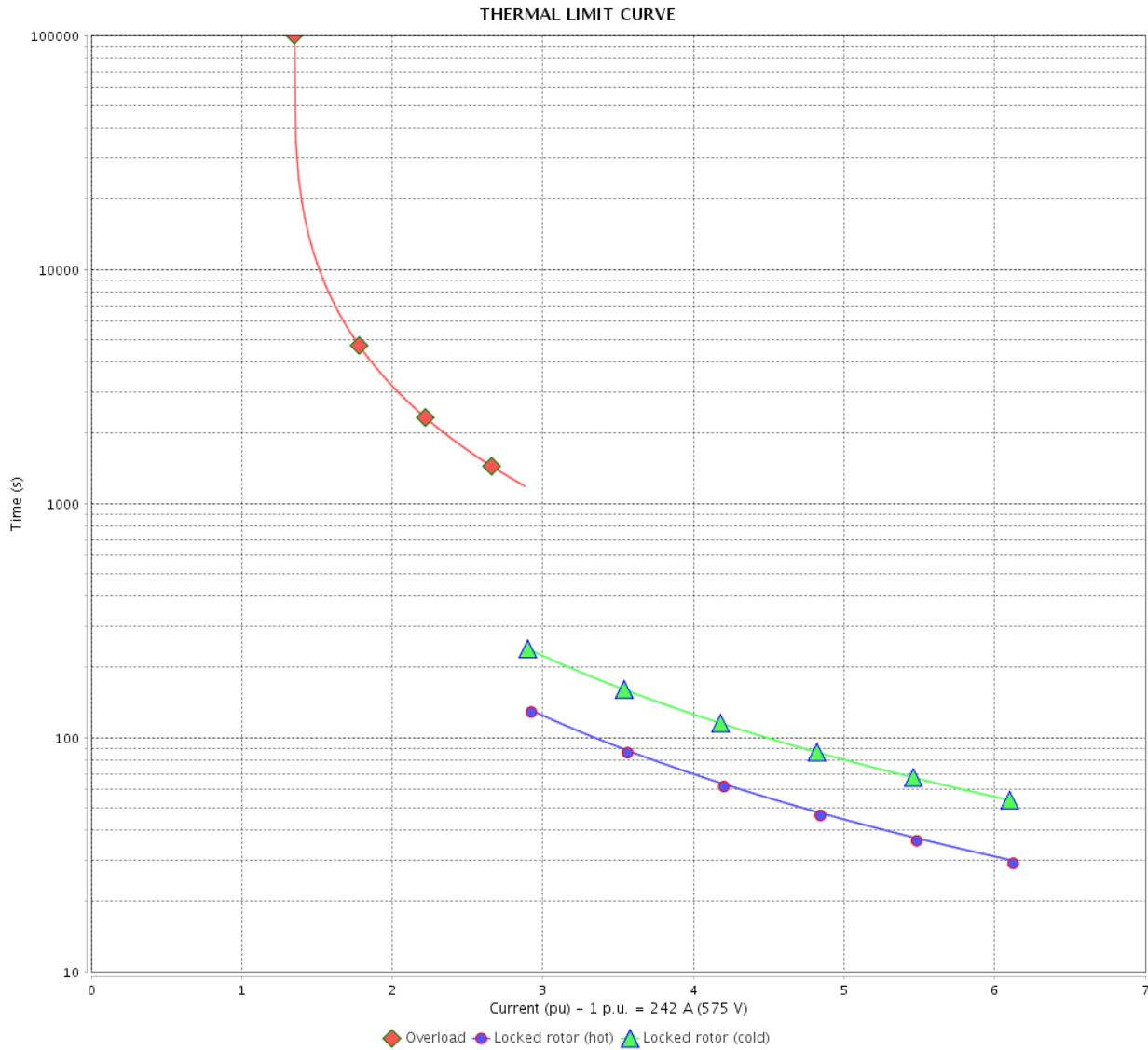
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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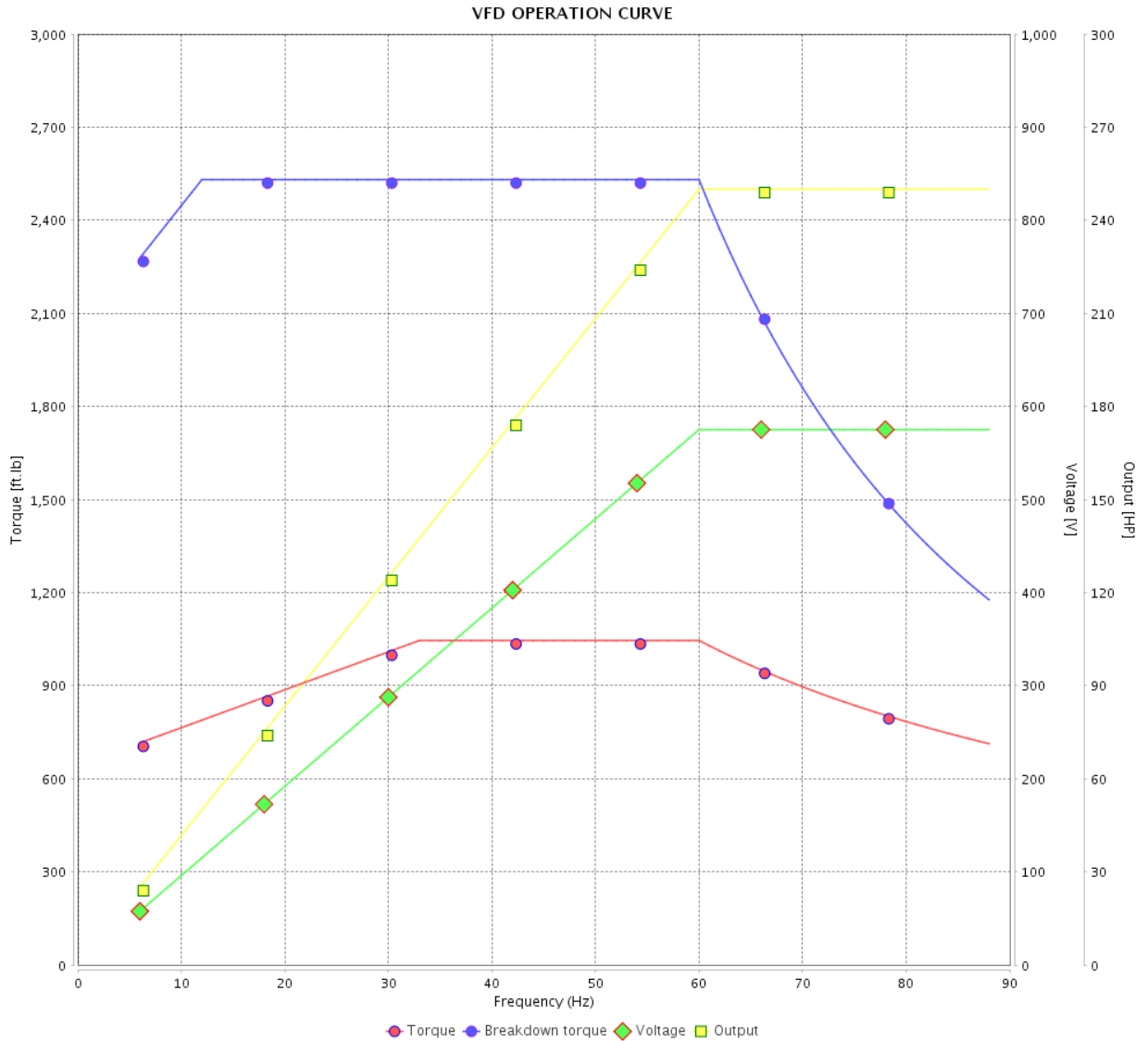
VFD OPERATION CURVE

