ABB BALDOR RELIANCE

Customer information packet

CR44304TR-4

300HP, 1785RPM, 3PH, 60HZ, 449T, A44120M, TEFC
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	RG
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Current @ Voltage	353.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	353.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44120M
Mounting Arrangement	F1
Number of Poles	4

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A44WG1451
Layout	617427-003
Eff. date	03-04-2016
CD Diagram	416820-036
Poles	04
Leads	3#2 (04 per group)
Proprietary	False
Created date	08-21-2012

Overall Length	53.24 IN
Power Factor	83
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.15
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	None

Nameplate

000613007EV												
CAT NO				**SPEC NO.**	P44G3995							
HP	300	**AMPS**	353		**VOLTS**	460		**DESIGN**	A			
FRAME	449T	**RPM**	1785	**HZ**	60	**C AMB**	40		**SF**	1.15		
D.E. BRG.	110RU02M30X		**PH**	3	**DUTY**	CONT		**INSUL.CLASS**	F			
O.D.E. BRG.	90BC03J30X		**TYPE**	P	**ENCL**	TEFC	**CODE**	H				
D.E.BRG.DATA	222		**POWER FACTOR**	83			**NEMA NOM EFFICIENCY**	95.4				
O.D.E.BRG.DATA	6318		**MAX CORR KVAR**	79.0			**GUARANTEED EFFICIENCY**	95.0				
3/4 LOAD EFF.	95.5		**NEMA NOM/CSA QUOTED EFF**									
SER.NO.			**MOTOR WEIGHT**	2676								

000901002AAA
GREASE: MOBIL SHC-220
DESIGN C CHAR

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	300	P	3/60	1785	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
353	CONT	40/F	1.15	A	H	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
433751	418143037WE	---	---	.00975

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	119	1800	5.29	0
1/4	75.0	148	1796	51.9	91.3
2/4	150	206	1793	72.1	94.6
3/4	225	275	1789	80.2	95.5
4/4	300	353	1785	83.2	95.6
5/4	375	434	1781	84.7	95.4

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	329	2902	2617
PULL UP	1335	213	1881	2226
BREAKDOWN	1728	257	2270	1189
FULL LOAD	1785	100	882	353

