ABB BALDOR RELIANCE

Customer information packet

ECP49404T-4

400HP, 1785RPM, 3PH, 60HZ, L449T, TEFC
Class - None
Division - Division II

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Specifications

Enclosure	TEFC
Frame	L449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	400.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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)
Constant Torque Speed Range	30-60
Current @ Voltage	435.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T2C
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	435.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 1 AWG

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5081
Layout	617423-352
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#1 (04 per group)
Proprietary	False
Created date	03-17-2014

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	60.21 IN
Power Factor	89
Pulley End Bearing Type	Ball
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	RTD Only

Nameplate

NP3238												
CAT NO	ECP49404T-4	**SPEC NO.**	P44G5919									
HP	400	**AMPS**	435	**VOLTS**	460	**DESIGN**	B					
FRAME	L 449T	**RPM**	1785	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	6222	**O.D.E. BRG.DATA**	6318	**PH**	3	**DUTY**	CONT	**INSUL.CLASS**	F			
D.E. BRG.	110BC02J30X	**TYPE**	P	**ENCL**	TEFC	**CODE**	G					
O.D.E. BRG.	90BC03J30X	**POWER FACTOR**	89	**NEMA NOM EFFICIENCY**	96.2							
3/4 LOAD EFF.	96.8	**MAX CORR KVAR**	54.0	**GUARANTEED EFFICIENCY**	95.4							
TEMP CODE	T2C	**TEMP =**	230									
CHP HZ	60-90	**CT HZ**	30-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T2C											
SER.NO.		**MOTOR WEIGHT**										

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	400	P	3/60	1785	460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
435	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
---	418143041SE	---	---	.00741

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	98.0	1800	4.35	0
1/4	100	142	1796	69.6	95.0
2/4	200	225	1792	86.1	96.5
3/4	300	326	1788	89.2	96.6
4/4	400	435	1783	89.4	96.2
5/4	500	547	1779	89.3	95.7

SPEED TORQUE

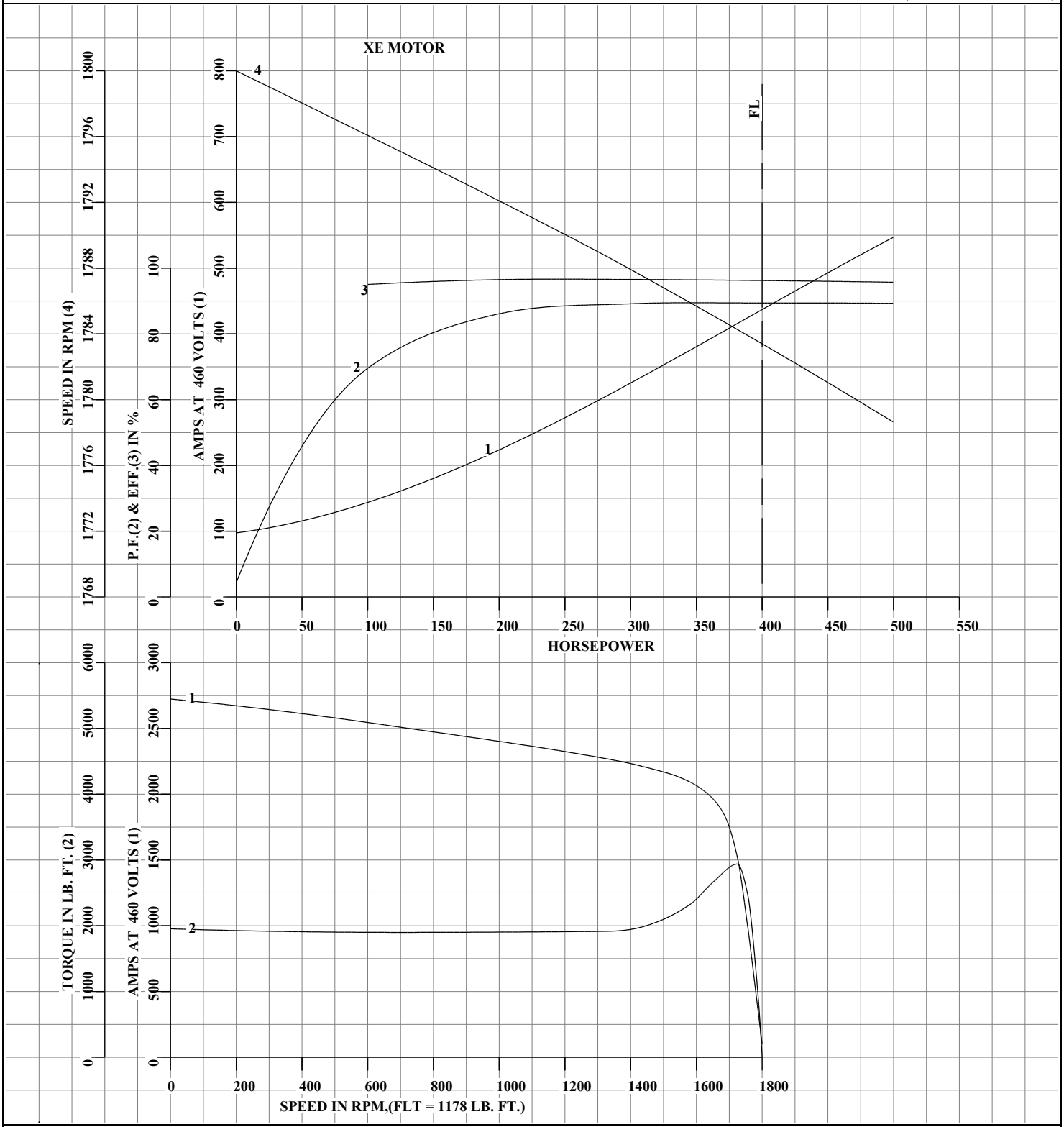
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	166	1953	2724
PULL UP	700	161	1899	2510
BREAKDOWN	1725	249	2938	1514
FULL LOAD	1783	100	1178	435

