

ABB BALDOR RELIANCE III

Customer information packet

ECP49302T-4

300HP, 3570RPM, 3PH, 60HZ, 449TS, A44128M, TEF

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	449TS
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	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	318.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	318.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44128M
Mounting Arrangement	F1

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1242
Layout	617423-001
Eff. date	03-31-2026
CD Diagram	416820-036
Poles	02
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	10-19-2010

Number of Poles	2
Overall Length	49.48 IN
Power Factor	91
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW													
CAT.NO.	ECP49302T-4				SPEC NO.	P44G5914							
HP	300	AMPS	318		VOLTS	460		DESIGN	B				
FRAME	449TS	RPM	3570		HZ	60	AMB	40	SF	1.15			
DRIVE END BEARING	65BC03J30X		PH	3	DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	65BC03J30X		TYPE	P	ENCL	TEFC	CODE	G					
D.E.BRG.DATA	6313		POWER FACTOR			91	NEMA NOM EFFICIENCY				96.2		
O.D.E.BRG.DATA	6313		MAX CORR KVAR			30.0	GUARANTEED EFFICIENCY				95.8		
3/4 LOAD EFF.	96.2		NEMA NOM/CSA QUOTED EFF										
SER.NO.					MOTOR WEIGHT								

ABB BALDOR RELIANCE III							ECP49302T-4 - 300HP, 3570RPM, 3PH, 60HZ, 449TS, A44128M, TEF										
S/O		CUSTOMER INFORMATION		PACKET		FRAME		HP		TYPE		PHASE/ HERTZ		RPM		VOLTS	
		449TS		300		P		3/60		3570		460					
AMPS		DUTY		AMB °C/ INSUL		S.F.		NEMA DESIGN		CODE LETTER		ENCLOSURE					
318		CONT		40/F		1.15		B		G		TEFC					
E/S		ROTOR		TEST S.O.		TEST DATE		STATOR RES. @25 °C OHMS (BETWEEN LINES)									
833183		418143-3SE		---		---		.00934									
PERFORMANCE																	
LOAD		HP		AMPERES		RPM		% POWER FACTOR		% EFFICIENCY							
NO LOAD		0		59.8		3600		6.29		0							
1/4		75.0		109		3593		68.4		94.3							
2/4		150		171		3586		85.3		96.3							
3/4		225		242		3578		90.2		96.5							
4/4		300		318		3571		91.7		96.4							
5/4		375		399		3562		91.6		96.0							
SPEED TORQUE																	
				RPM		TORQUE % FULL LOAD		TORQUE LB.-FT.		AMPERES							
LOCKED ROTOR				0		159		703		2149							
PULL UP				1620		142		627		1977							
BREAKDOWN				3464		274		1208		1062							
FULL LOAD				3571		100		441		318							
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																	
TYPICAL DATA NEMA NOM. EFF. - 96.2% GUAR. MIN. EFF. - 95.8%																	
				DRAWN BY: <u>J.J.HARRISON</u> CHECKED BY: <u>W.L.SMITH</u> APPROVED BY: <u>W.L.SMITH</u> DATE: <u>08/04/10</u>				AC MOTOR PERFORMANCE DATA				A44WG1242-R001 DATE ISSUED 03/30/20					