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

REMARKS: TYPICAL DATA

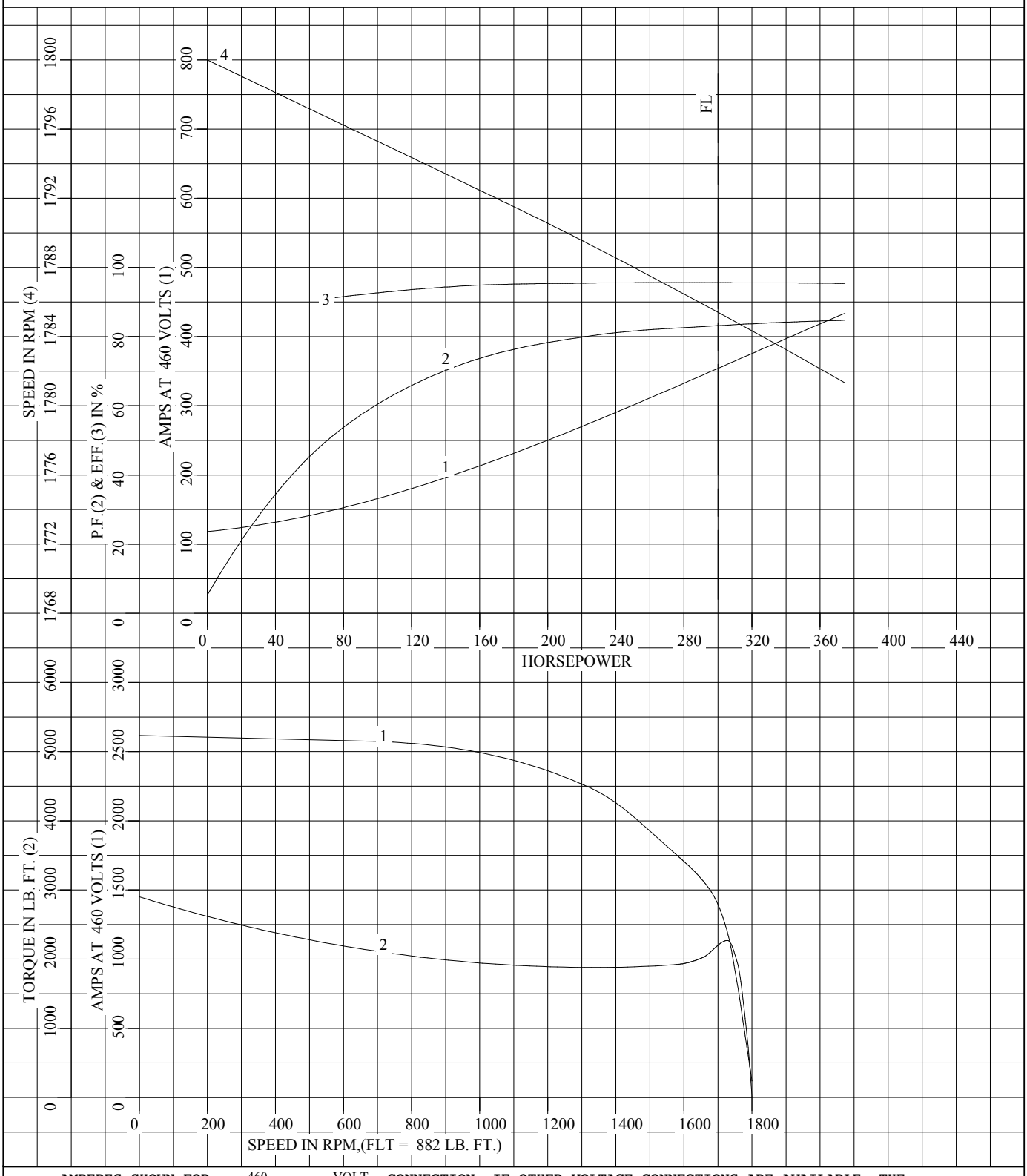
BALDOR

DR. BY W. L. SMITH
CK. BY J.J.HARRISON
APP. BY K. W. KANOUFF
DATE 05/25/04

A-C MOTOR PERFORMANCE DATA

A44WG1451-R001
ISSUE DATE 12/18/10

FRAME 449T	RPM 1785	S.F. 1.15	ROTOR 418143037WE
HP 300	VOLTS 460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
TYPE P	AMPS 353	CODE LETTER H	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃ .00975
	AMB ℃/INSUL 40/F	E/S 433751	OHMS (BETWEEN LINES)



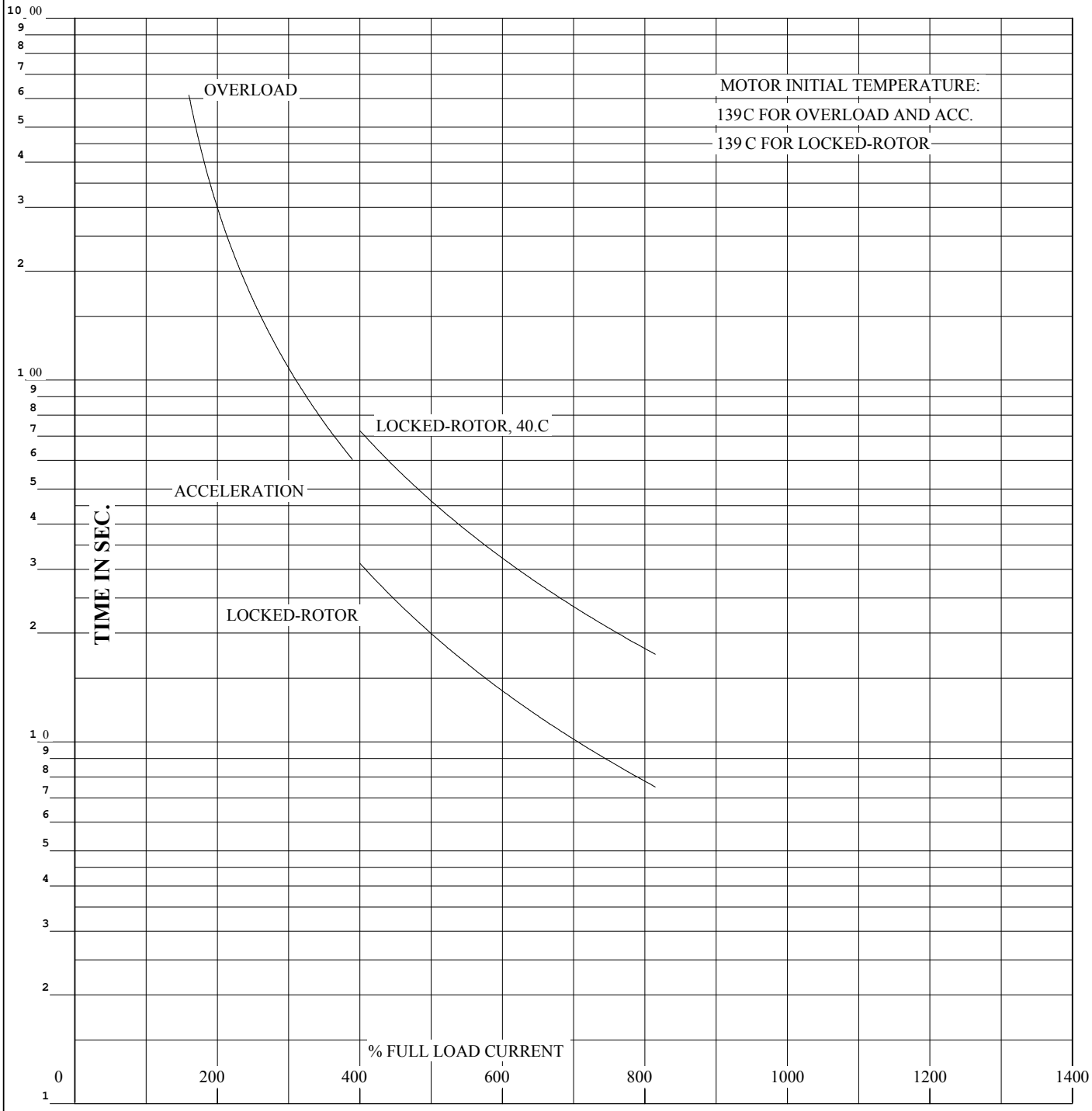
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY	W. L. SMITH
CK. BY	J.J.HARRISON
APP. BY	K. W. KANOUFF
DATE	05/25/04