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

TYPICAL DATA
XE MOTOR

ABB	DRAWN BY: C.E. JAMISON CHECKED BY: W.L. SMITH APPROVED BY: W. L. SMITH DATE: 02/17/14	AC MOTOR PERFORMANCE DATA	A44WG5081-R001 DATE ISSUED 02/17/14

FRAME L449T	RPM 1785	S.F. 1.15	ROTOR 418143041SE
HP 400	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 435	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .00741
	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.

ABB	DRAWN BY: C.E. JAMISON CHECKED BY: W.L. SMITH APPROVED BY: W. L. SMITH DATE: 02/17/14	AC MOTOR PERFORMANCE DATA	A44WG5081-R001 ISSUE DATE 02/17/14

DUTY MASTER ALTERNATING CURRENT MOTORS

617423-352

SQUIRREL-CAGE INDUCTION

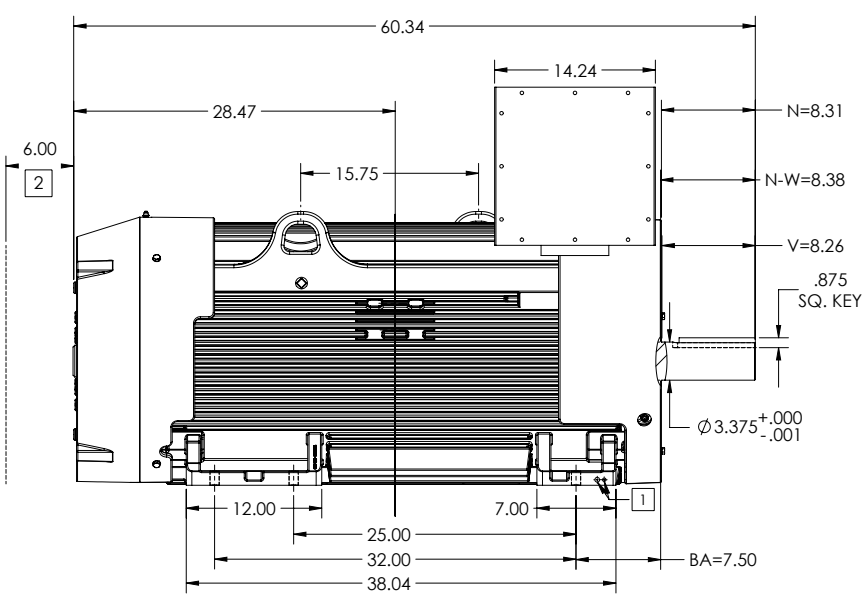
ENCLOSURE: TOTALLY ENCLOSED

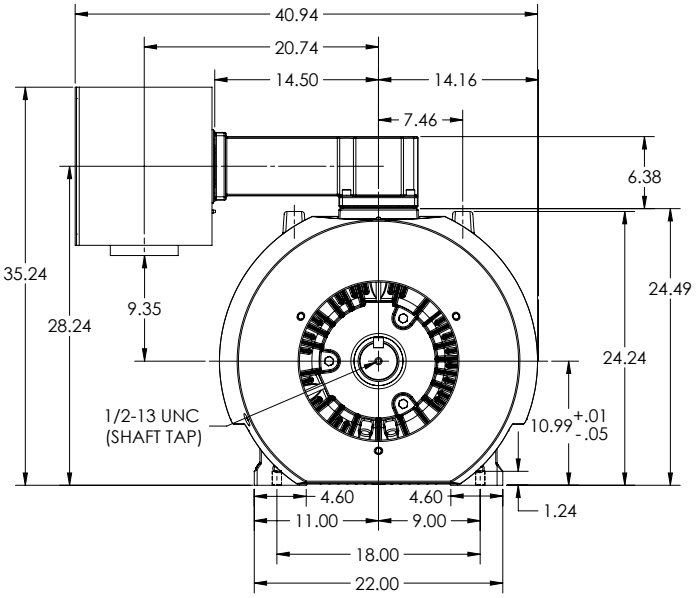
MOUNTING: FOOT, F-1

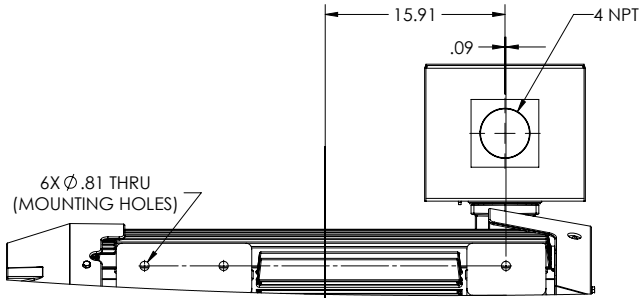
GL449T/G449T FRAME MOUNTING HOLES

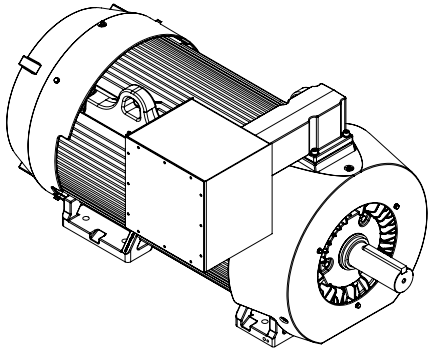
COOLING: FAN COOLED

OVERSIZED 14X14X12 STEEL BOX









1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. 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.

617423-352

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS.
WEIGHT (LBS): 3875, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: CHANGING TITLE BLOCK DS NUMBER TO 617423-352			
REV: A	VERSION: 01	REVISED: 11:15:45 04/04/2023	TDR: 000001206942
MODEL NO. 617423-352			REF: -
BY: USERWAL2	Material: –	C	

