

ABB BALDOR RELIANCE III

Customer information packet

ECR93506TR-4

350HP, 1190RPM, 3PH, 60HZ, L 449T, A44208M, TE

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	L449T
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	350.000 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	30-60
Current @ Voltage	433.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	433.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Max Speed	3000 rpm
Motor Lead Quantity/Wire Size	12 @ 2 AWG

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5184
Layout	617423-218
Eff. date	04-20-2021
CD Diagram	416820-036
Poles	06
Leads	3#2 (04 per group)
Proprietary	False
Created date	02-11-2015

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	60.21 IN
Power Factor	79
Product Family	Crusher / Chipper
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	Shaft Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

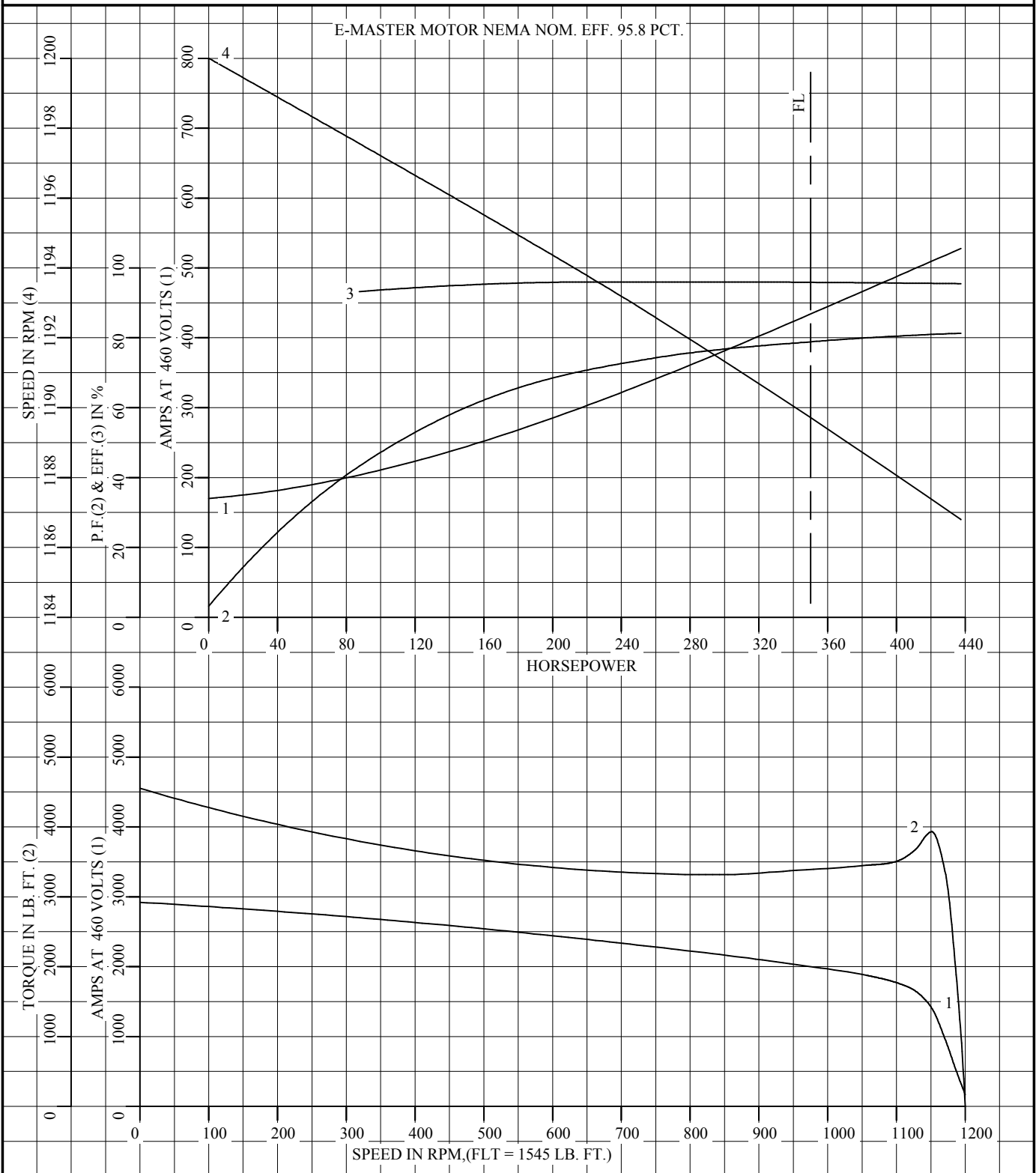
Nameplate

000613007PV																	
CAT NO	ECR93506TR-4				SPEC NO.		P44G1823										
HP	350	AMPS		433	VOLTS		460		DESIGN		A						
RPM	1190	RPM MAX		3000	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
FRAME	L 449T		I.P.		55	TYPE		P	ENCL		TEFC		CODE		H		
POWER FACTOR	79		3/4 LOAD EFF.			96.0			NEMA NOM EFFICIENCY				95.8				