FRAME 449TS

RPM 3570

S.F. 1.15

ROTOR 48143-3SE

HP 300

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 318

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

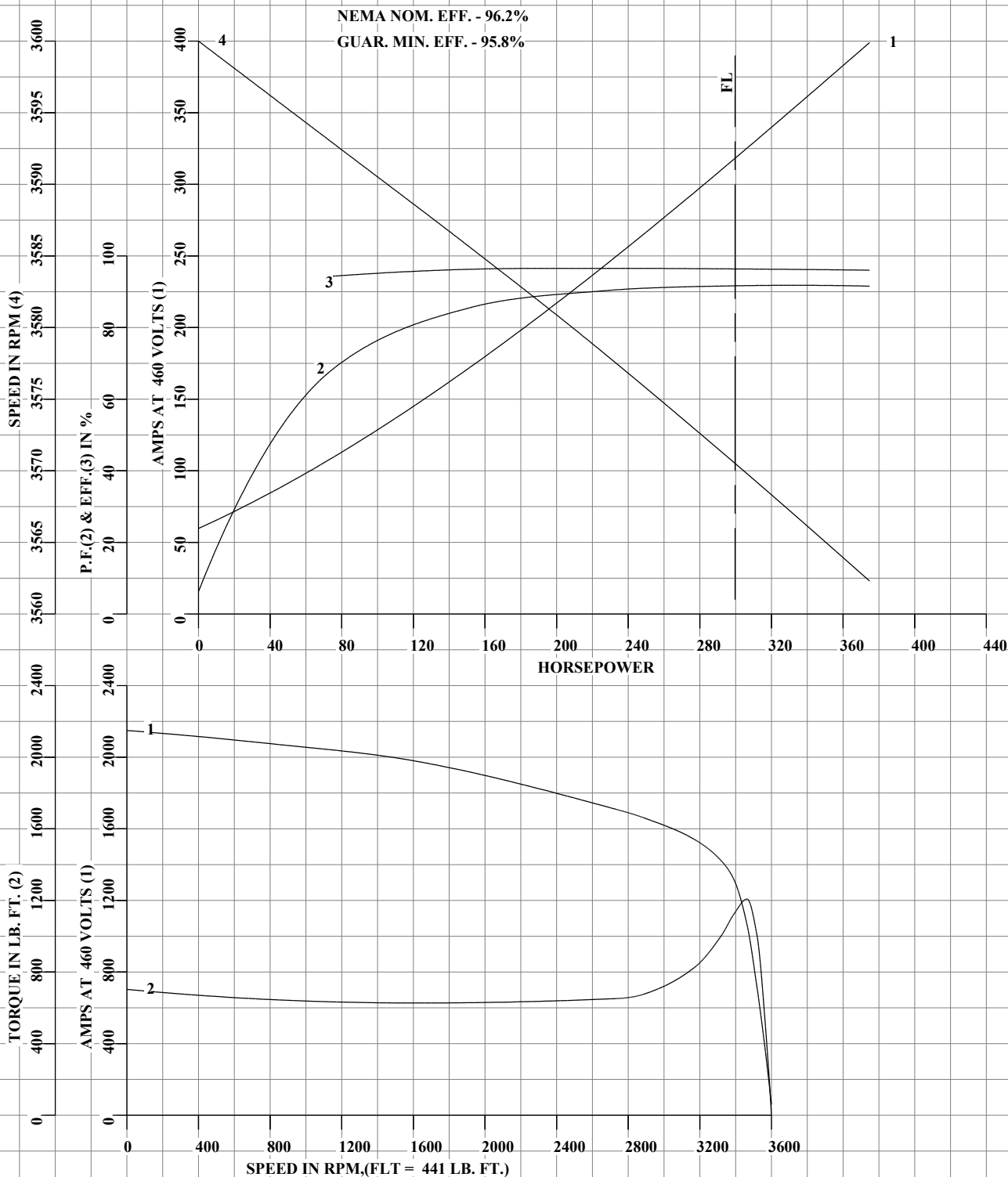
ENCLOSURE TEFC

STATOR RES. @ 25°C .00934

AMB °C / INSUL 40/F

E/S 833183

OHMS (BETWEEN LINES)



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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ISSUE DATE 03/30/2026

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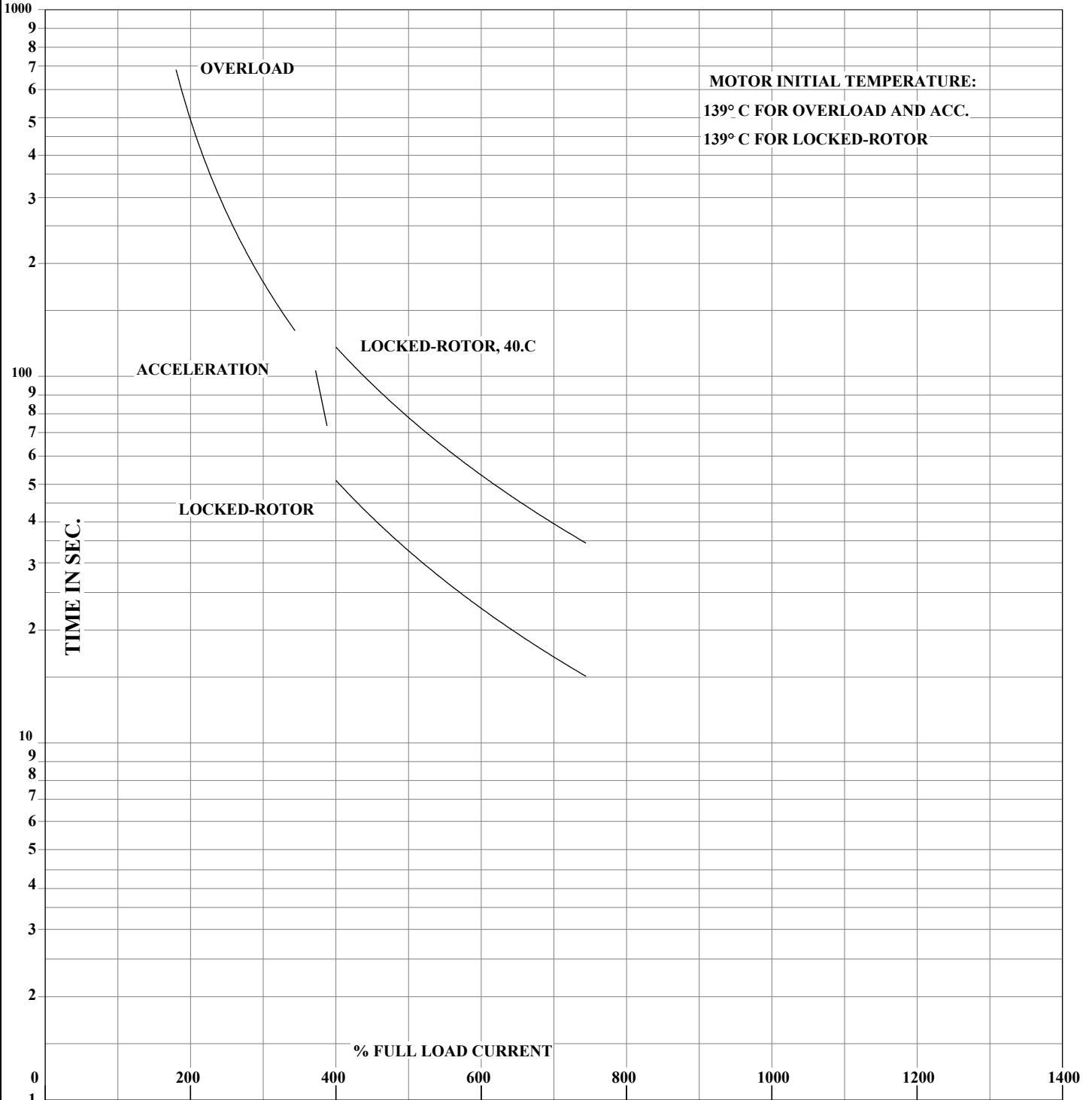
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OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOM. EFF. - 96.2%

