

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 S/O		CUSTOMER INFORMATION PACKET		ECTM4409T-4G - 100HP, 1190RPM, 3PH, 60HZ, 444T, A44064M, TEFC		
	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

HP 100

TYPE P

PHASE / HERTZ 3/60

CUSTOMER INFORMATION PACKET

RPM 1190

VOLTS 460

AMPS 119

DUTY CONT

AMB °C / INSUL 40/F

ECTM4499T-4G 100HP, 1190RPM, 3PH, 60HZ 444T, 44004M, TEFC

S.F. 1.15

NEMA DESIGN B

CODE LETTER G

ENCLOSURE TEFC

E/S 497780

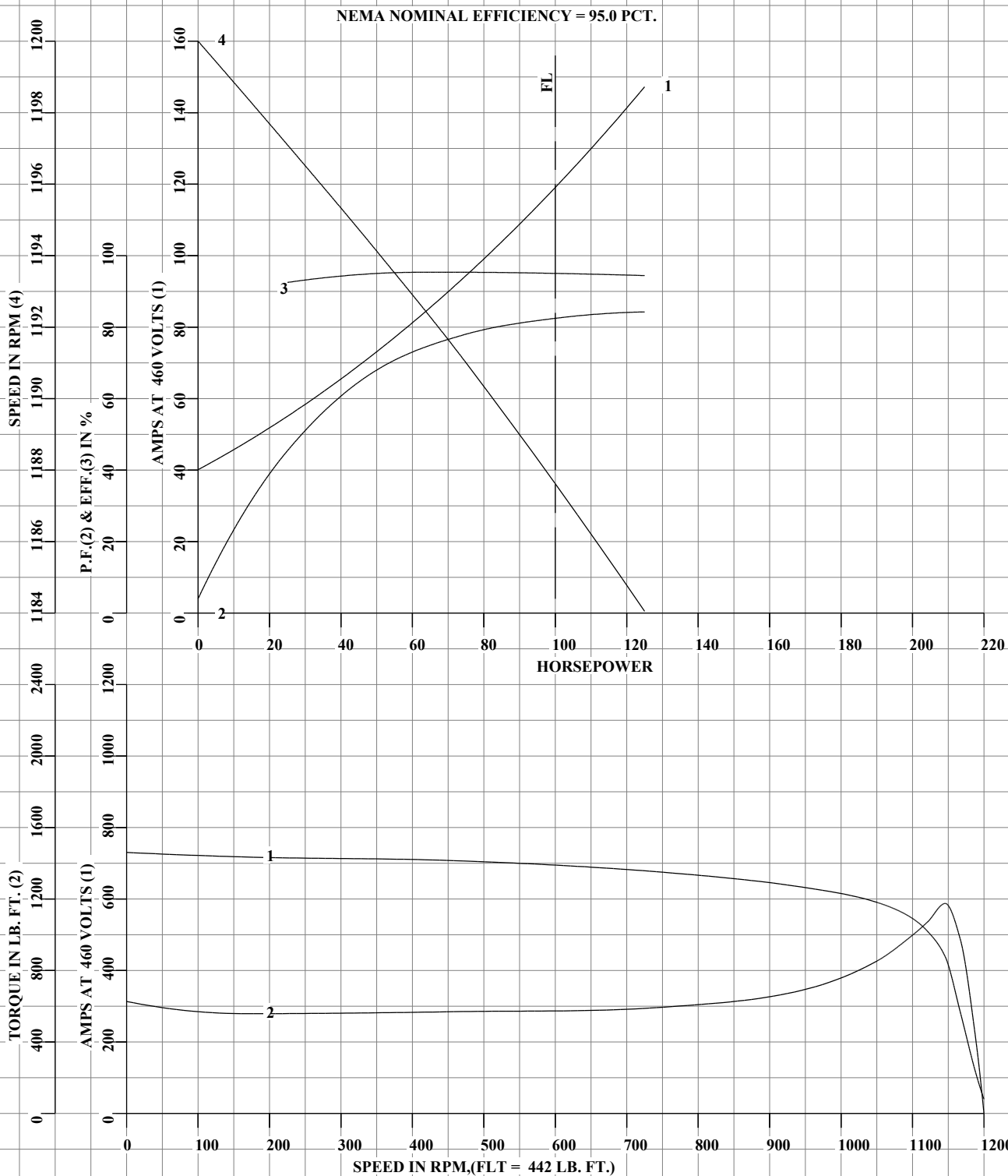
ROTOR 418143098VE

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25°C .0547

OHMS (BETWEEN LINES)



