

ABB BALDOR RELIANCE III

Customer information packet

ECTM4409T-4G

100HP, 1190RPM, 3PH, 60HZ, 444T, A44064M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	119.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	119.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44064M
Mounting Arrangement	F1

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3905
Layout	617444-079
Eff. date	06-06-2023
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	04-08-2022

Number of Poles	6
Overall Length	44.96 IN
Power Factor	82
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW												
CAT.NO.	ECTM4409T-4G				SPEC NO.	A44-9037-3905						
HP	100HP	AMPS	119		VOLTS	460		DESIGN	B			
FRAME	444T	RPM	1190		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	90BC03J30X		PH	3	DUTY	CONT	INSUL.CLASS		F			
OPP D.E. BEARING	90BC03J30X		TYPE		ENCL	TEFC	CODE	G				
D.E.BRG.DATA	6318		POWER FACTOR			82	NEMA NOM EFFICIENCY			95		
O.D.E.BRG.DATA	6318		MAX CORR KVAR			27.00	GUARANTEED EFFICIENCY			94.1		
3/4 LOAD EFF.	95		NEMA NOM/CSA QUOTED EFF									
SER.NO.					MOTOR WEIGHT							

000901002AAA	
INV DUTY 20:1 VT	

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECTM4409T-4G - 100HP, 1190RPM, 3PH, 60HZ, 444T, A44064M, TEFC						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			444T			100			P			3/60			1190			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
119			CONT			40/F			1.15			B			G			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
497780			418143098VE			---			---			.0547								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			39.9			1200			4.01			0					
1/4			25.0			55.8			1197			45.5			92.5					
2/4			50.0			72.5			1194			68.0			95.0					
3/4			75.0			94.3			1191			78.0			95.3					
4/4			100			119			1188			82.5			95.0					
5/4			125			147			1184			84.3			94.4					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			142			627			730					
PULL UP						168			126			558			717					
BREAKDOWN						1146			266			1175			438					
FULL LOAD						1188			100			442			119					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.0 PCT.																				
						DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>12/06/10</u>						AC MOTOR PERFORMANCE DATA			A44WG3905-R001 DATE ISSUED 08/09/19					