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AC MOTOR
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A44WG1242-R001

ISSUE DATE 03/30/2026

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

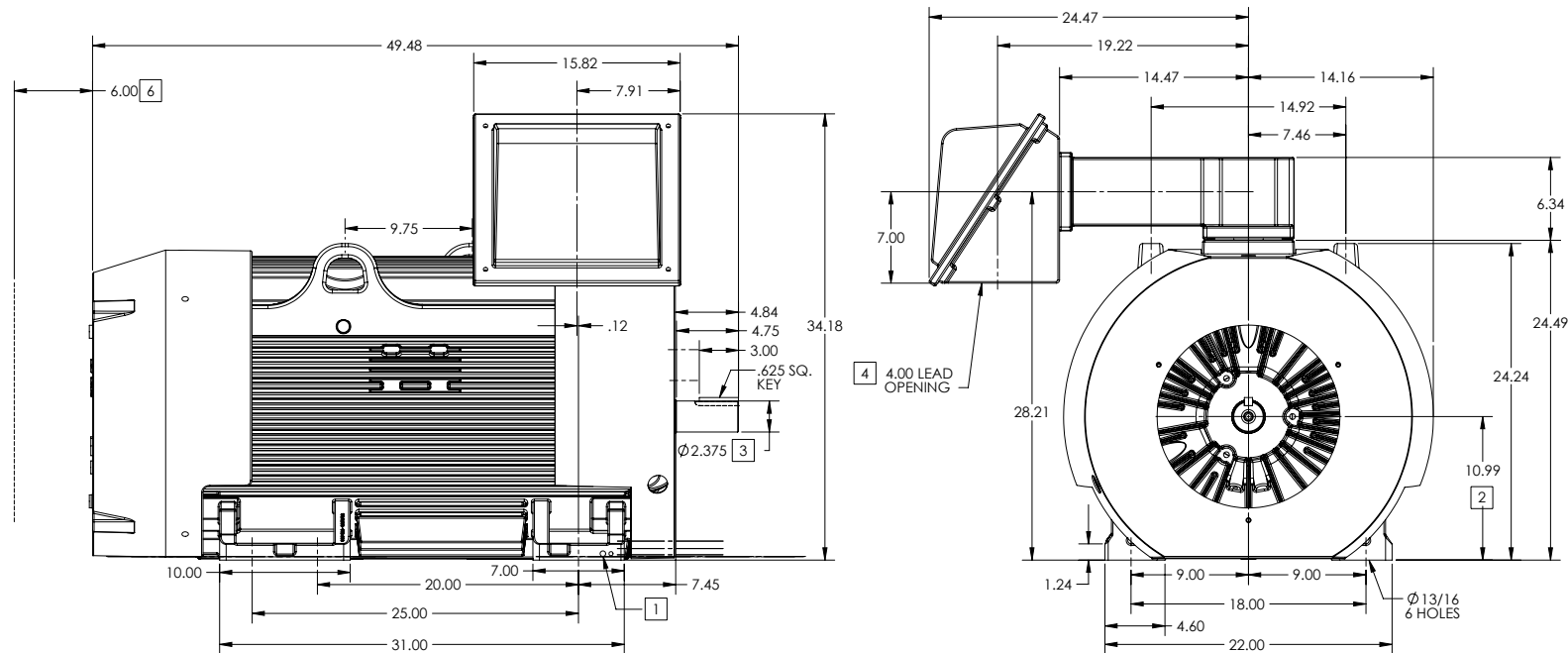
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449TS ABOVE NEMA RATINGS (3600 RPM MAX)

