

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	13500648			
Catalog # :	30018ET3GKD580Z-W22			
Frame : 586/7TZ Output : 300 HP (220 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 460 V Rated current : 350 A L. R. Amperes : 2520 A LRC : 7.2x(Code H) No load current : 130 A Rated speed : 1791 rpm Slip : 0.50 % Rated torque : 880 ft.lb Locked rotor torque : 229 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Design : A	Locked rotor time : 63s (cold) 35s (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 : 78.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 3080 lb			
Output	25% 50% 75% 100%			
Efficiency (%)	0.000 95.4 95.8 96.2			
Power Factor	0.00 0.70 0.80 0.82			
Foundation loads				
Max. traction	: 3231 lb			
Max. compression	: 6311 lb			
Bearing type	: <u>Drive end</u> NU-324 C3 <u>Non drive end</u> 6319 C3			
Sealing	: Taconite Labyrinth Taconite Labyrinth			
Lubrication interval	: 3000 h 8000 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



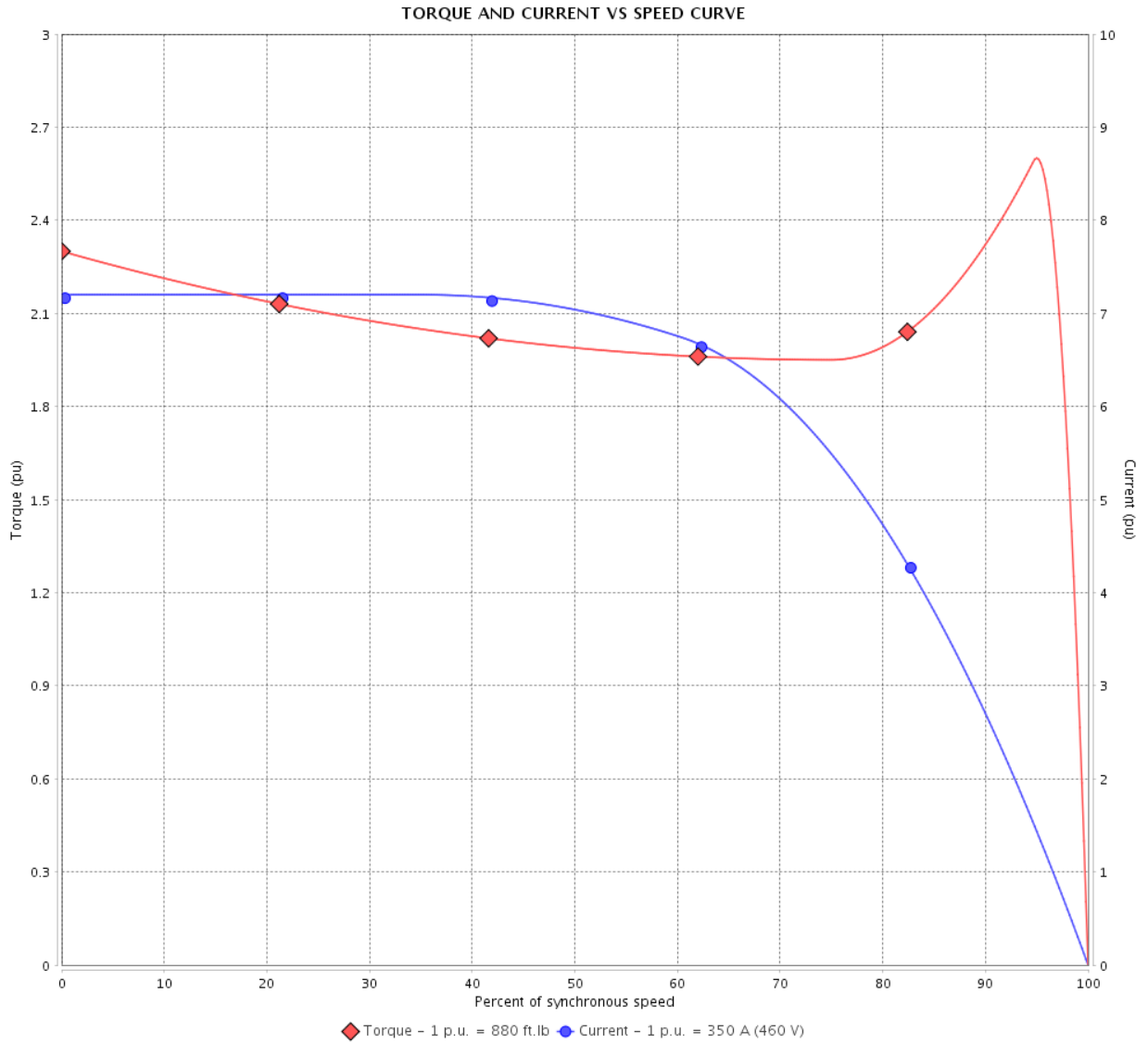
Three Phase Induction Motor - Squirrel Cage

