

ABB BALDOR RELIANCE III

Customer information packet

ECP4409TR-4

100HP, 1190RPM, 3PH, 60HZ, 444T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
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	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	15-60
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
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	119.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3905
Layout	617427-001
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#2
Proprietary	False
Created date	12-02-2013

Motor Type	A44064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.75 IN
Power Factor	82
Product Family	General Industrial
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBILITH SHC 220	

NP3238

CAT NO	ECP4409TR-4			SPEC NO.		A44-5186-3905							
HP	100	AMPS	119	VOLTS		460		DESIGN	B				
FRAME	444T	RPM	1190	HZ	60	AMB	40	SF	1.15				
D.E. BRG.DATA	NU222		O.D.E. BRG.DATA			6318		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	110RU02M30X			TYPE	P	ENCL	TEFC	CODE	G				
O.D.E. BRG.	90BC03J30X			POWER FACTOR			82	NEMA NOM EFFICIENCY			95		
3/4 LOAD EFF.	95.3	MAX CORR KVAR			27.0		GUARANTEED EFFICIENCY			94.1			
TEMP CODE	T3	TEMP =		200									
CHP HZ	60-90	CT HZ	15-60	VT HZ		0-60							
INVERTER-TEMP-CODE	T3												
SER.NO.				MOTOR WEIGHT									

Parts List

Part number	Description	Quantity
SA273053	SA A44-5186-3905	1.000 ea
RA259656	RA A44-5186-3905	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
000692000RT	N/P	1.000 ea
NP3238	SS CP XEX SEVERE DUTY MAIN NP,CURUS EEV	1.000 ea
000692000FF	N/P	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
415072001B	CLAMP	1.000 ea
083199082RA	G28 SHORT FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
078548001R	FAN KB 234/150 (84) 400	1.000 ea
004824015AP	GREASE MOBILITH SHC 220	1.160 lb
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
415045002A	SLGR	1.000 ea
034690005AB	PPLG 3/4 PLATED	2.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089490101A	G28 BRKT 089490100WCA	1.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
415915007G	GASK, LAC	1.000 ft

418151014G	RETAIN RING	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034530036AB	P/NIP 1/8 X4-1/2 Yellow Zinc46114-BM	1.000 ea
415045002D	SLGR - 440 V1T45B	1.000 ea
034530036BB	P/NIP 1/4X4-1/2 GALV.	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
406056007A	GASKET, 440	1.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
067053001C	GASK 440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
076863000C	+CBCST BLKT - 440	1.000 ea
076864000A	*MFC MOVE* CBCST BLKT - 440	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
032510024D	CARRIAGE BOLT - 444	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
412118006A	DRAIN	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea

604799003C	PLASTIC BAG 42X32X46	1.000 ea
604797001R	440 FR. ROLLER BEARING MOTOR SHAFT	1.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	1.000 ea
034001016AB	WSHR .562ID 1.375OD .109	1.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	1.000 ea

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECP4409TR-4 - 100HP, 1190RPM, 3PH, 60HZ, 444T, TEFC, F1						
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