CHP HZ	60-90		CT HZ		30-60		VT HZ		0-60								
SER.NO.					MOTOR WEIGHT												

NP2496L	
MOBIL SHC -220 GREASE	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	350	P	3/60	1190	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
433	CONT	40/F	1.15	A	H	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418143088TE	---	---	.00947		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	170	1200	3.20	0	
1/4	87.6	203	1198	43.3	93.2	
2/4	175	264	1195	64.9	95.6	
3/4	262	344	1193	74.4	96.0	
4/4	350	434	1190	78.8	95.9	
5/4	438	528	1187	81.3	95.5	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	295	4553	2921	
PULL UP		845	215	3316	2171	
BREAKDOWN		1151	254	3931	1406	
FULL LOAD		1190	100	1545	434	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA E-MASTER MOTOR NEMA NOM. EFF. 95.8 PCT.						
		DR. BY	CD	A-C MOTOR PERFORMANCE DATA A44WG5184-R001 ISSUE DATE 11/19/19		
		CK. BY	T.K ELATI			
		APP. BY	T. KELATI			
		DATE	02/11/2015			

REL S.O.	RPM 1190	S.F. 1.15	ROTOR 418143088TE
FRAME L449T	VOLTS 460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
HP 350	AMPS 433	CODE LETTER H	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .00947
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