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Product line : NEMA Premium Efficiency Three-Phase

Product code : 13500648

Catalog # : 30018ET3GKD580Z-W22



Performance : 460 V 60 Hz 4P

Rated current	: 350 A	Moment of inertia (J)	
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 880 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1791 rpm	Design	: A

Locked rotor time : 63s (cold) 35s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

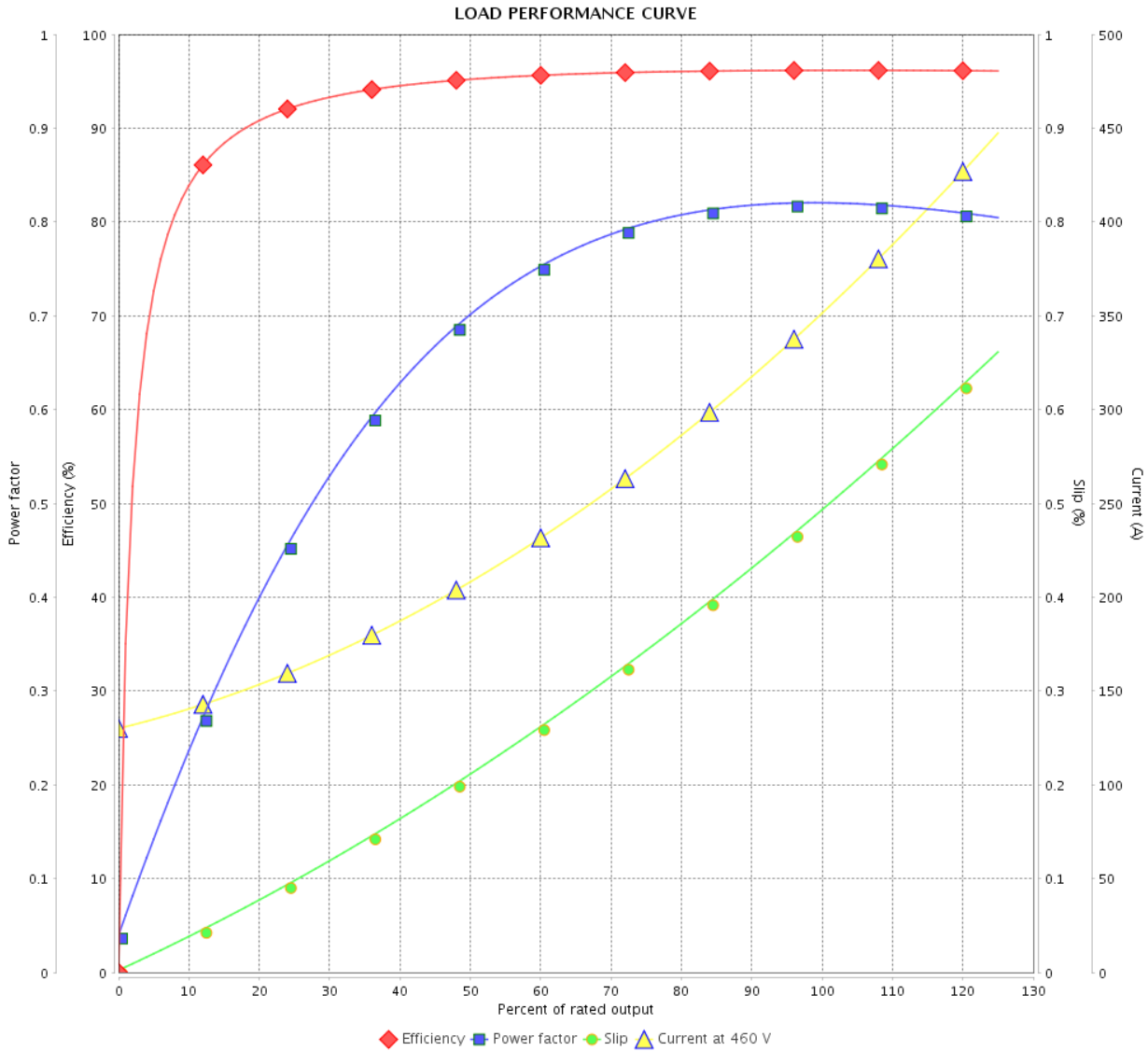


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Performance : 460 V 60 Hz 4P

Rated current : 350 A
 LRC : 7.2
 Rated torque : 880 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1791 rpm

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

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THERMAL LIMIT CURVE



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Rated speed : 1791 rpm	Design : A