HP 100

TYPE P

PHASE / HERTZ 3/60

CUSTOMER INFORMATION PACKET

RPM 1190

VOLTS 460

AMPS 119

DUTY CONT

AMB °C / INSUL 40/F

ECP4405TR-4-1190HP, 1190RPM, 3PH, 60HZ, 444T, TEFC, 1.15

S.F. 1.15

NEMA DESIGN B

CODE LETTER G

ENCLOSURE TEFC

E/S 497780

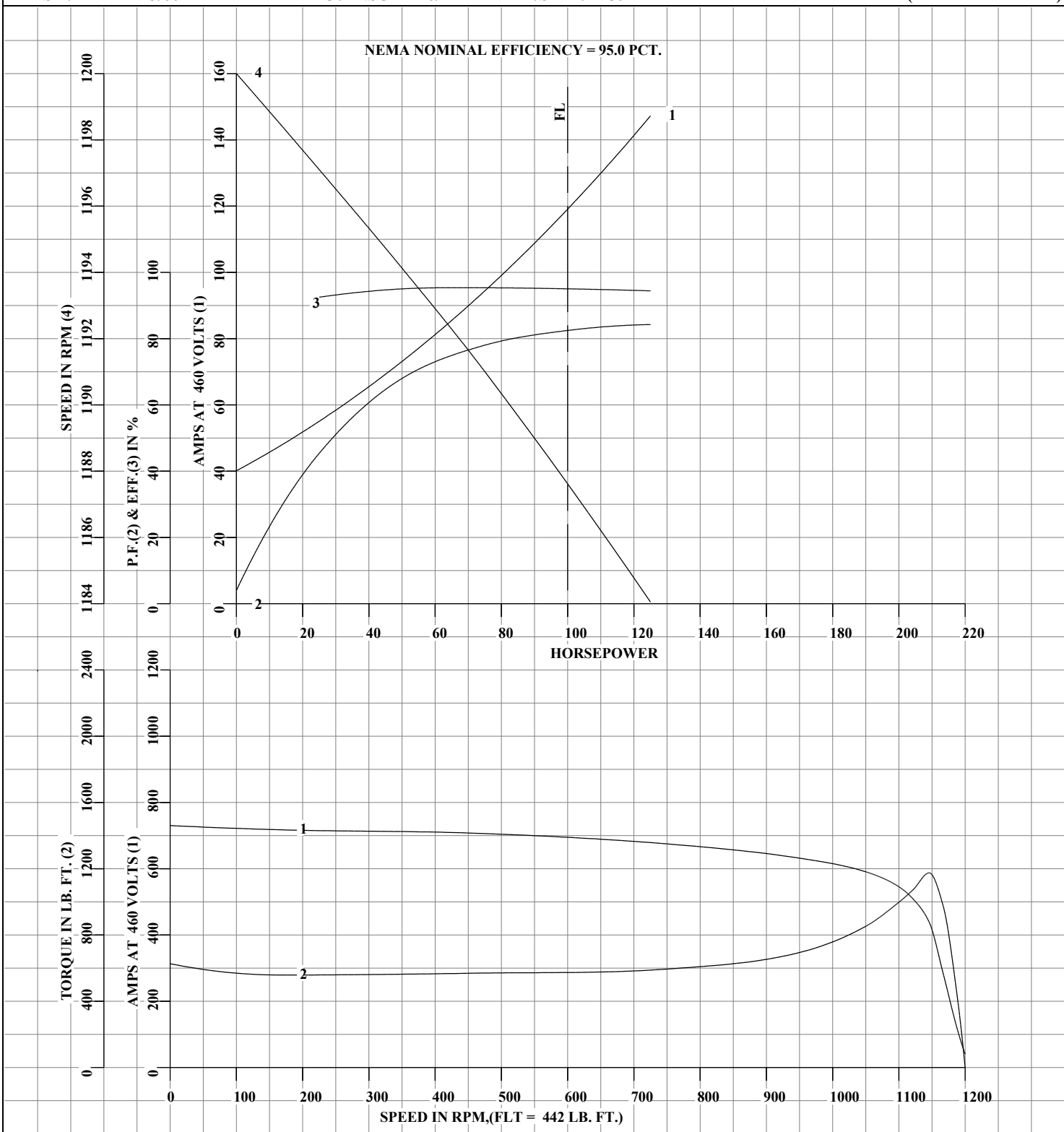
ROTOR 418143098VE

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25°C .0547

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: W. L. SMITH
CHECKED BY: J.J. HARRISON
APPROVED BY: W. L. SMITH
DATE: 12/06/10