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

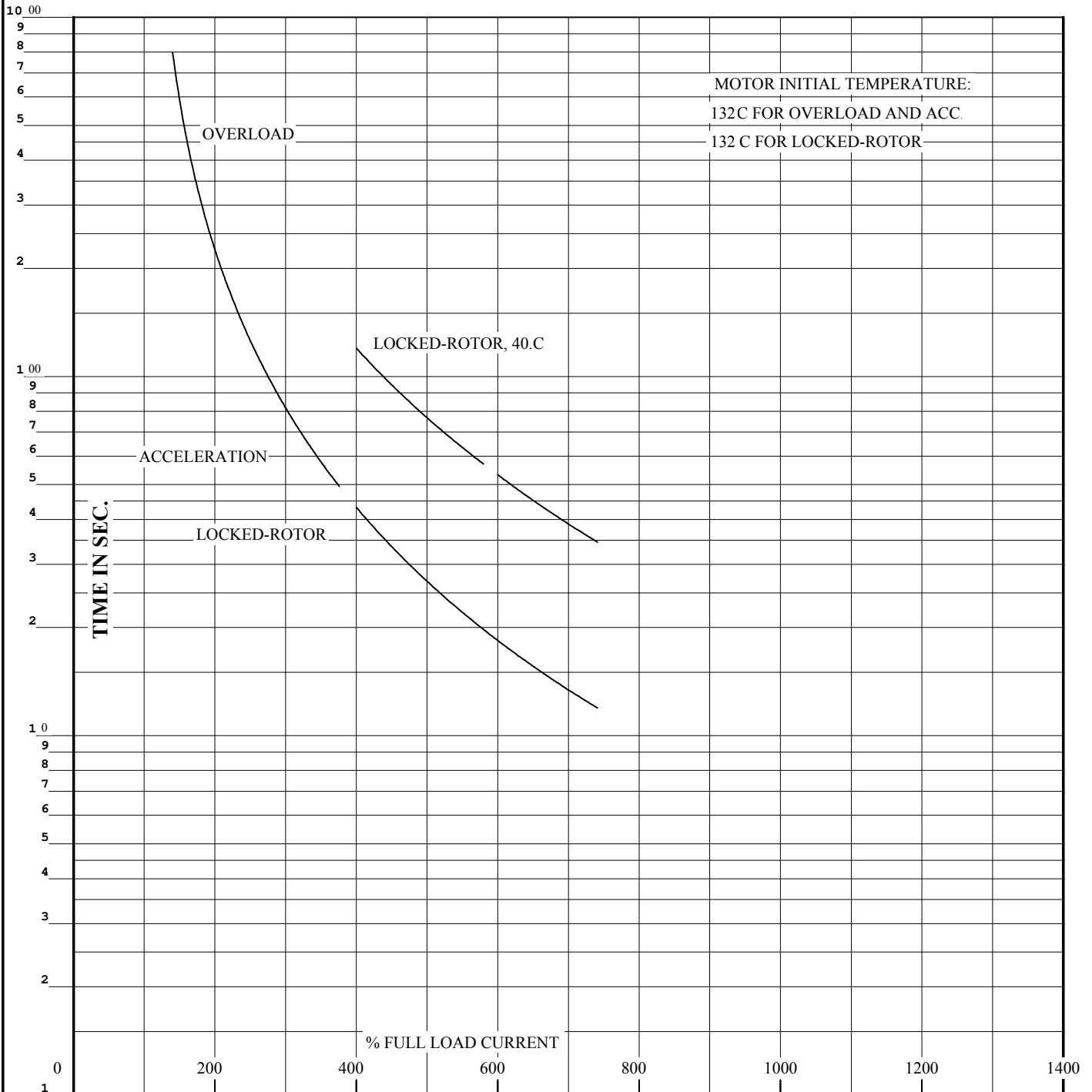
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY CD
CK. BY T.K. ELATI
APP. BY T. KELATI
DATE 02/11/2015

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG5184-R001
ISSUE DATE 11/19/19

REL. S.O.	RPM 1190	S.F. 1.15	ROTOR 418143088TE
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THERMAL LIMIT CURVE

REMARKS: E-MASTER MOTOR NEMA NOM. EFF. 95.8 PCT.

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DR. BY	CD
CK. BY	T.K. ELATI
APP. BY	T. KELATI
DATE	02/11/2015