Heating constant

Cooling constant

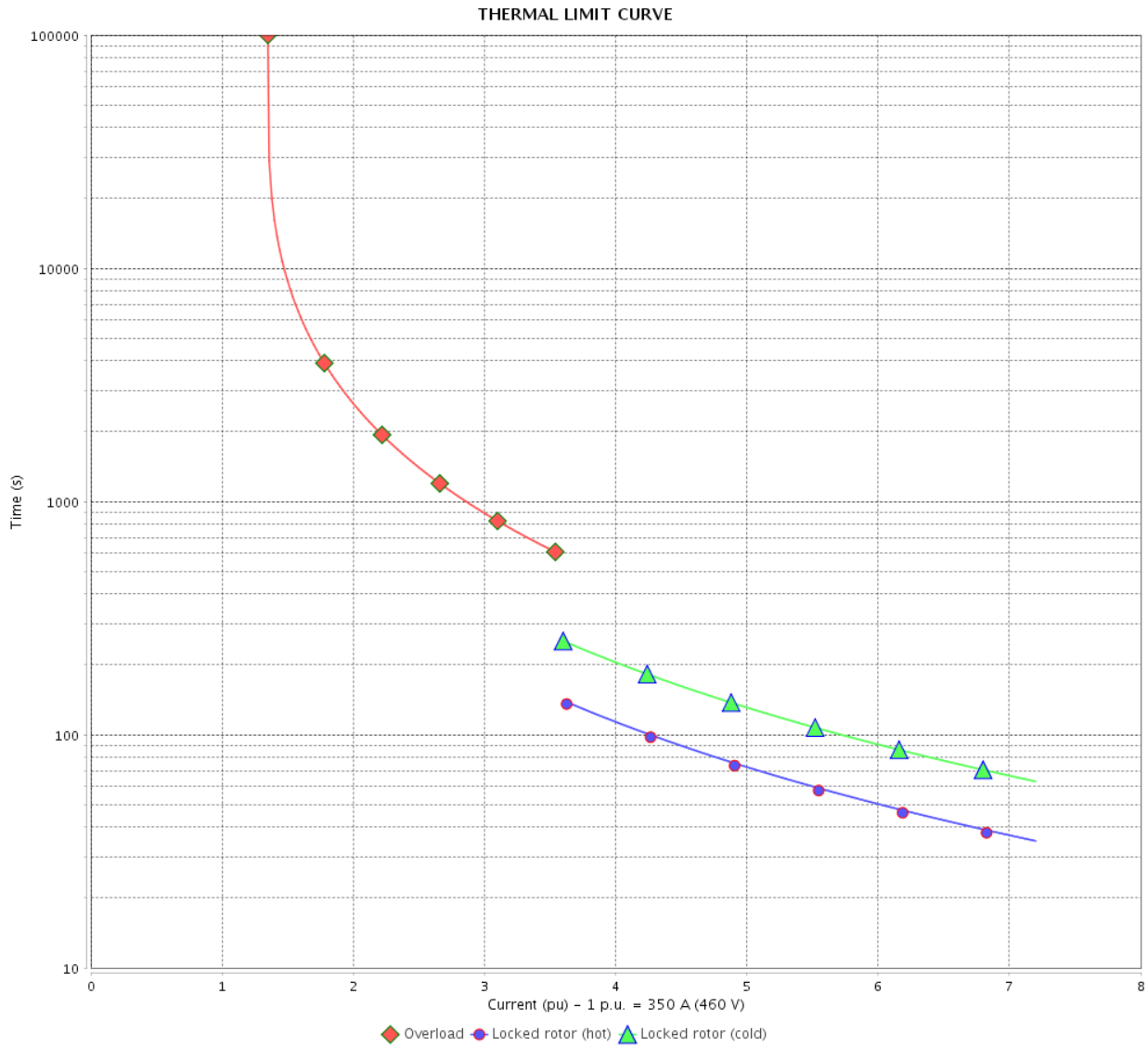
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