FRAME 444T

RPM 1190

S.F. 1.15

ROTOR 418143098VE

HP 100

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 119

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

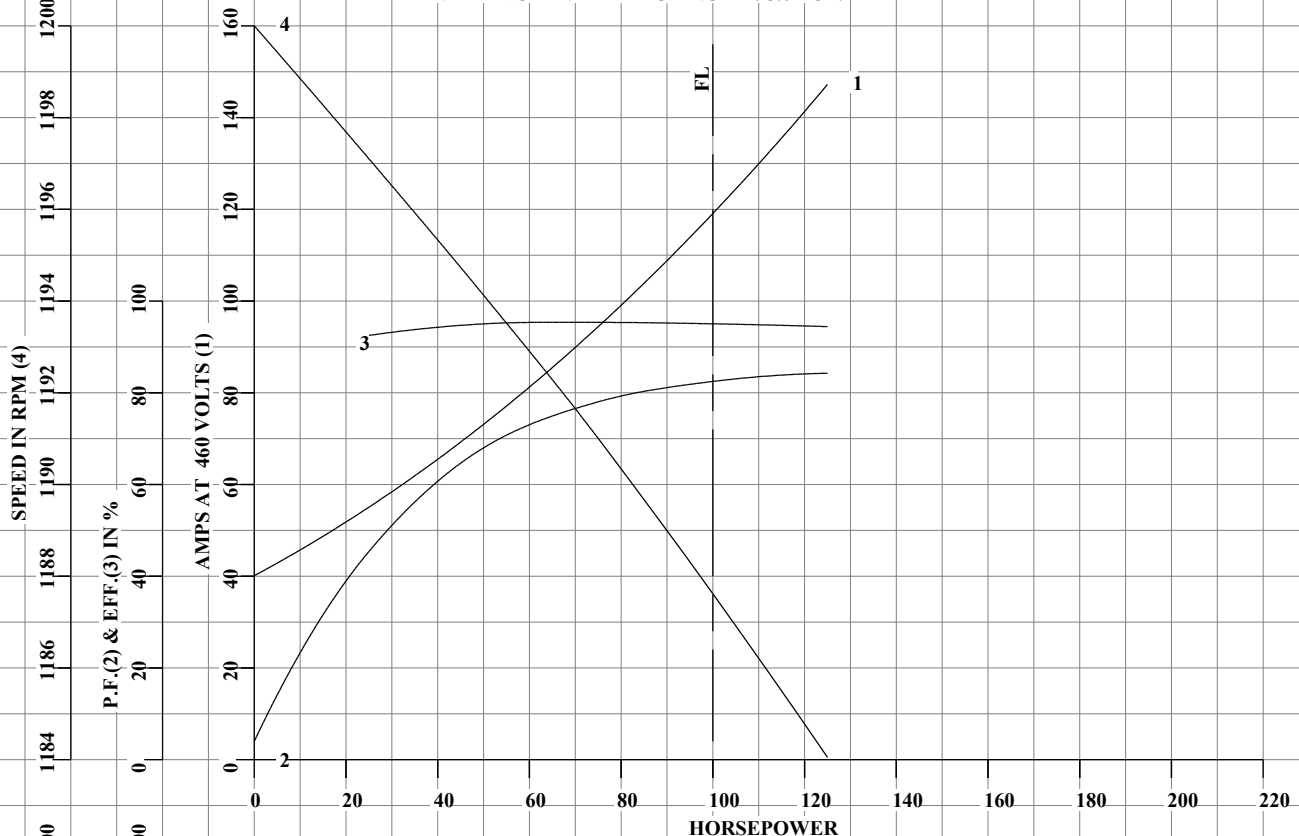
STATOR RES. @ 25°C .0547

AMB °C / INSUL 40/F

E/S 497780

OHMS (BETWEEN LINES)

NEMA NOMINAL EFFICIENCY = 95.0 PCT.