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AC MOTOR
 PERFORMANCE
 DATA

A44WG3905-R001

ISSUE DATE 08/09/19

FRAME 444T

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

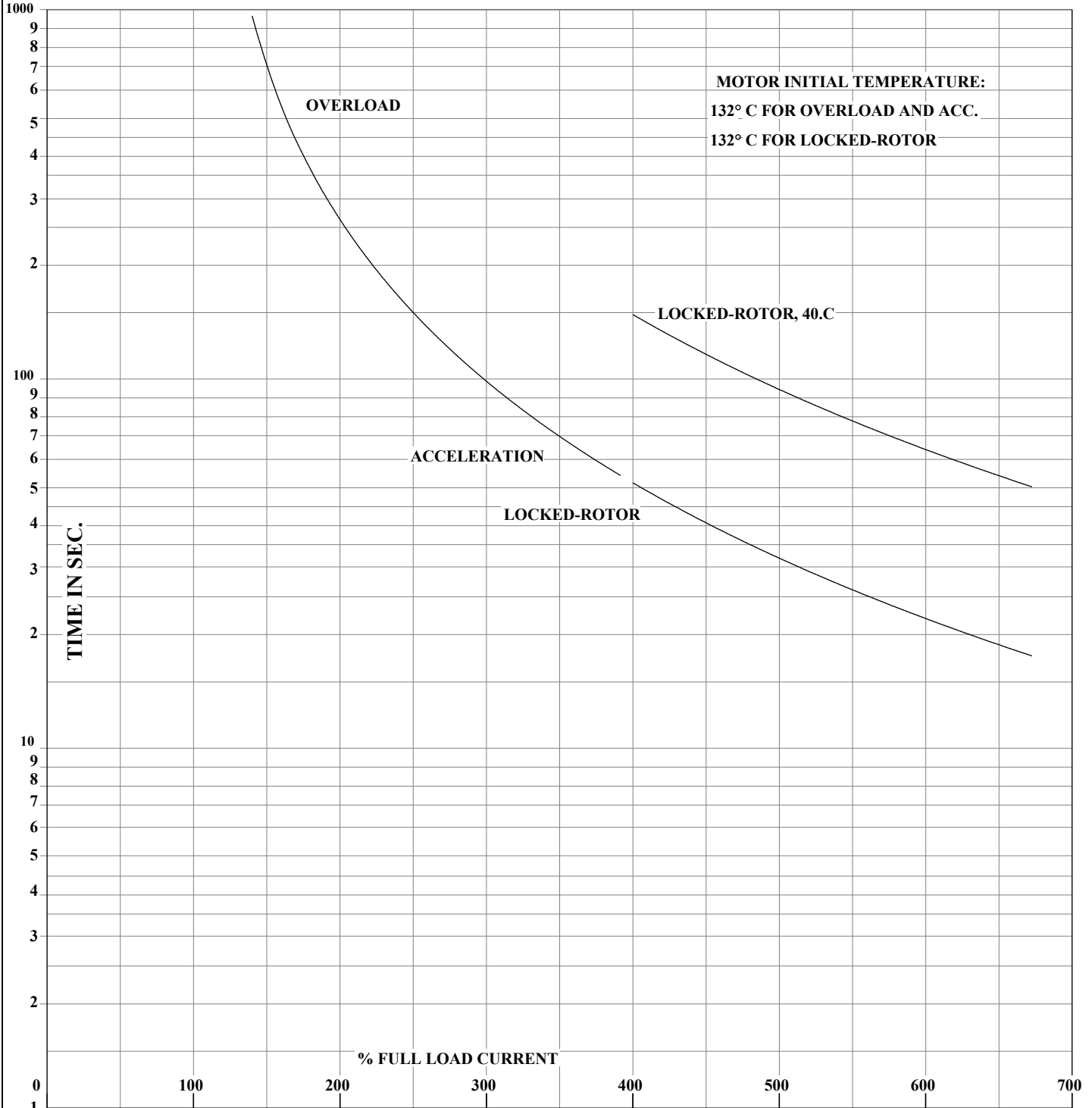
ENCLOSURE TEFC

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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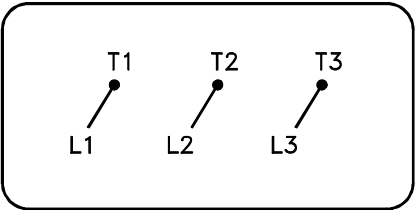
SQUIRREL-CAGE INDUCTION

INCLUDES 444T FRAME MOUNTING HOLES



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