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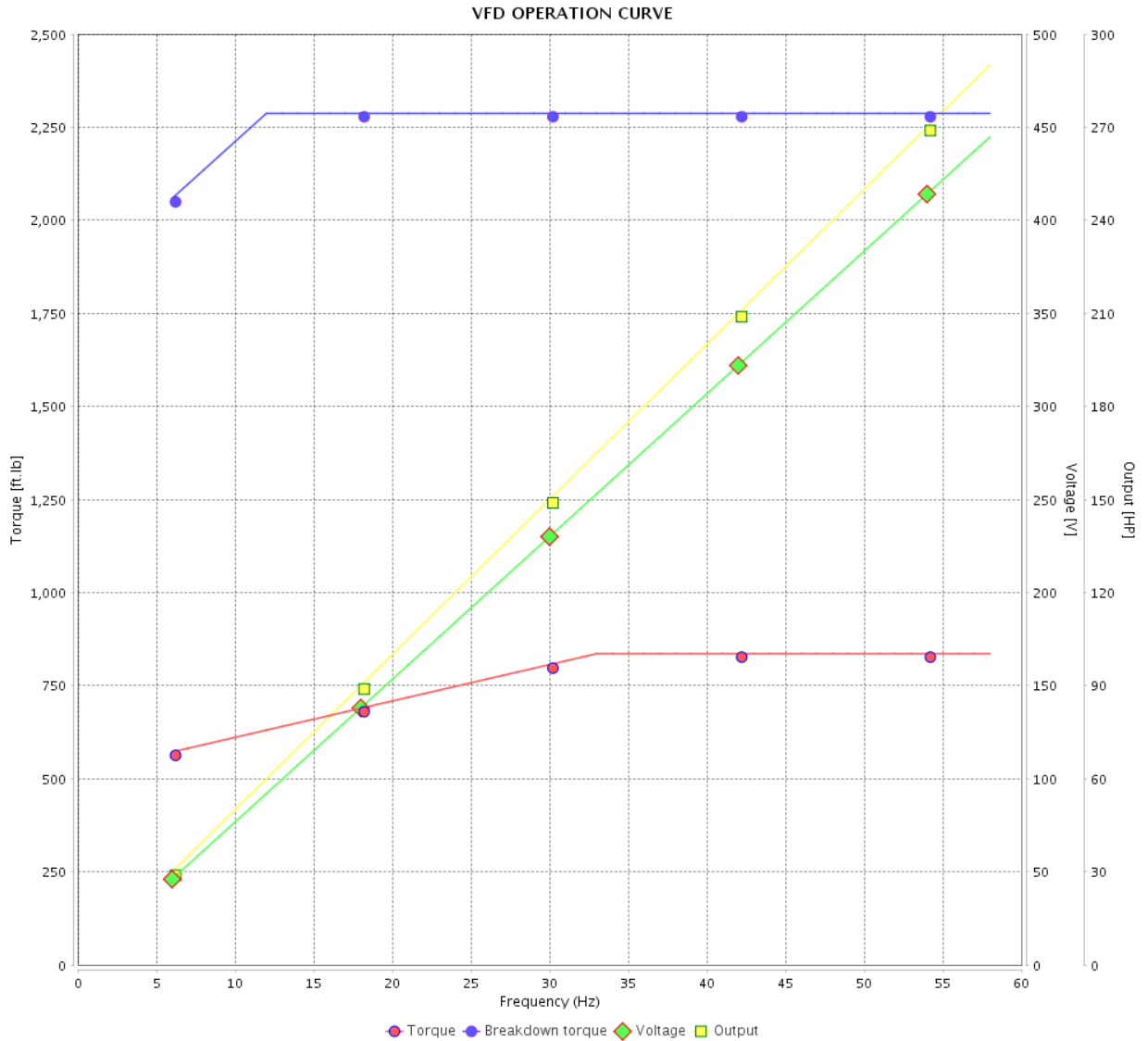
VFD OPERATION CURVE

