

ABB BALDOR RELIANCE III

Customer information packet

ECR92508TR-4

250HP, 900RPM, 3PH, 60HZ, GL449T, TEFC

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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 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	359.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	359.0 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	6 @ 2/0 AWG

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5268
Layout	617423-218
Eff. date	04-20-2021
CD Diagram	416820-036
Poles	08
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	05-07-2015

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	60.22 IN
Power Factor	68
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	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

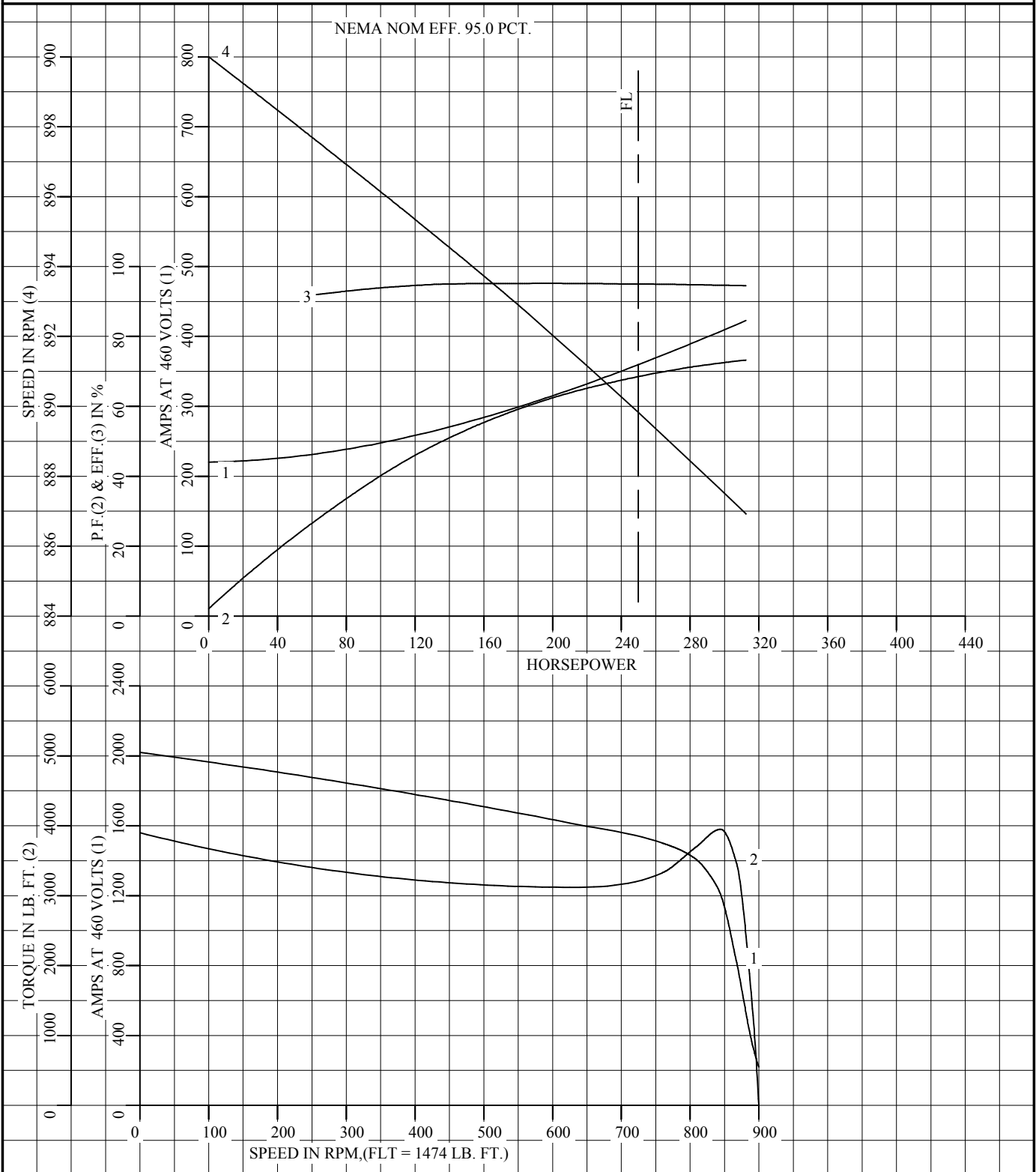
Nameplate

000613007PV													
CAT NO	ECR92508TR-4			SPEC NO.	P44G1829								
HP	250	AMPS	359	VOLTS	460	DESIGN	A						
RPM	890	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	68	3/4 LOAD EFF.	95.2	NEMA NOM EFFICIENCY	95								
CHP HZ	60-90	CT HZ	30-60	VT HZ	6-60								
SER.NO.		MOTOR WEIGHT	3732										

