ABB BALDOR RELIANCE

Customer information packet

ECR4409TR-4

100HP, 1190RPM, 3PH, 60HZ, 444T, A44084M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	444T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	Mobil SHC 220 (Athens Only)
Current @ Voltage	119.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	119.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA
Motor Type	A44084M
Mounting Arrangement	F1

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	NLA/A
Elec. spec.	A44WG1491
Layout	617427-001
Eff. date	08-20-2026
CD Diagram	416820-036
Poles	06
Leads	3#1
Proprietary	False
Created date	08-22-2012

Number of Poles	6
Overall Length	44.75 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	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EV												
CAT NO				**SPEC NO.**	P44G3997							
HP	100	**AMPS**	119			**VOLTS**	460			**DESIGN**	A	
FRAME	444T	**RPM**	1190	**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			
O.D.E.BRG.DATA	6318			**MAX CORR KVAR**	20.0			**GUARANTEED EFFICIENCY**	94.1			
3/4 LOAD EFF.	95			**NEMA NOM/CSA QUOTED EFF**								
SER.NO.				**MOTOR WEIGHT**								

000901002AAA
GREASE: MOBIL SHC-220
DESIGN C CHAR

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	100	P	3/60	1190	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
497773	418143098RE	---	---	.0434

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	34.5	1200	5.37	0
1/4	25.0	54.7	1197	46.7	91.7
2/4	50.0	71.9	1194	68.8	94.6
3/4	75.0	93.8	1191	78.6	95.2
4/4	100	119	1188	82.9	95.1
5/4	125	146	1185	84.8	94.6

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	226	998	868
PULL UP	840	223	988	625
BREAKDOWN	1143	273	1207	458
FULL LOAD	1188	100	442	119