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 Catalog # : 30018ET3GKD580Z-W22



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Rated current : 350 A	Moment of inertia (J)
LRC : 7.2	Duty cycle : Cont.(S1)
Rated torque : 880 ft.lb	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.15
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 1791 rpm	Design : A

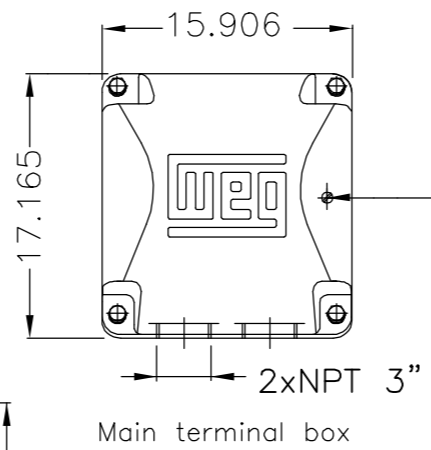
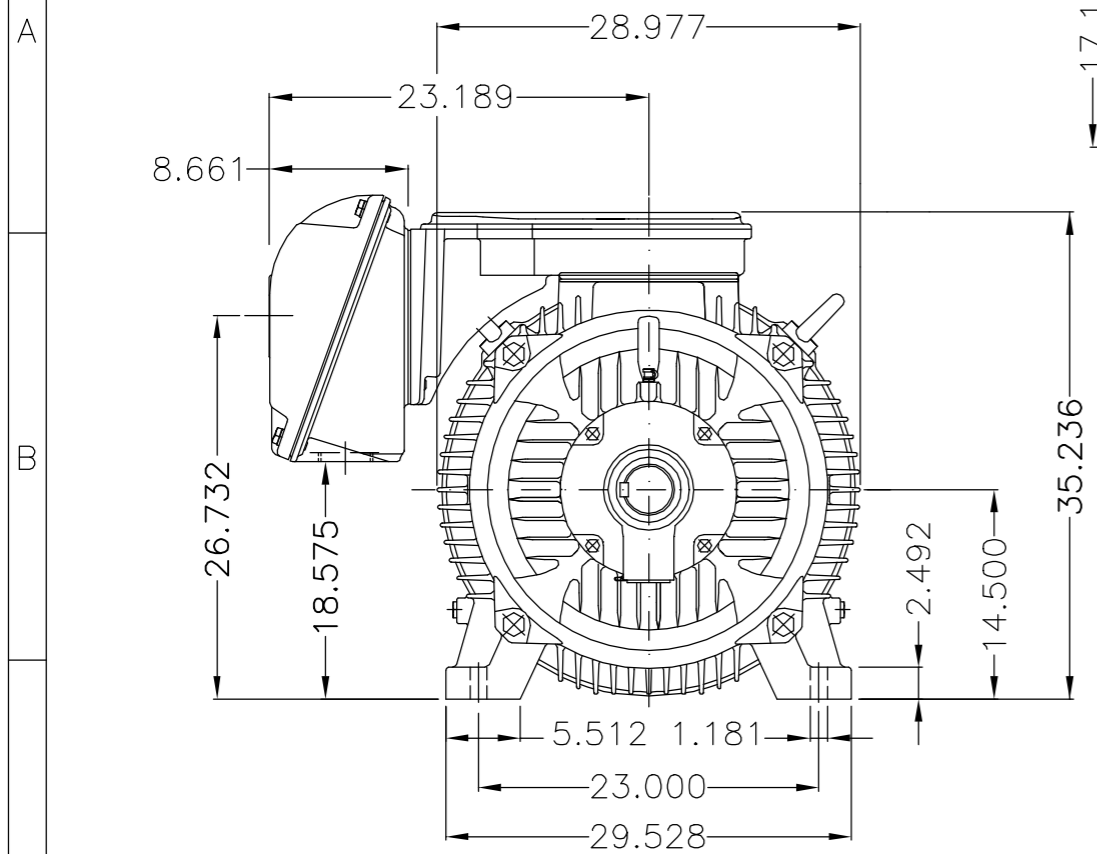
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EIXO/SHAFT	
PADRÃO/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	X

