

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W22		Product code : 11164522			
		Catalog # : 07518ET3H365T-W22			
Frame : 364/5T Output : 75 HP (55 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 69.8 A L. R. Amperes : 446 A LRC : 6.4x(Code G) No load current : 26.4 A Rated speed : 1780 rpm Slip : 1.11 % Rated torque : 221 ft.lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 23.3 sq.ft.lb Design : B		Locked rotor time : 25s (cold) 14s (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 <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 67.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 917 lb			
Output	25%	50%	75%	100%	
Efficiency (%)	94.0	94.5	95.0	95.4	
Power Factor	0.44	0.68	0.78	0.83	
Foundation loads					
Max. traction : 1511 lb					
Max. compression : 2428 lb					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6314 C3	6314 C3		
Sealing	:	WSeal	WSeal		
Lubrication interval	:	12000 h	12000 h		
Lubricant amount	:	27 g	27 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



Customer :

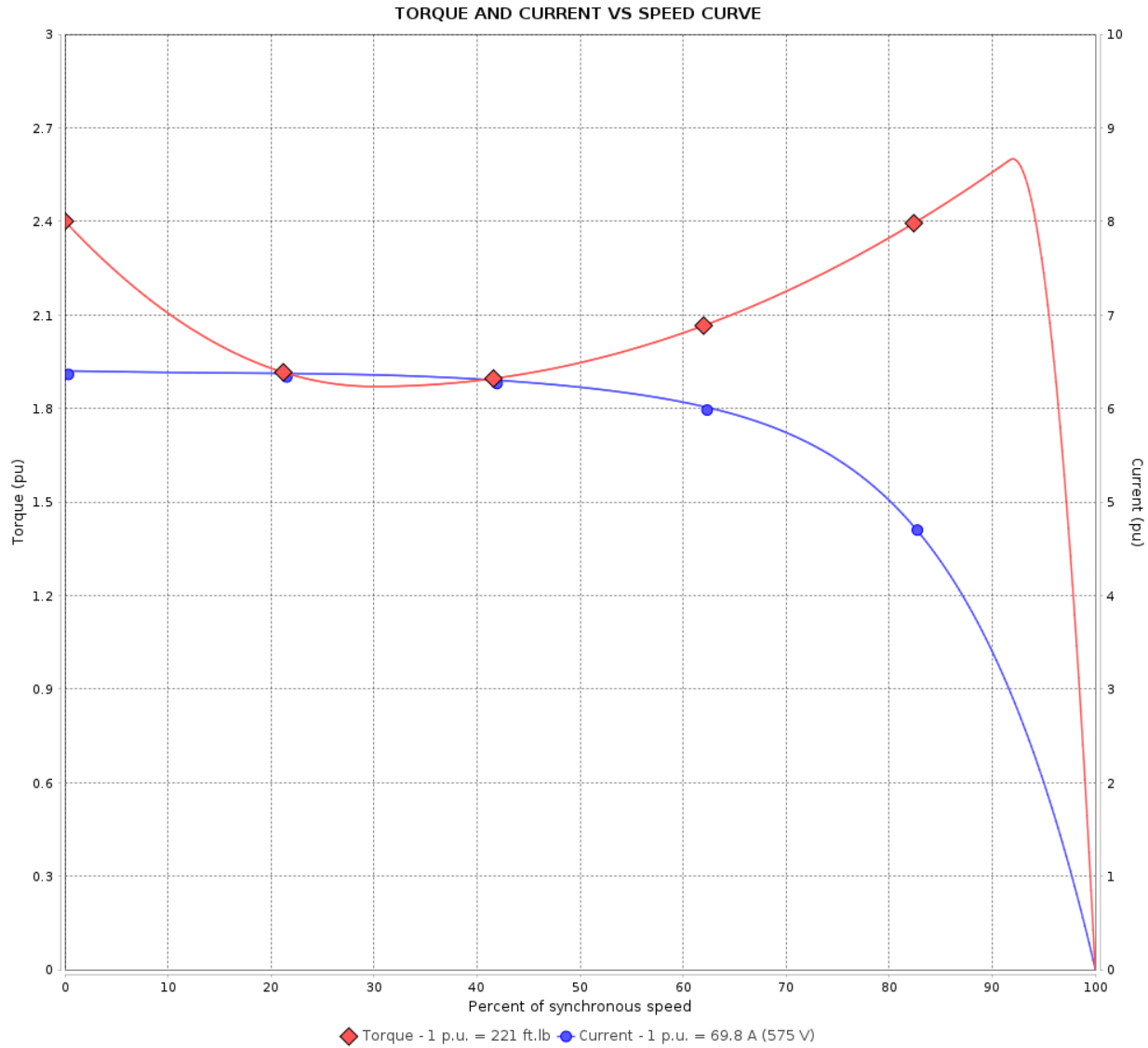
Product line : W22

Product code :