NP2496L	
MOBIL SHC -220 GREASE	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	L449T	250	P	3/60	890	460		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
359	CONT	40/F	1.15	A	H	TEFC		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
-	418143-094-WE	---	---	.0125				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	220	900	2.12	0			
1/4	62.6	232	898	27.5	91.9			
2/4	125	261	895	47.3	94.7			
3/4	187	305	893	60.4	95.2			
4/4	250	359	890	68.5	95.0			
5/4	313	423	887	73.2	94.5			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	265	3899	2019			
PULL UP		630	212	3120	1612			
BREAKDOWN		844	268	3950	1205			
FULL LOAD		890	100	1474	359			
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: NEMA NOM EFF. 95.0 PCT.								
		DR. BY	CD	A-C MOTOR PERFORMANCE DATA				
		CK. BY	T. KELATI					
		APP. BY	T. KELATI					
		DATE	08/26/2015					
				A44WG5268-R001 ISSUE DATE 08/26/20				

REL S.O.	RPM 890	S.F. 1.15	ROTOR 418143-094-WE
FRAME L449T	VOLTS 460	NEMA DESIGN A	TEST S.O. ---
HP 250	AMPS 359	CODE LETTER H	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0125
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. KELATI
APP. BY T. KELATI
DATE 08/26/2015

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG5268-R001
ISSUE DATE 08/26/2015