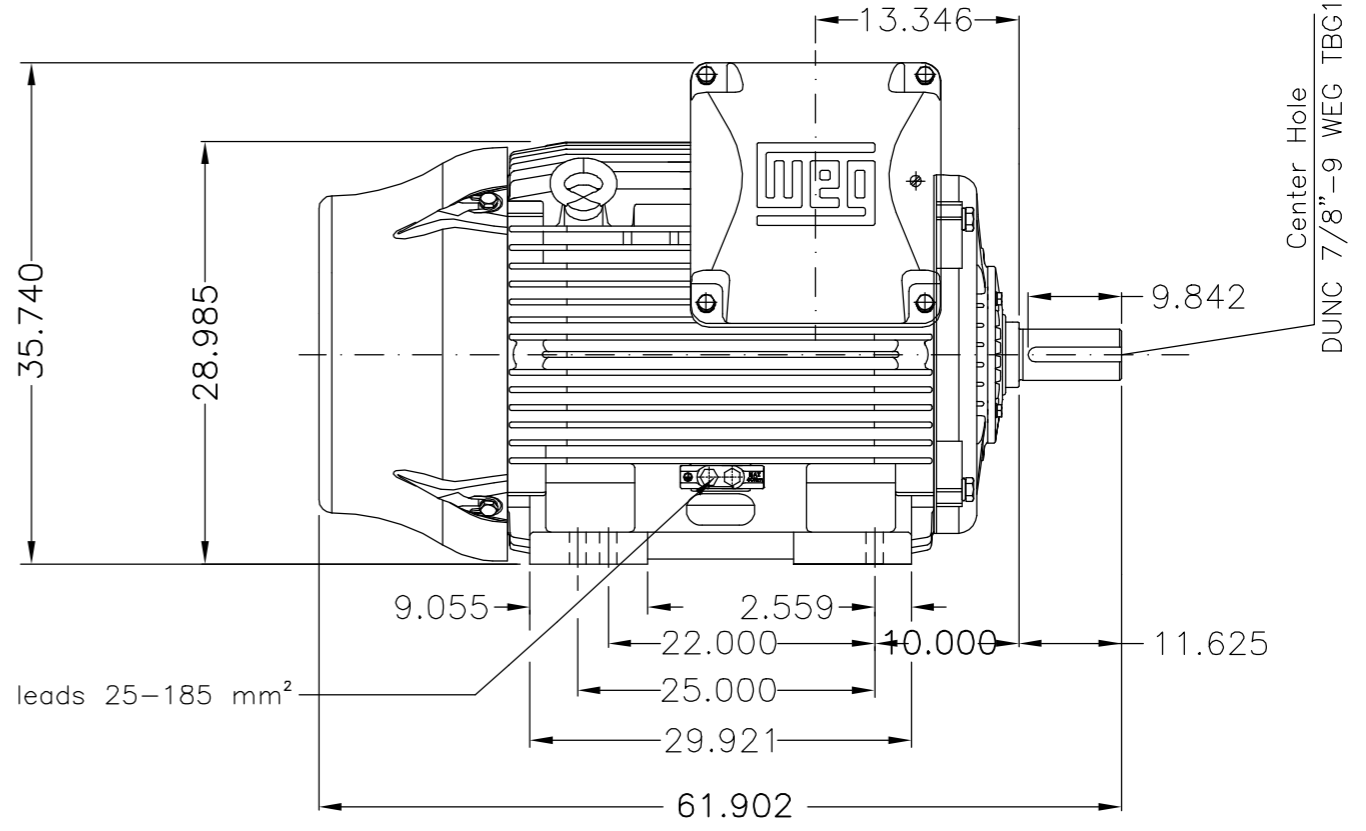
Dimensões em polegada
Dimensions in inches

CERTIFIED WEG MOTORES
Certified document.
Not subject to changes.