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ISSUE DATE 08/09/19

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RPM 1190

S.F. 1.15

NEMA DESIGN B

HP 100

VOLTS 460

TEST S.O. TYPICAL DATA

TYPE P

AMPS 119

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

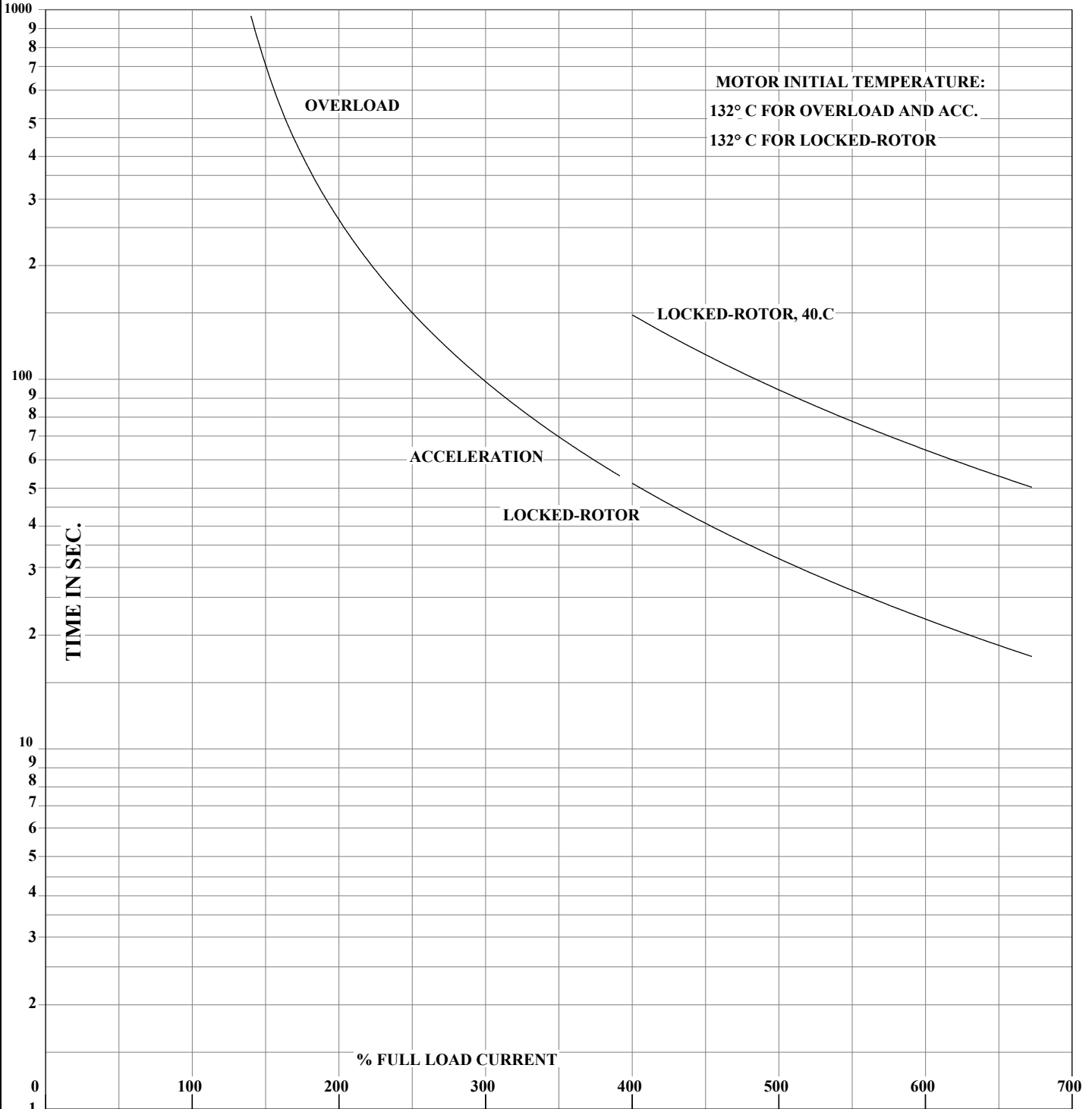
ENCLOSURE TEFC

STATOR RES. @ 25°C .0547

AMB °C / INSUL 40/F

E/S 497780

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

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AC MOTOR
PERFORMANCE
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DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

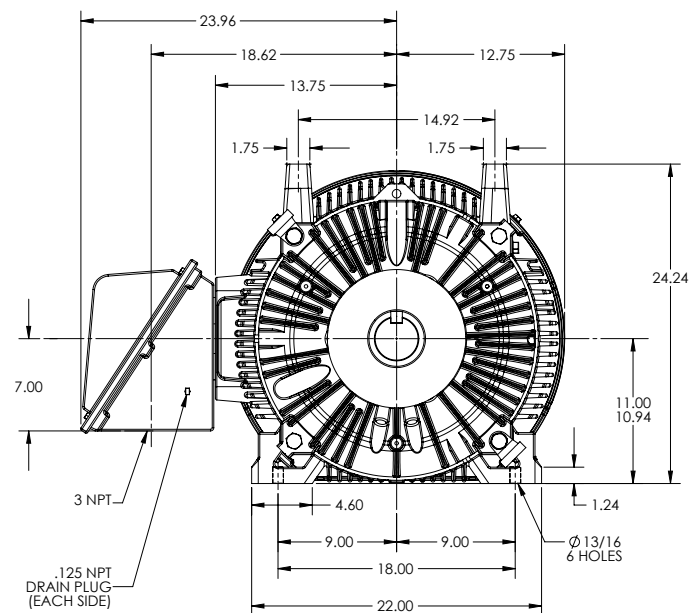
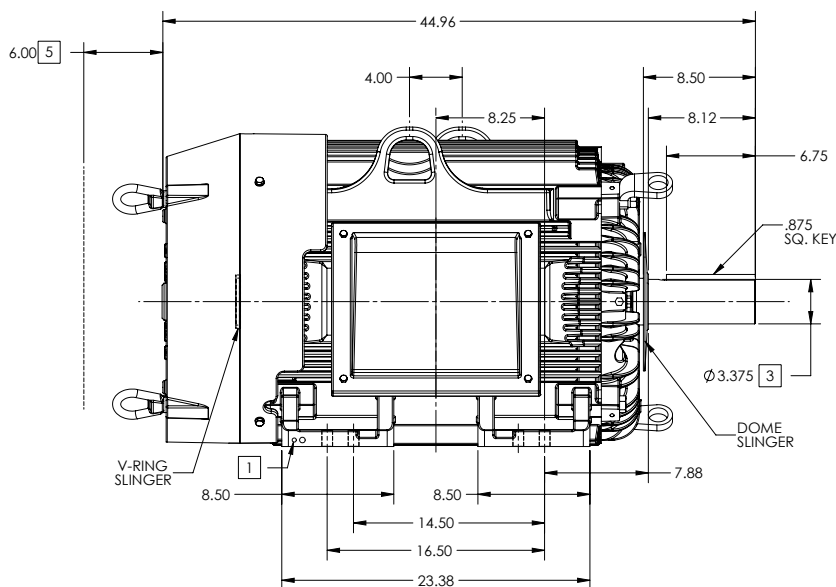
ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00-.06
3. VARIES +.00-.001
4. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

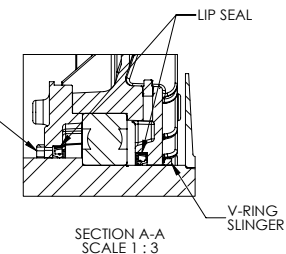
CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

4 WEIGHT (LBS): 2100

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.



SHEET NUMBER
1 OF 1
617444-079

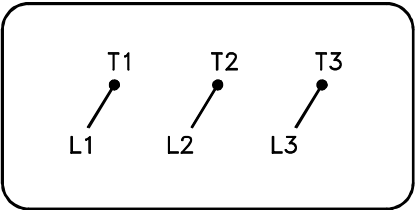
REV. DESC: NEW	VERSION: 00	REVISED: 02-23-02 04/26/2022	TDR: 000001187873
MODEL NO. 617444-079	REF:		
BY: USBUFA	Material:		

BALDOR
G445T/444T STD - FOOTED - SIDE/CENTER STEEL C/B

617444-079

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1