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

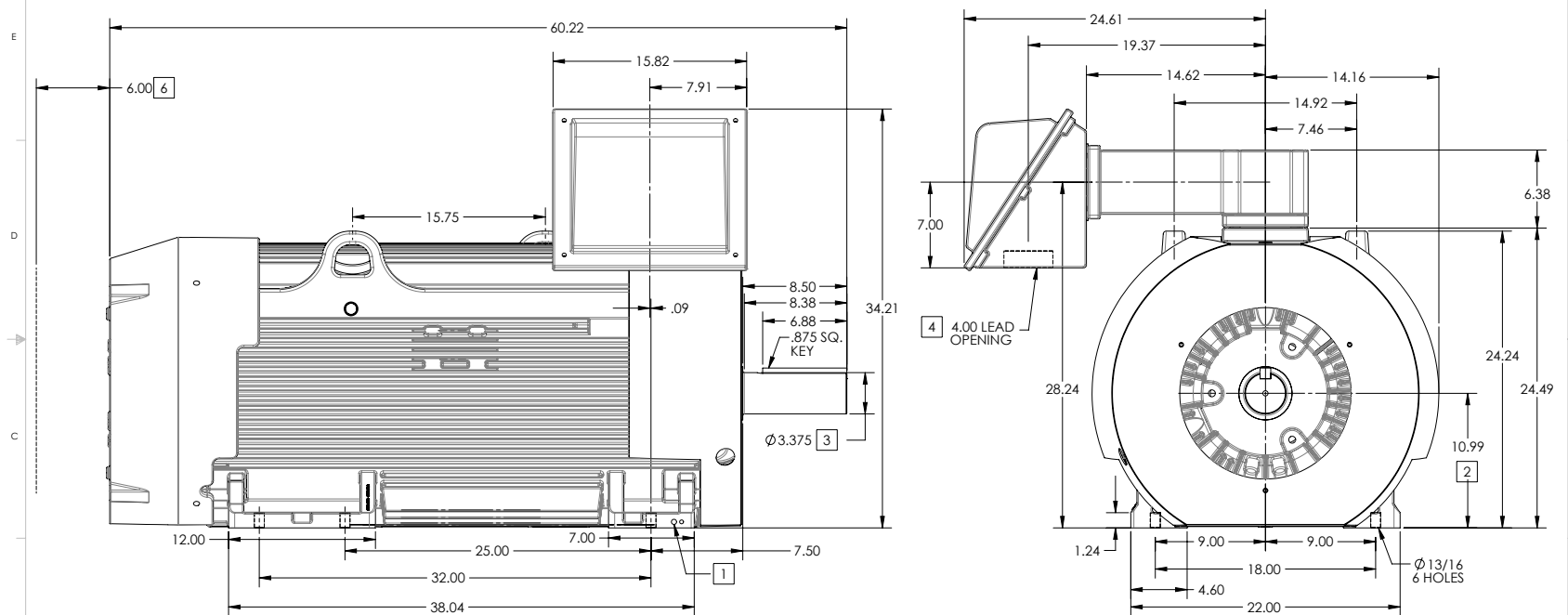
ENCLOSURE: TOTALLY ENCLOSED

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

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

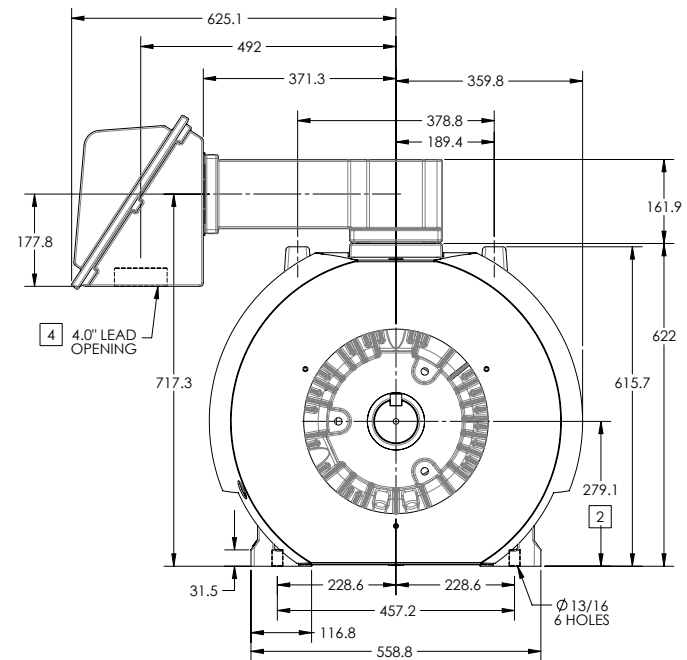
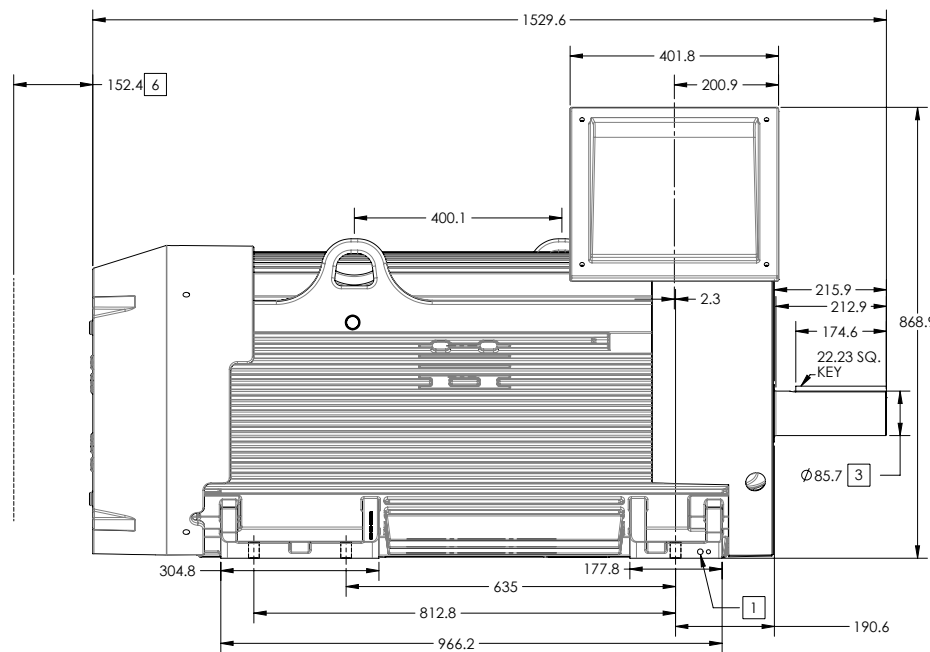
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FRAME GL449T ABOVE NEMA RATINGS

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MOUNTING: FOOT

INCLUDES G449T FRAME MOUNTING HOLES



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- VARIES +.00-.06
- VARIES +.000-.001
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- MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
- 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 .08 MM T.I.R. TO 127 MM DIA.

WEIGHT (KGS): 1760

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

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

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

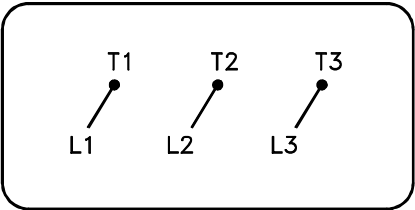
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BY: RAGGDM	Material:		

BALDOR

G28 DIMENSION SHEET ASSEMBLY: GL449449T 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