A–C MOTOR PERFORMANCE CURVES A44WG1451-R001 ISSUE DATE 12/18/10

REL. S.O.	RPM 1785	S.F. 1.15	ROTOR 418143037WE
FRAME 449T	VOLTS 460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
HP 300	AMPS 353	CODE LETTER H	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C.00975
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 433751	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

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BALDOR

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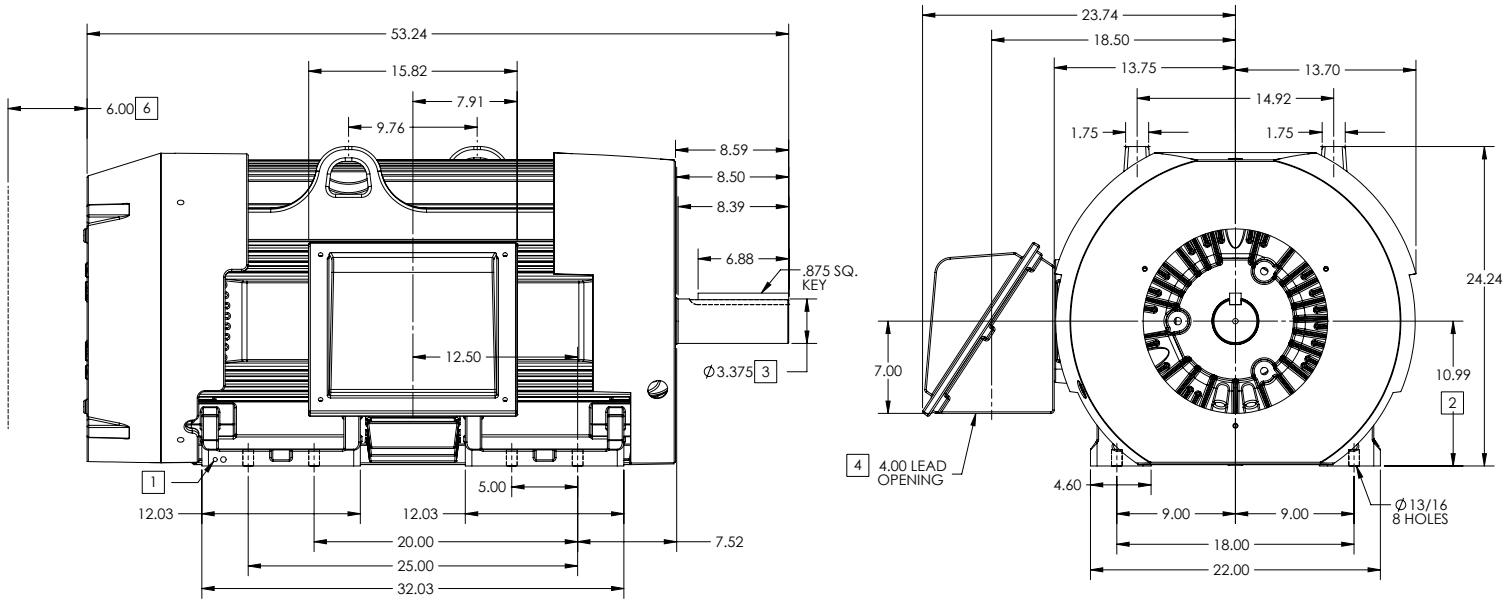
617427-003

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED FRAME 449T ABOVE NEMA RATINGS (1800 RPM MAX) COOLING: FAN COOLED

MOUNTING: FOOT INCLUDES 447T 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 15% 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.