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

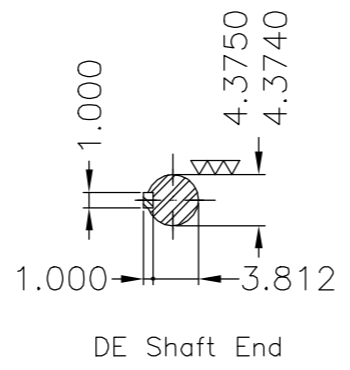
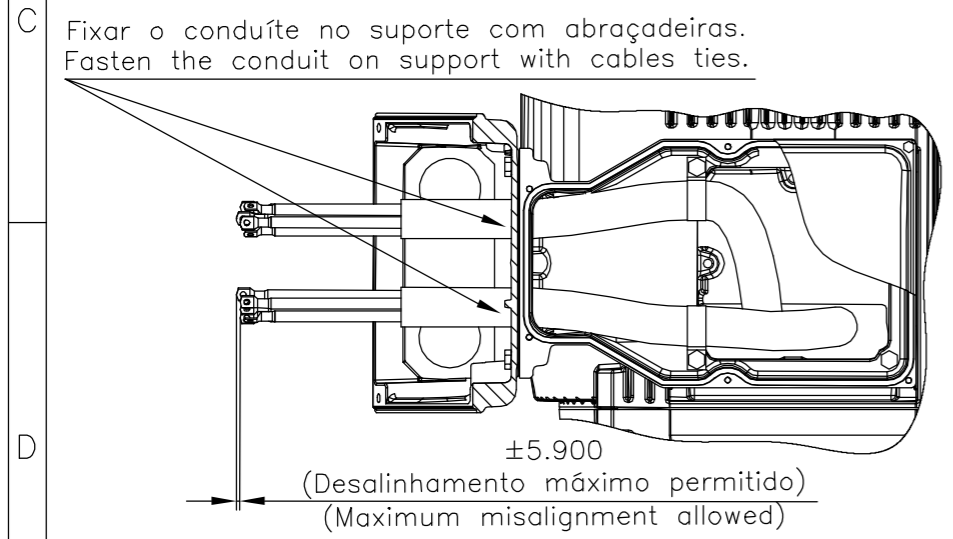


Grounding for leads 35-120 mm²



Grounding for leads 25-185 mm²

Center Hole
DUNC 7/8"-9 WEG TBG12



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 / DE roller bearing 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						
500001331189	ADIC.NOTA CONDUITE/ADD NOTE CONDUIT	MENSOR	EANJOS	05.07.2017	05	
500001331411	ADIC. NOTA CONDUITE / ADD NOTE CONDUIT	JOSIELS	JMANENTE	04.07.2017	04	
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
EXECUTED	DVEGINI	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF		10004040391		
CHECKED		FRAME 586/7TZ IP55		000 05		
RELEASED	NSCHMIDT					
REL DT	25.01.2016	WMO	Jaraguá do Sul	Product Engineering	SHEET	1 / 1

500 HP	04 Poles	60Hz	J
500 HP	06 Poles	60Hz	I
450 HP	04 Poles	60Hz	H
450 HP	06 Poles	60Hz	G
400 HP	04 Poles	60Hz	F
400 HP	06 Poles	60Hz	E
350 HP	04 Poles	60Hz	D
350 HP	06 Poles	60Hz	C
300 HP	04 Poles	60Hz	B
300 HP	06 Poles	60Hz	A

414149741/0 MEC



FOR SAFE AREA
Mod.TE1BFOXON
CC029A



Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T3C
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 6:1, 1.00SF - T3

MODEL 30018ET3GKD580Z-W22

Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 586/7TZ 1000m.a.s.l. IP55 TEFC 3391lb

V 460

A 350

HP 300

kW 220

SF 1.15

SFA 402

RPM 1791

PF 0.82

AMB 40°C

INS cl. F DT80K

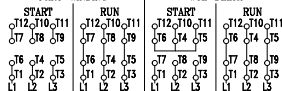
NEMA NOM EFF 96.2%

DUTY CONT.

DES A Code H

PART-WINDING

WYE-DELTA

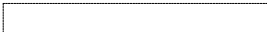


→ NU-324-C3 (72g)

→ 6319-C3 (45g)



MOBIL POLYREX EM (3000h)



MADE IN BRAZIL
13500648