AC MOTOR
PERFORMANCE
DATA

A44WG3905-R001

ISSUE DATE 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

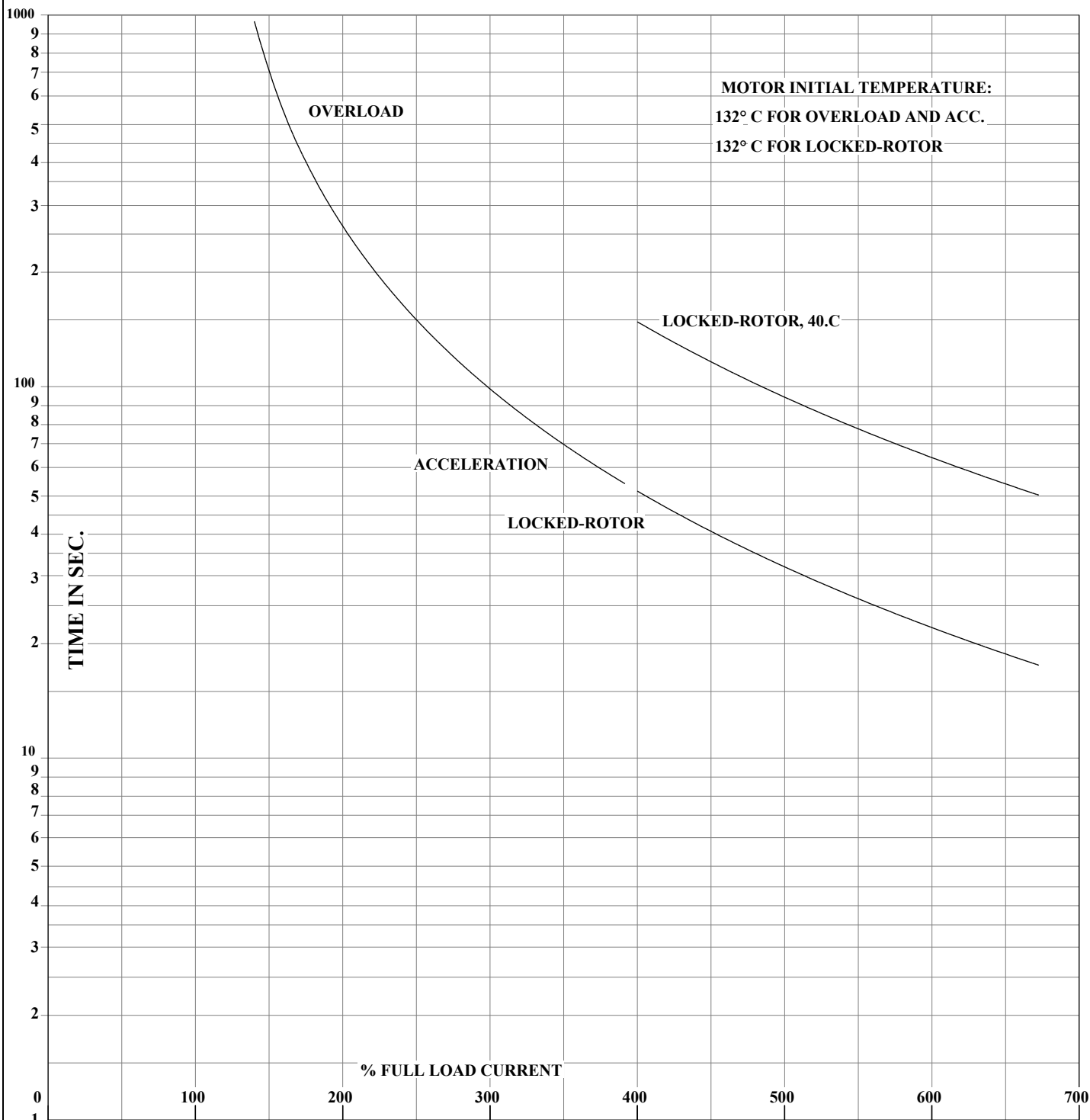
ENCLOSURE TEFC

STATOR RES. @ 25°C .0547

AMB °C / INSUL 40/F

E/S 497780

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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DATA

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DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