11164522

Catalog # :

07518ET3H365T-W22



Performance : 575 V 60 Hz 4P

Rated current	: 69.8 A	Moment of inertia (J)	: 23.3 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 221 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

Locked rotor time : 25s (cold) 14s (hot)

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# LOAD PERFORMANCE CURVE

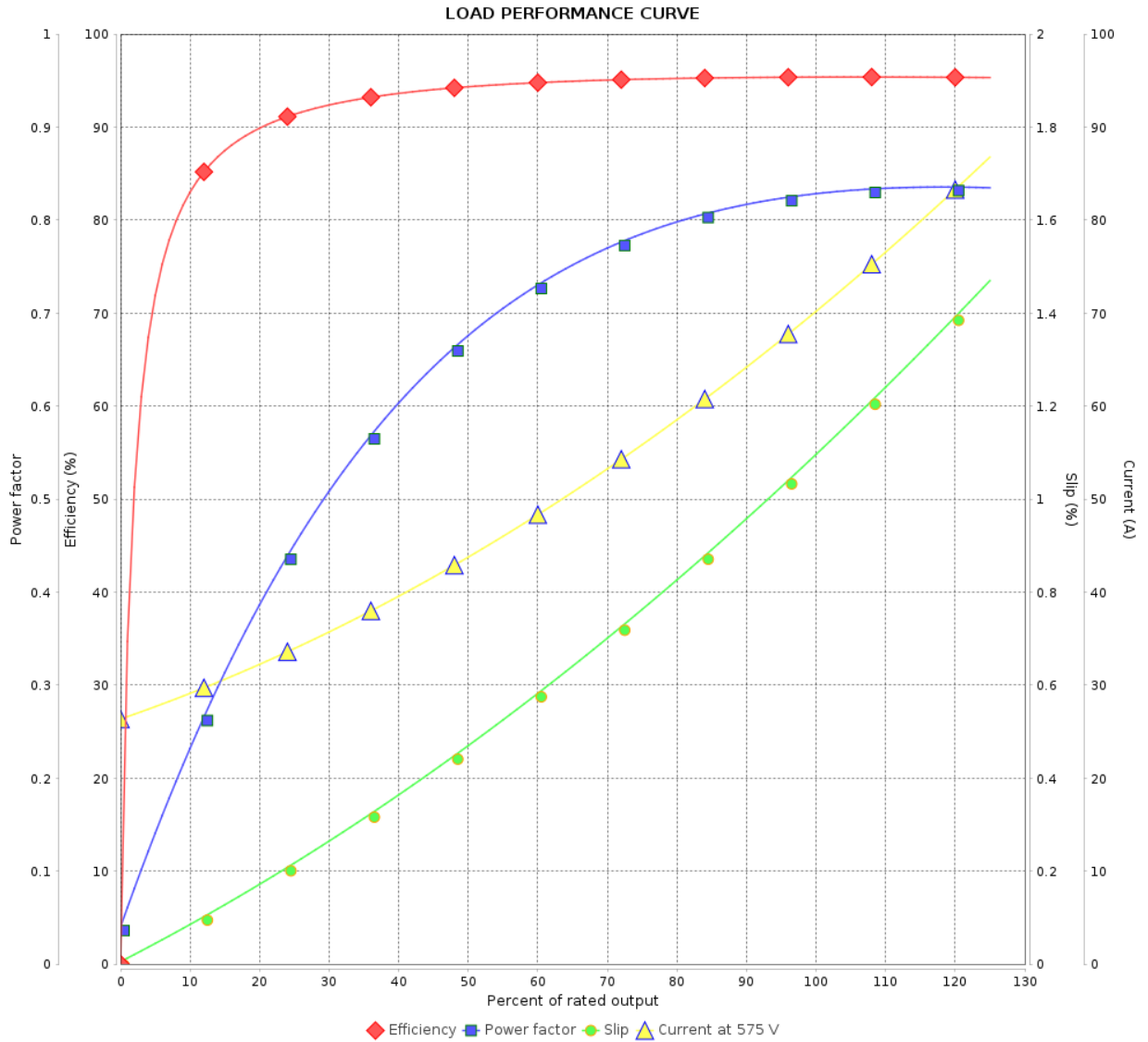
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Product line : W22

Product code : 11164522  
 Catalog # : 07518ET3H365T-W22



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 LRC : 6.4  
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 Locked rotor torque : 240 %  
 Breakdown torque : 260 %  
 Rated speed : 1780 rpm