**A-C MOTOR
PERFORMANCE
CURVES**
A44WG5184-R001

ISSUE DATE 11/19/19 Page 8 of 11

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

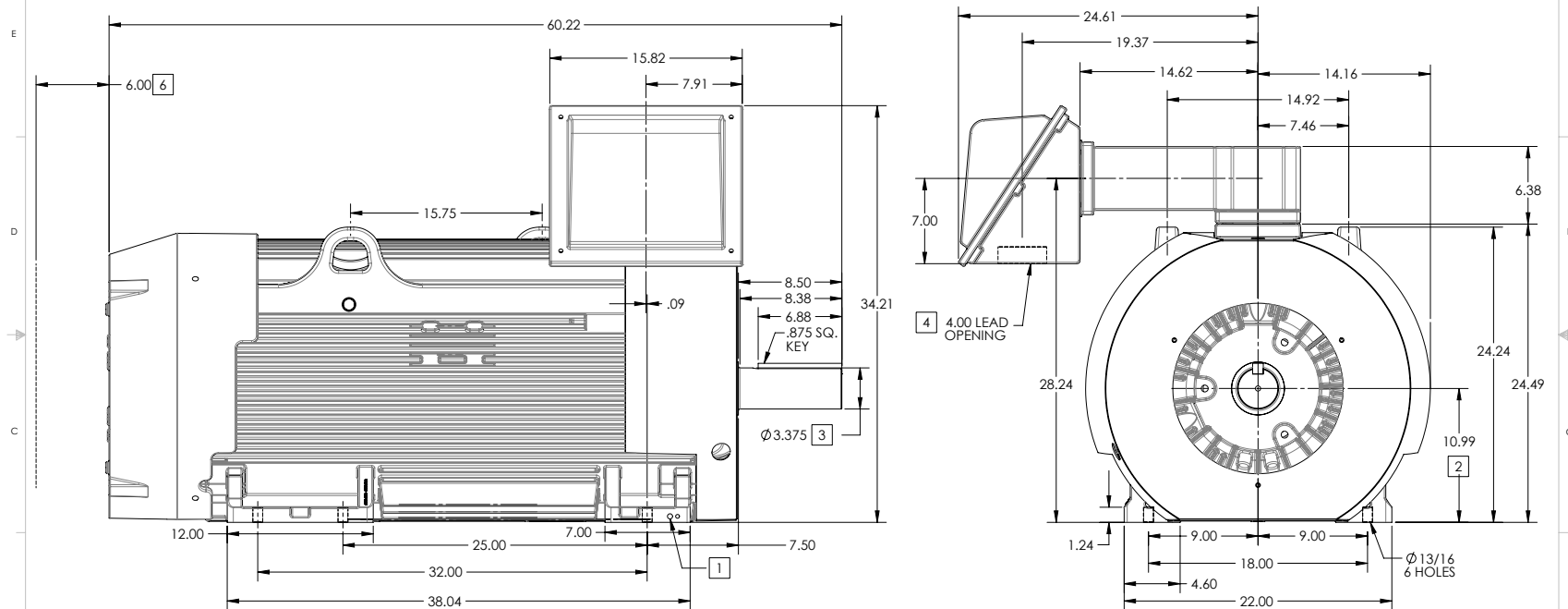
ENCLOSURE: TOTALLY ENCLOSED

FRAME GL449T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES G449T 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.

WEIGHT (LBS): 3875

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.

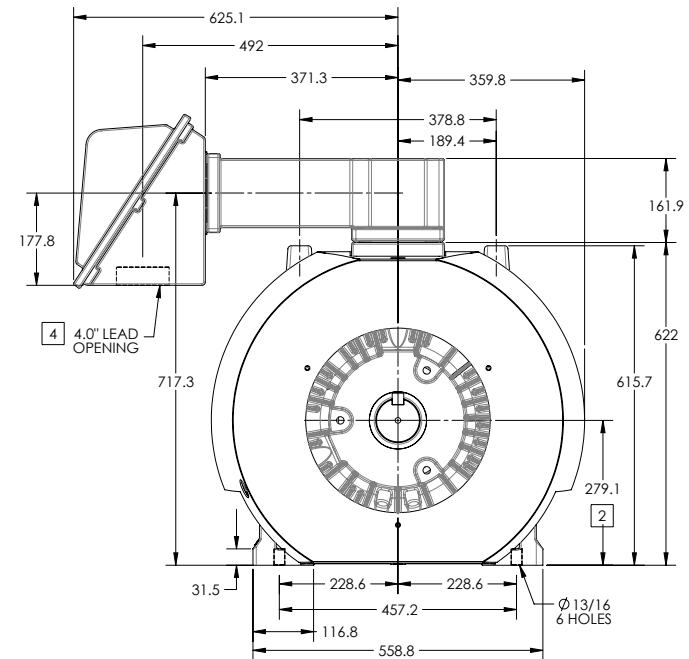
REV. DESC: NEW ISSUE			
REV: -	VERSION: 00	REVISED: 09-28-57 02/11/2015	TDR: 000000884510
MODEL NO. 617423-218		REF:	
BY: RAGGDM	Material:		

BALDOR

G28 DIMENSION SHEET ASSEMBLY: GL449/449T BA-7.50

SQUIRREL-CAGE INDUCTION

INCLUDES G449T FRAME MOUNTING HOLES



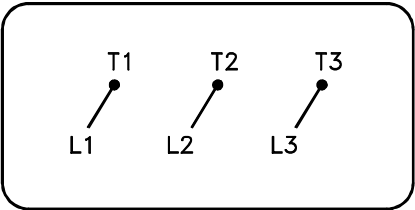
- CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

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

G28 DIMENSION SHEET ASSEMBLY: GL449/449T BA=7.50

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