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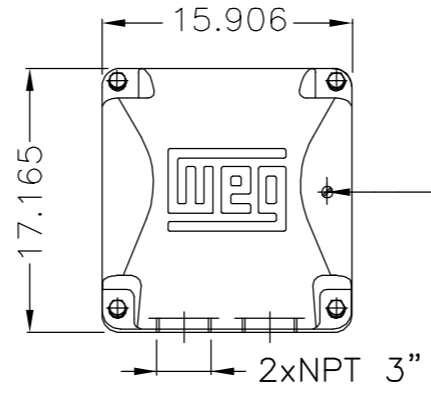
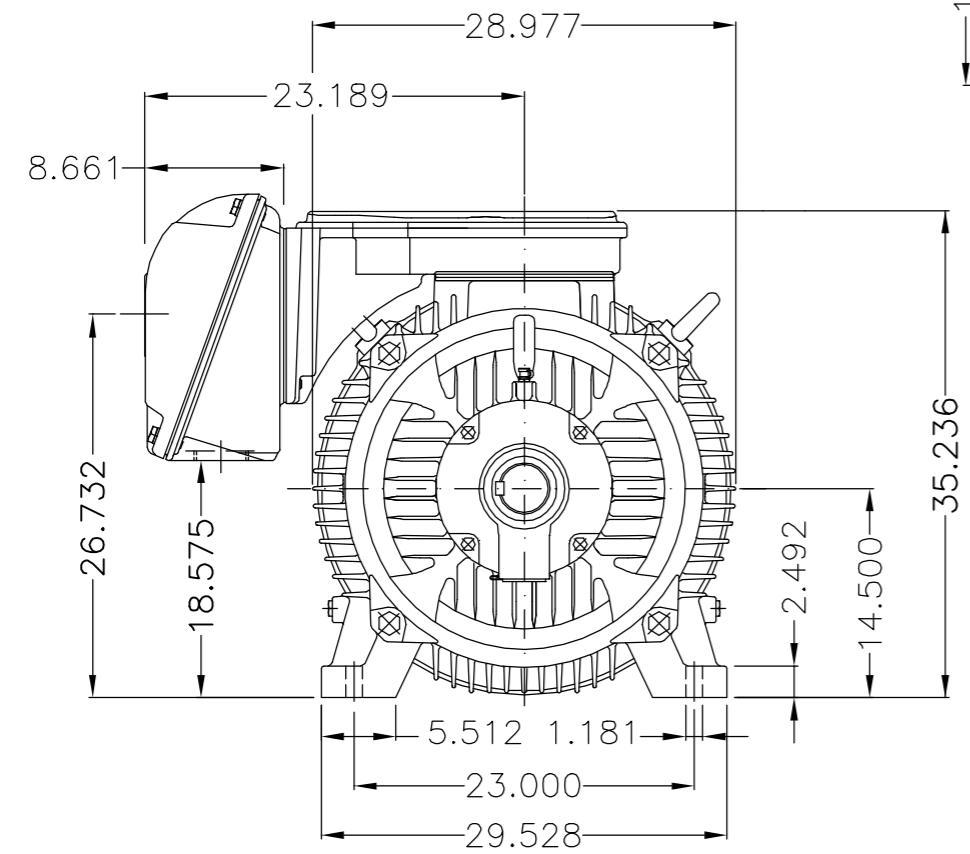
EIXO/SHAFT	
PADRÃO/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	X