Moment of inertia (J) : 23.3 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

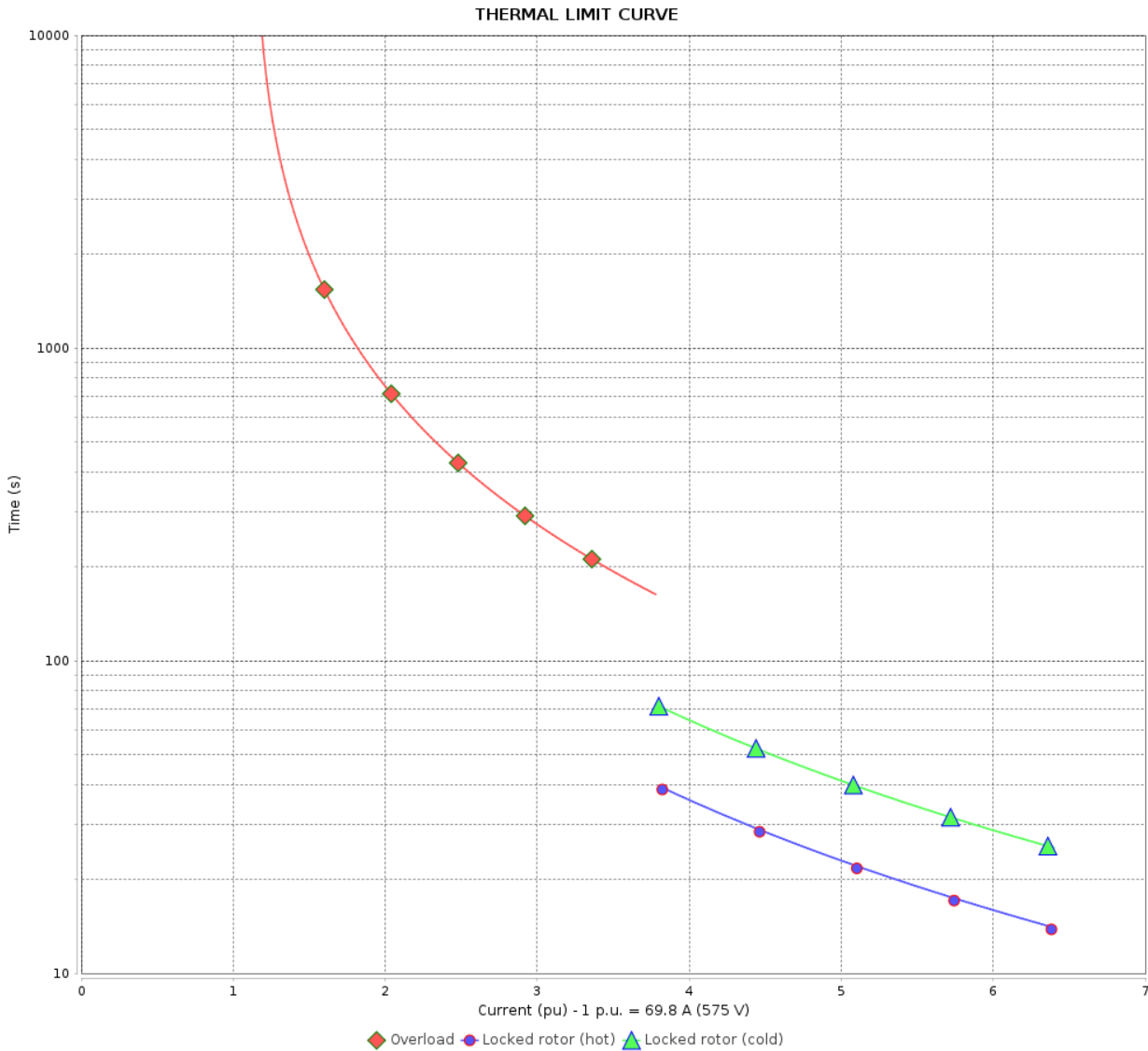
Product line : W22

Product code :

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Performance : 575 V 60 Hz 4P

Rated current : 69.8 A  
 LRC : 6.4  
 Rated torque : 221 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 260 %  
 Rated speed : 1780 rpm

Moment of inertia (J) : 23.3 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