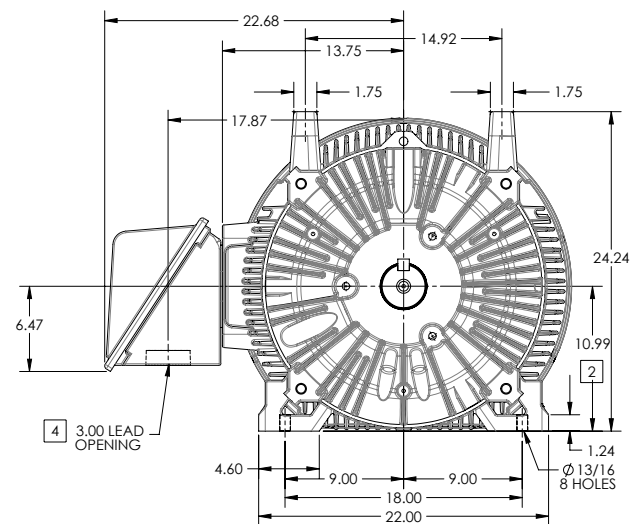
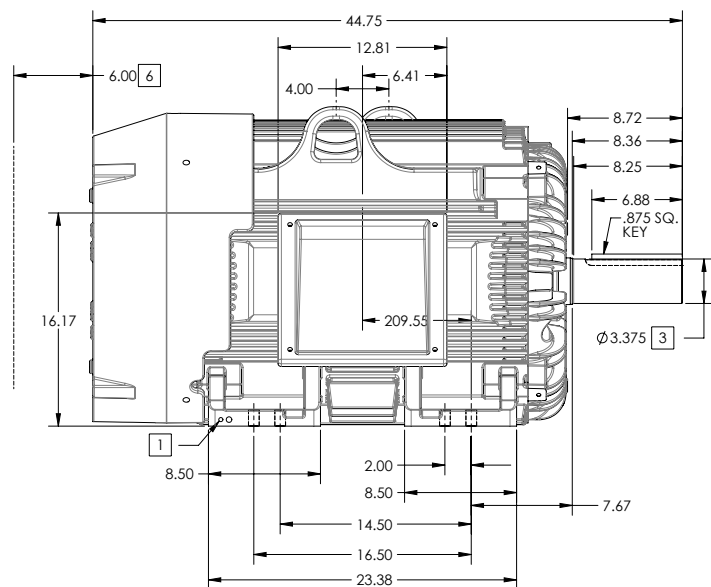
ENCLOSURE: TOTALLY ENCLOSED

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 +.000-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
6. 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.

[5] WEIGHT (LBS): 2130

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

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

 SHEET NUMBER
1 OF 2

100F-2272-119

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION			
REV: E	VERSION: 05	REVISED: 09-22-56 06/12/2014	TDR: 000000857938
MODEL NO. 617427-001		REF:	
BY: RAGRA	Material:		

BALDOR

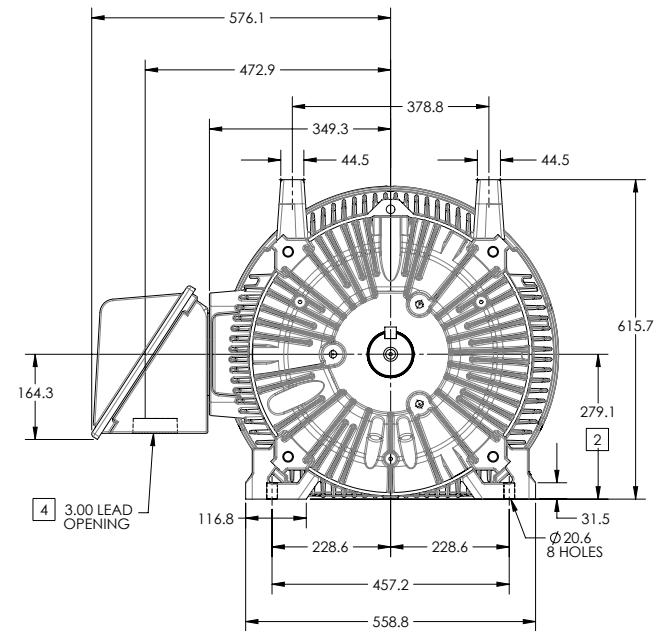
G445T444T STD - FOOTED - SIDE/CENTER C/B

617427-001

SQUIRREL-CAGE INDUCTION

COOLING: FAN COOLED

INCLUDES 444T FRAME MOUNTING HOLES



- 5 WEIGHT (KGS): 970

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

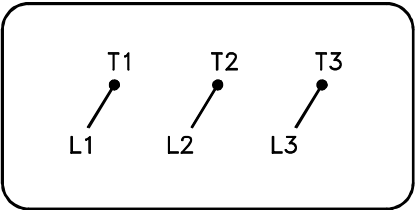
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION			
REV: E	VERSION: 05	REVISED: 09-22-56 06/12/2014	TDR: 000000857938
MODEL NO. 617427-001			REF:
BY: RAGRA		Material:	

G445T/444T STD – FOOTED – SIDE/CENTER C/B

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