Dimensões em polegada
Dimensions in inches

CERTIFIED WEG MOTORES
Certified document.
Not subject to changes.

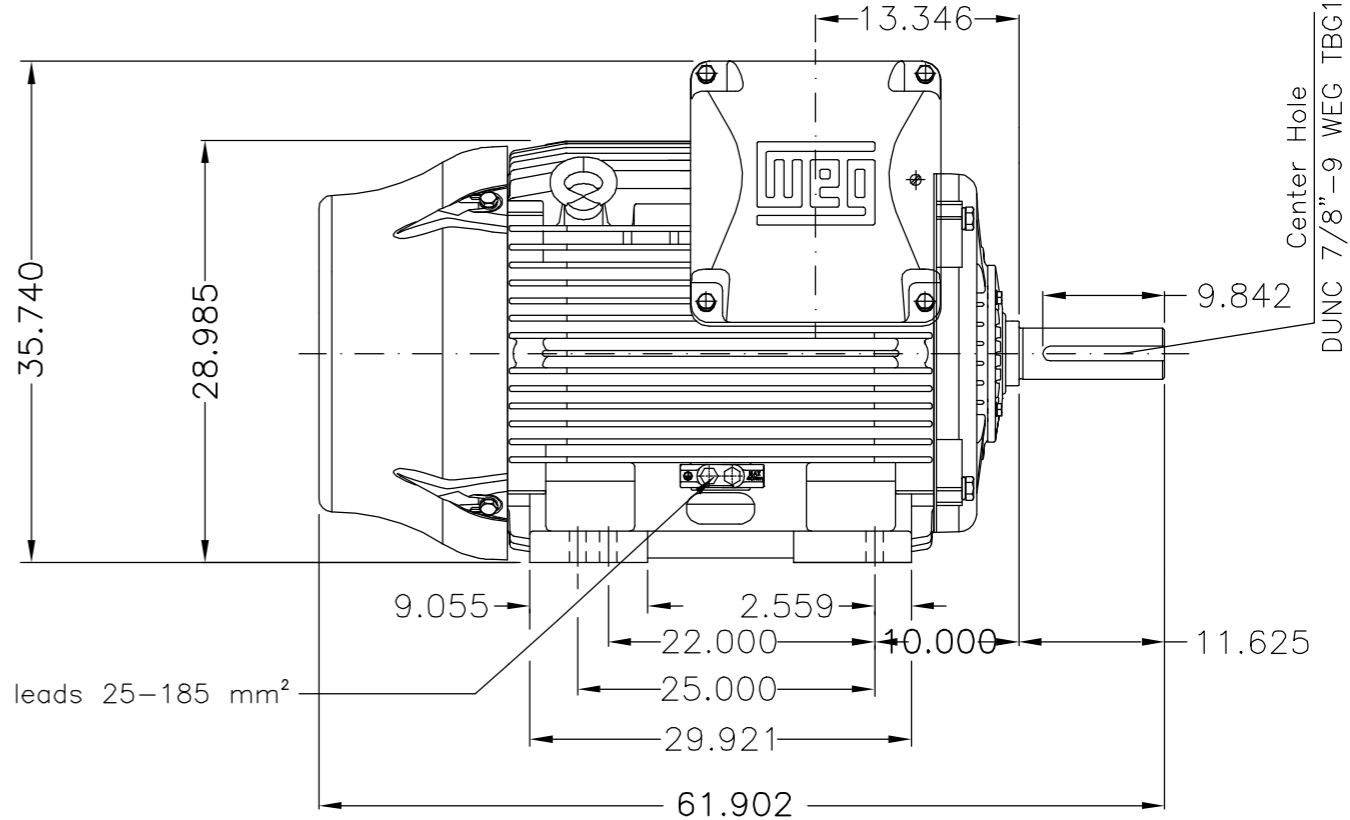
THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