BALDOR

GL449/449T F1 FT TEFC -TOP MNT C/BOX 14X14X12- V-RING SLGRS

617423-352

DUTY MASTER ALTERNATING CURRENT MOTORS

617423-352

SQUIRREL-CAGE INDUCTION

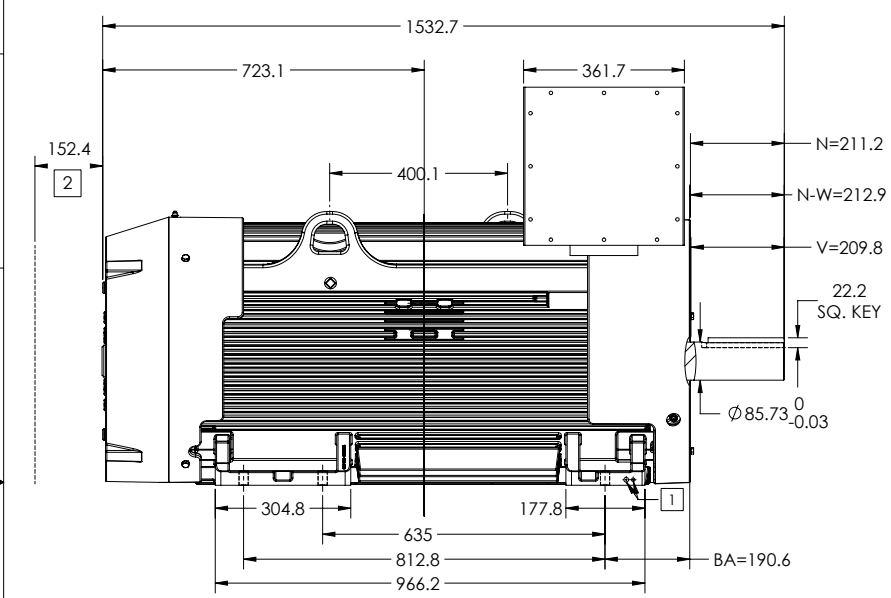
ENCLOSURE: TOTALLY ENCLOSED

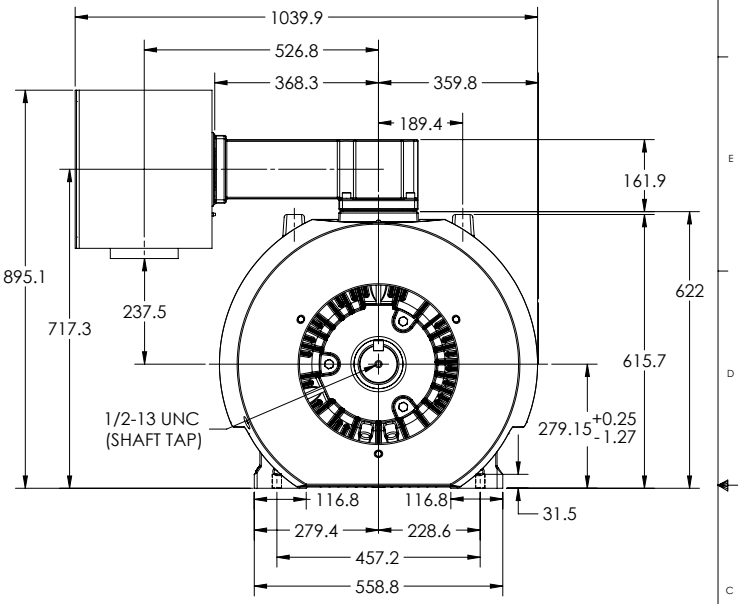
MOUNTING: FOOT, F-1

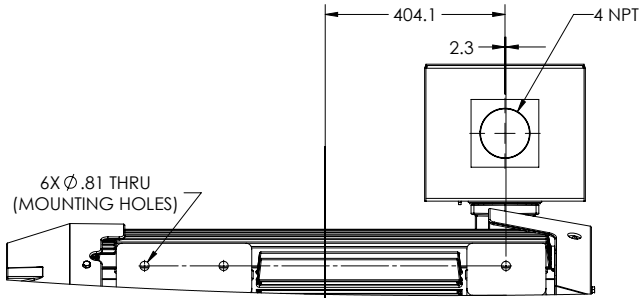
GL449T/G449T FRAME MOUNTING HOLES

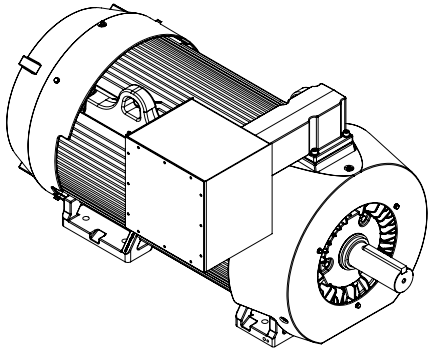
COOLING: FAN COOLED

OVERSIZED 14X14X12 STEEL BOX









1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. 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.

617423-352

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES
WEIGHT (KGS): 1760, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: CHANGING TITLE BLOCK DS NUMBER TO 617423-352			
REV: A	VERSION: 01	REVISED: 11:15:45 04/04/2023	TDR: 000001206942
MODEL NO. 617423-352			REF: -
BY: USERWAL2	Material: –		C

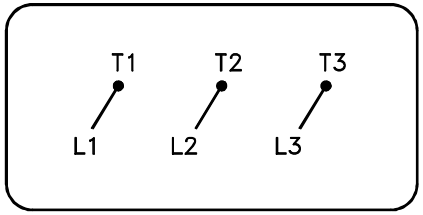
BALDOR

GL449/449T F1 FT TEFC -TOP MNT C/BOX 14X14X12- V-RING SLGRS

617423-352

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			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1