Heating constant

Cooling constant

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# VFD OPERATION CURVE

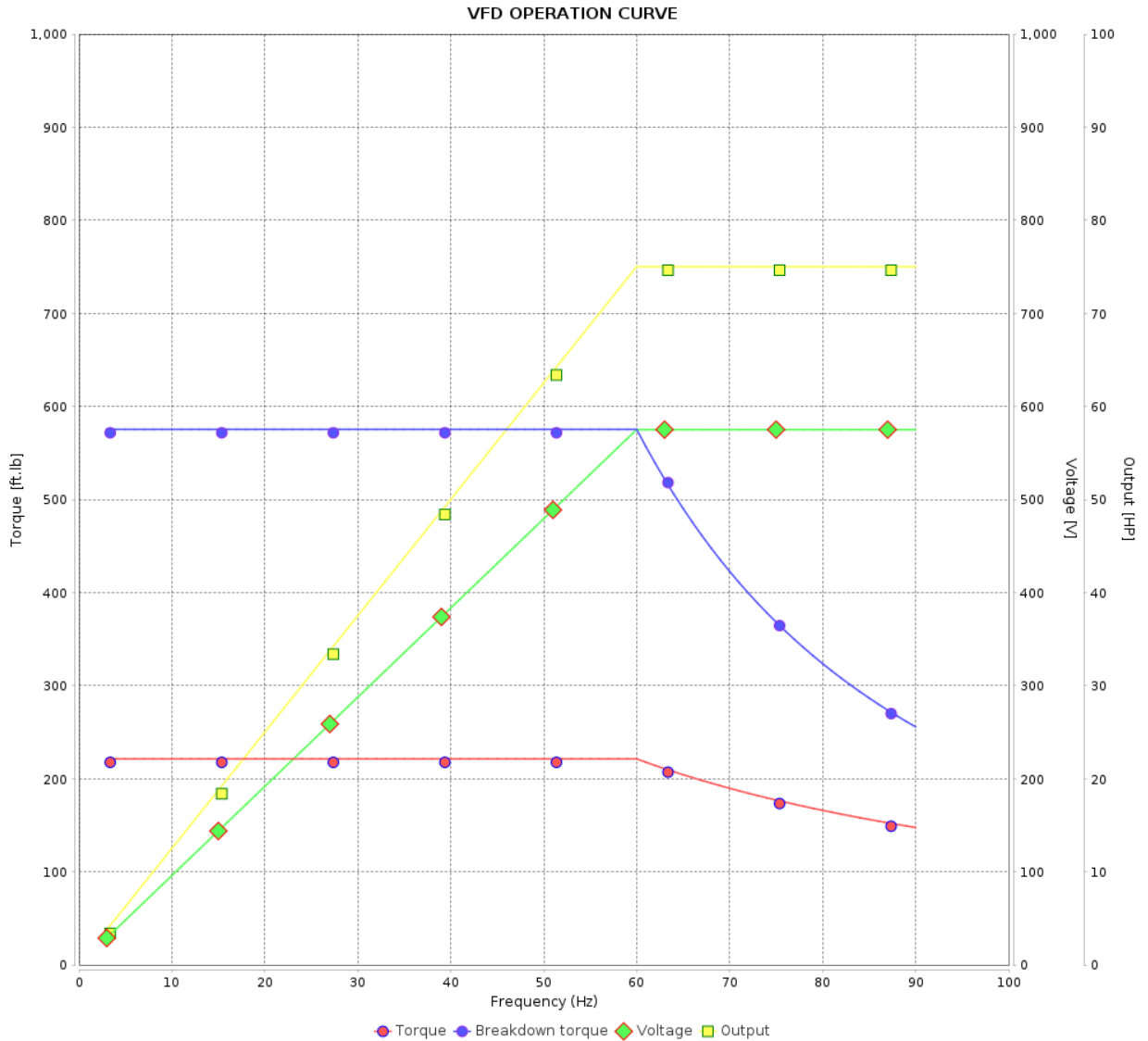
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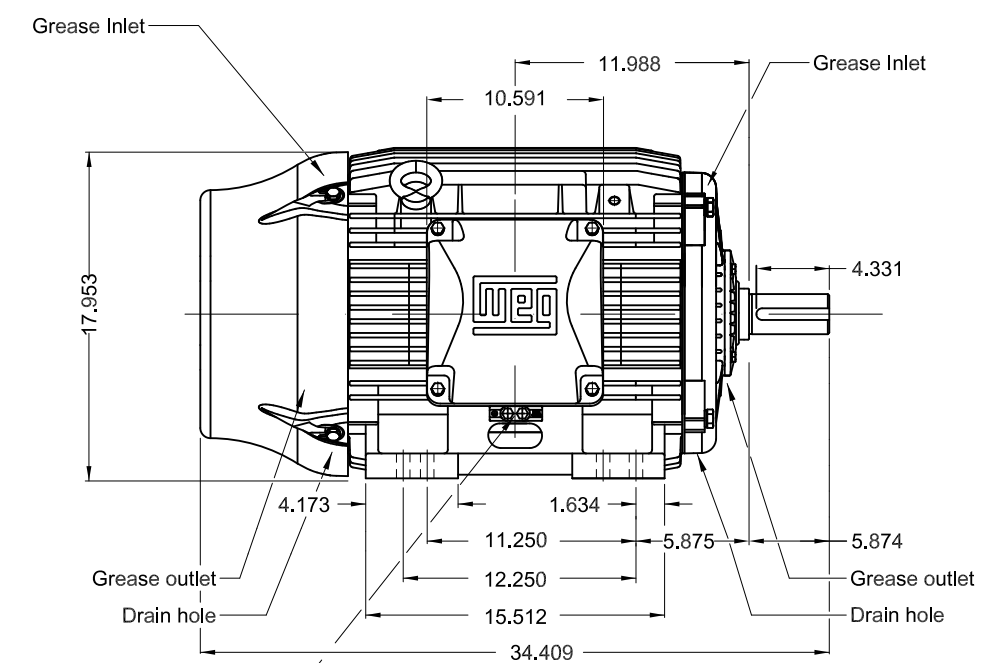
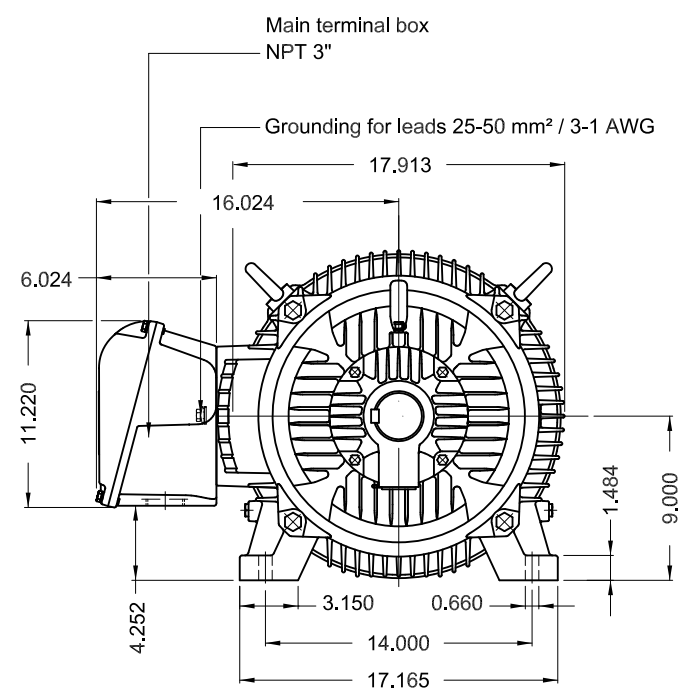