A
B
C
D
E

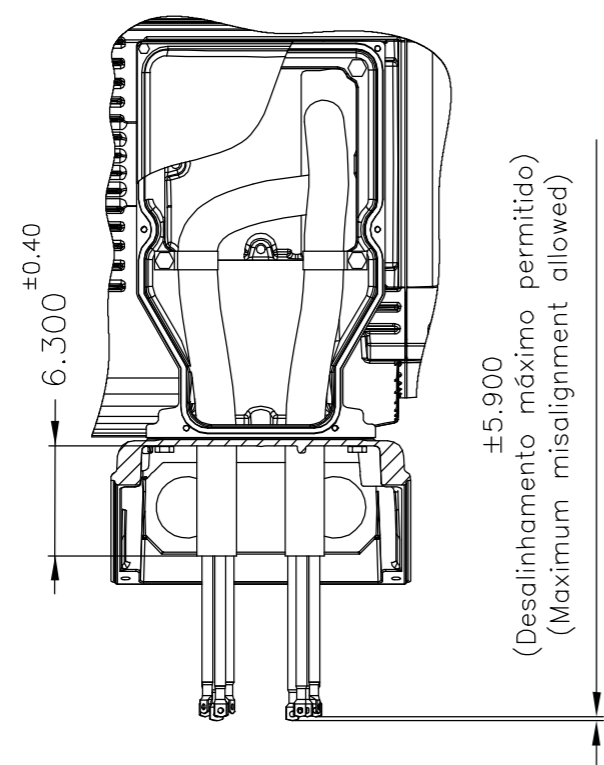


Main terminal box

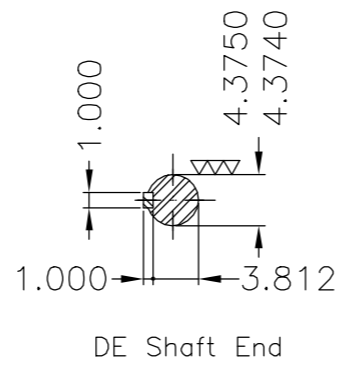
Grounding for leads 35-120 mm²



Grounding for leads 25-185 mm²



(Desalinhamento máximo permitido)
(Maximum misalignment allowed)



DE Shaft End

- Categoria A / Design A
- Proteção térmica desligamento - termostato 155°C / Thermostats 155°C to trip
- Tampa dianteira especial / Special DE endshield
- Conduite para cabos no interior do suporte da caixa de ligação
- Cables conduit inside terminal box support
- Linha do motor: Crusher Duty / Motor purpose: Crusher Duty
- Rolamento dianteiro de rolos NU-324 / NU-324 DE roller bearing
- Dispositivo de travamento de eixo / Shaft locking device
- Tampa traseira com mancal eletricamente isolado
- NDE endshield with electrically insulated bearing hub
- Cor RAL 5009 / Color RAL 5009
- Plano de pintura 203A / Painting plan 203A
- Forma construtiva NEMA F-1 / Mounting NEMA F-1
- Forma construtiva B3D / Mounting B3R(D)

WEG ELECTRIC CORPORATION - WEC

500001323616		ALTERADO CONFORME CDP 414658625	MENSOR		JMANENTE	20.06.2017	03
500001317820		ALTERADO CONFORME CLAIM 414658625	AKLOSOWSKI		JMANENTE	01.06.2017	02
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	DVEGINI	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF FRAME 586/7TZ IP55			10004037876		
CHECKED					000 03		
RELEASED	NSCHMIDT						
REL DT	22.01.2016		WMO	Jaraguá do Sul			

250 HP 06 Poles 60Hz 414149566/0 MEC

A

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RELEASED

ZME A3