5 WEIGHT (LBS): 3080

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

617427-003

REV. DESC: NEW DRAWING			
REV: B	VERSION: 02	REVISED: 11:32:36 10/23/2017	TDR: 000001048162
MODEL NO. 617427-003			
BY: RAGRA			C

BALDOR

G449T/447T STD – FOOTED – SIDE/CENTER C/B

617427-003

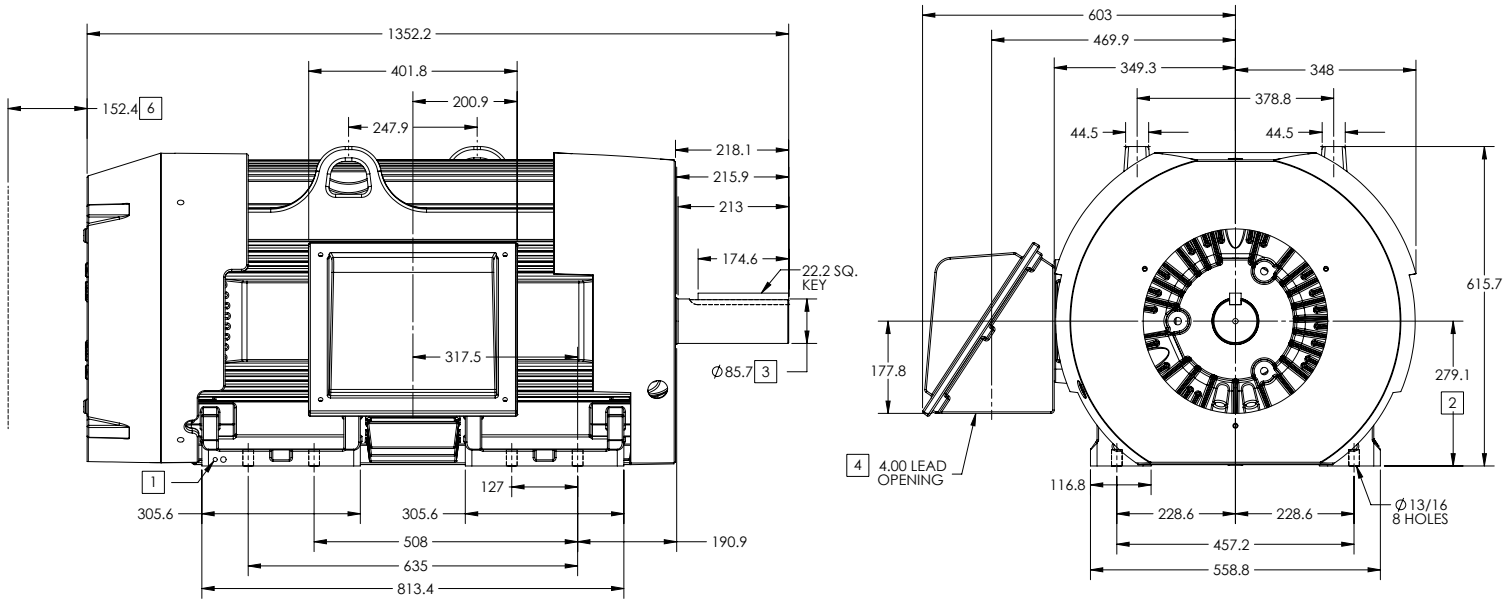
617427-003

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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 15% 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 .08 MM T.I.R. TO 127 MM DIA.

5 WEIGHT (KGS): 1400

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.

SHEET NUMBER 2 OF 2

617427-003

REV. DESC: NEW DRAWING			
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MODEL NO. 617427-003			
BY: RAGRA			C

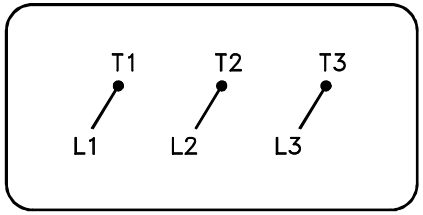
BALDOR

G449T/447T STD – FOOTED – SIDE/CENTER C/B

617427-003

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
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