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 447TS 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. 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 NO 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.

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.

REV. DESC: ADD "DRIVE END AIR DEFLECTOR-" NOTE	
REV: B	VERSION: 02
MODEL NO. 617423-001	REVISED: 09-55-44 03/30/2011
BY: MGH/TL	TDR: 00000588597

BALDOR

DIM SHEET G449 TEF

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

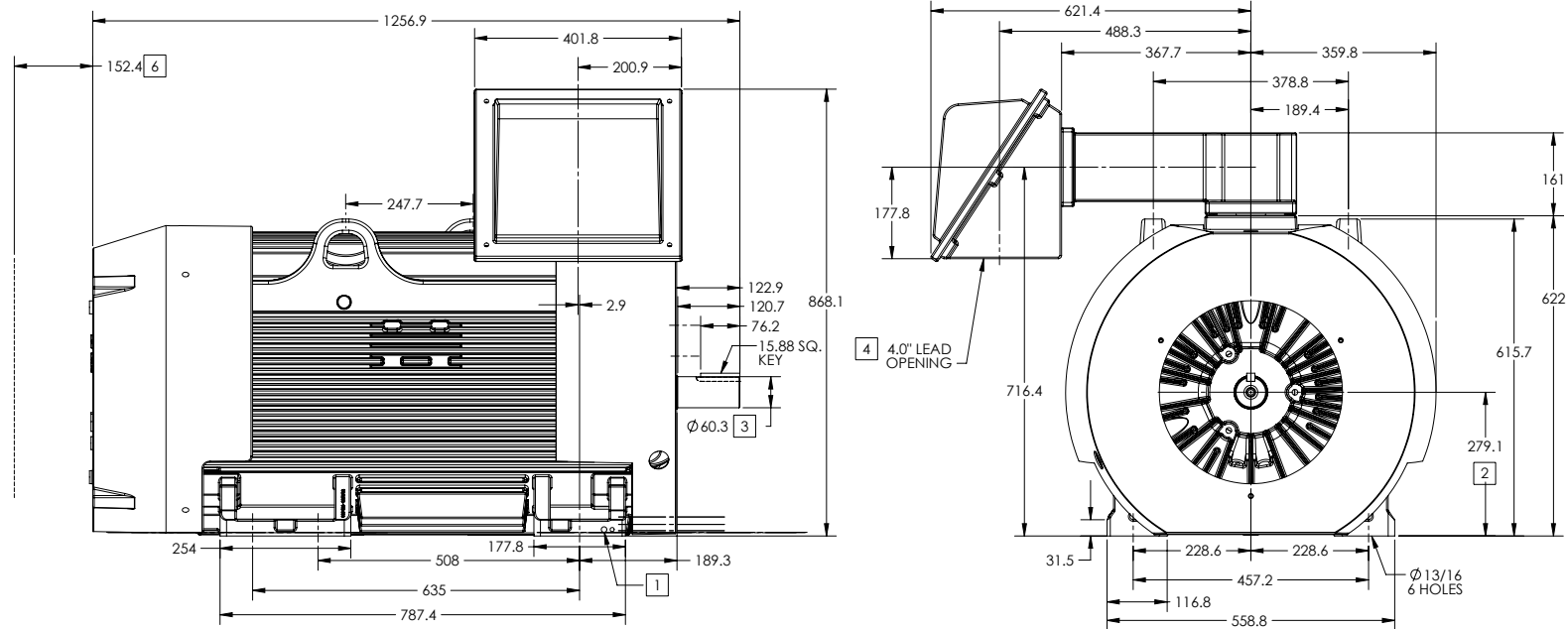
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3. VARIES +.000, -.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
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IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

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

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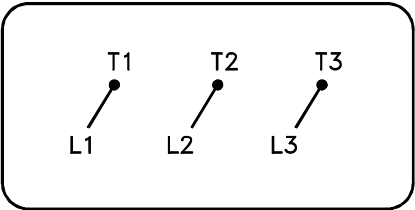
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BY: MGH/TL	TDR: 00000588597

BALDOR

DIM SHEET G449 TEF

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