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 Rated speed : 1780 rpm

Moment of inertia (J) : 23.3 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

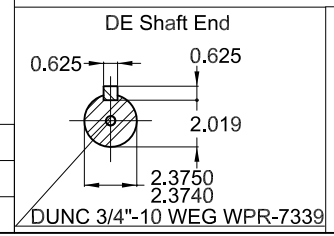
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Grounding for leads 25-185 mm<sup>2</sup> / 3AWG-350MCM

75 HP 04 Poles 60 Hz A

Color RAL 5009  
 Painting plan 203A  
 Mounting B3R(D)



ECM		LOC	SUMMARY OF MODIFICATIONS		HYBRISUSER					00
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 364/5T IP55 TEFC	EXECUTED		CHECKED	RELEASED	DATE	VER	
CHECKED										
RELEASED										
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p><b>PREVIEW</b></p> <p>WDD 00</p> </div> </div>	



**NEMA**  
Premium  
W22



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 - T4  
For use on PWM: Gr. A, B, C, D and F,  
VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 07518ET3H365T-W22

Inverter Duty Motor  
Severe Duty

PH3 60Hz Fr. 364/5T 1000m.a.s.l. IP55 TEFC 917lb

V 575

A 69.8

HP 75

kW 55

SF 1.25

SFA 87.3

RPM 1780

PF 0.83

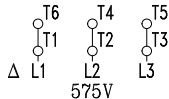
AMB 40°C

INS cl. F DT80K

NEMA NOM EFF 95.4%

DUTY CONT.

DES B Code G

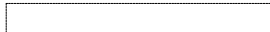


→ 6314-C3 (27g)

→ 6314-C3 (27g)



MOBIL POLYREX EM (12000h)



MADE IN BRAZIL  
11164522