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

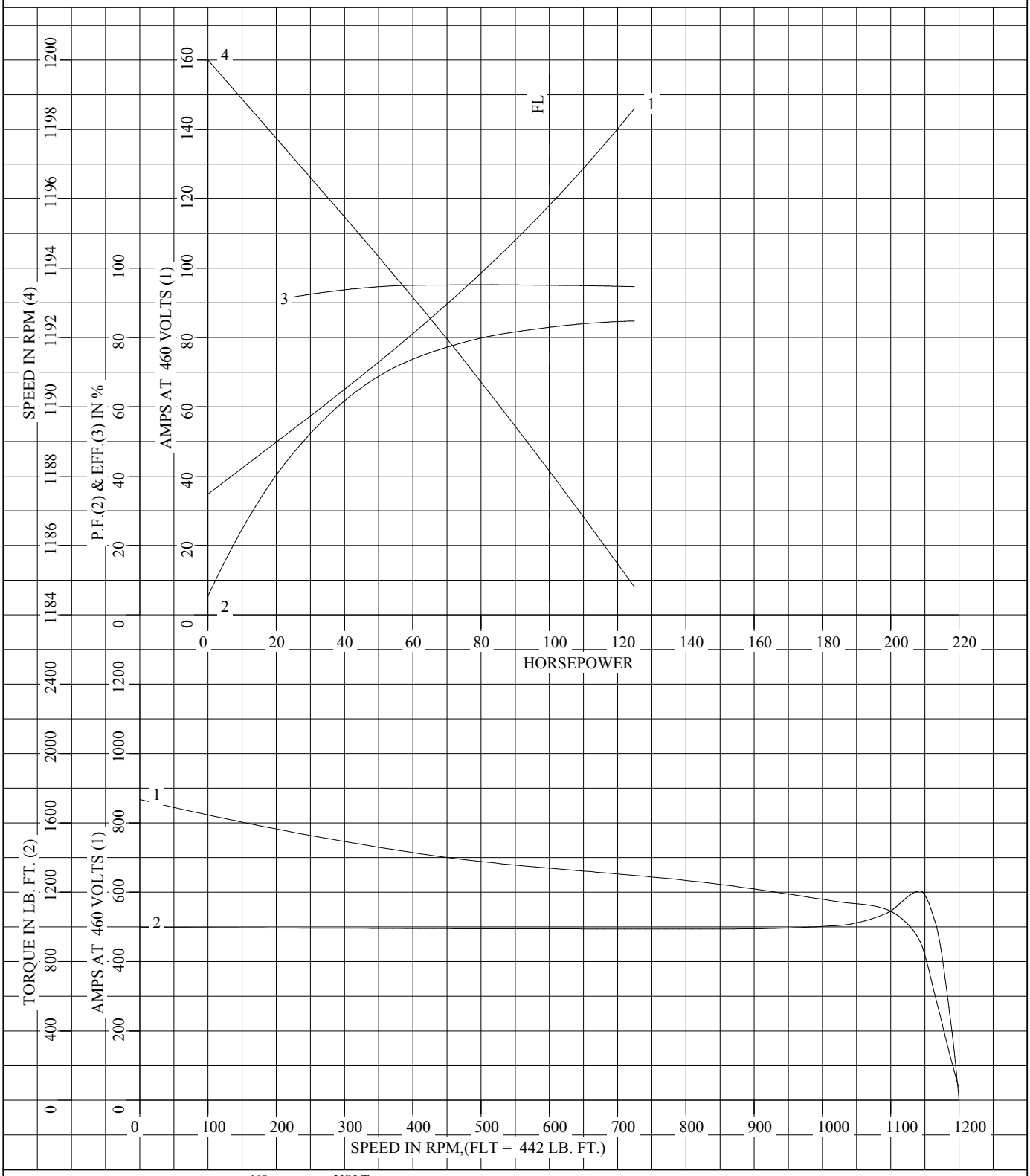
DR. BY W. L. SMITH
CK. BY J.J.HARRISON
APP. BY W. L. SMITH
DATE 06/29/10

A-C MOTOR PERFORMANCE DATA

A44WG1491-R001
ISSUE DATE 12/18/10

Printed on 12/18/10 6:00 @ psecs-motorer

FRAME 444T	RPM 1190	S.F. 1.15	ROTOR 418143098RE
HP 100	VOLTS 460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
TYPE P	AMPS 119	CODE LETTER H	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃ .0434
	AMB ℃/INSUL 40/F	E/S 497773	OHMS (BETWEEN LINES)



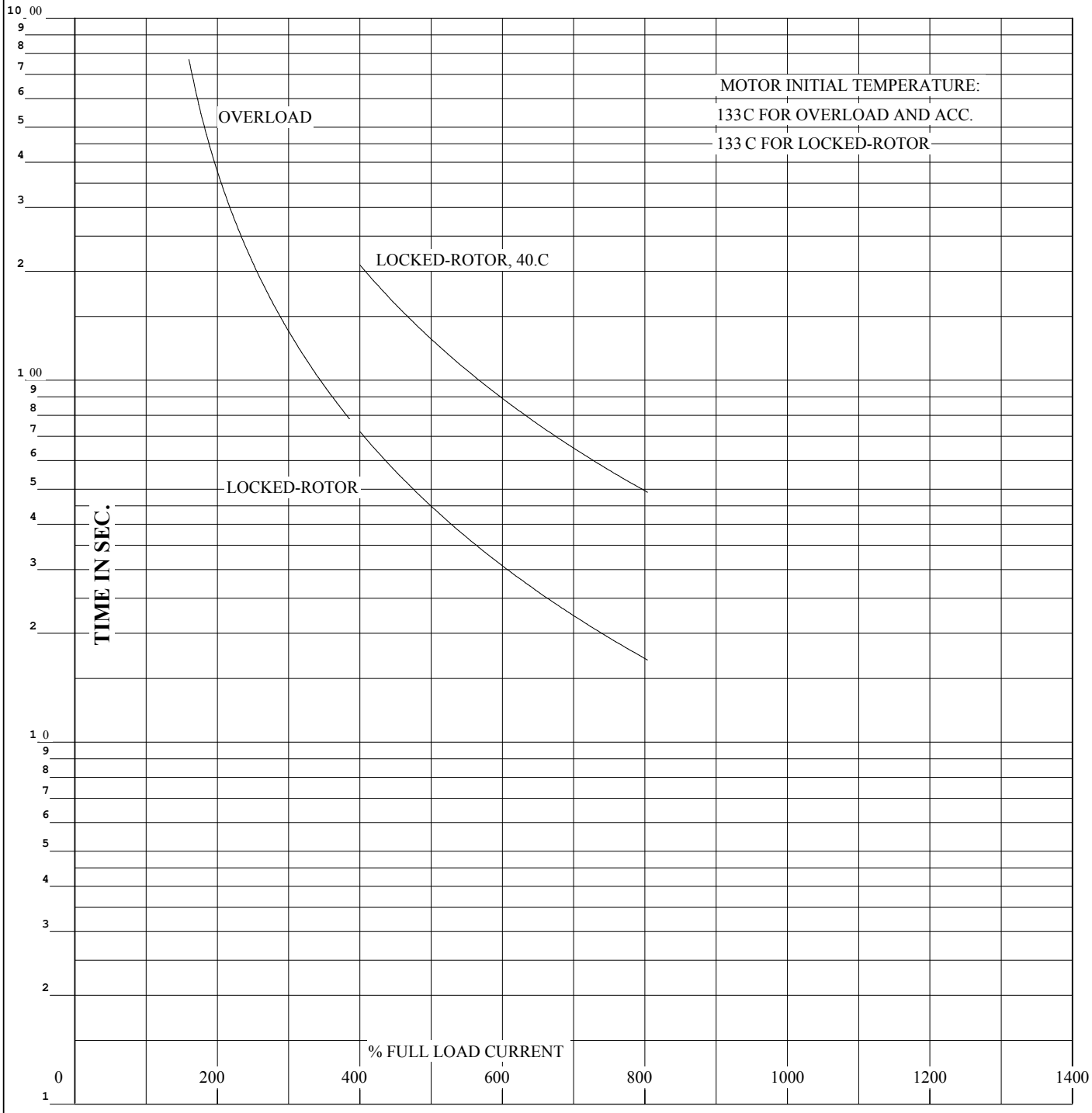
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY	W. L. SMITH
CK. BY	J.J.HARRISON
APP. BY	W. L. SMITH
DATE	06/29/10

A–C MOTOR PERFORMANCE CURVES A44WG1491-R001 ISSUE DATE 12/18/10

REL. S.O.	RPM 1190	S.F. 1.15	ROTOR 418143098RE
FRAME 444T	VOLTS 460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
HP 100	AMPS 119	CODE LETTER H	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C.0434
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 497773	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

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 12/18/10

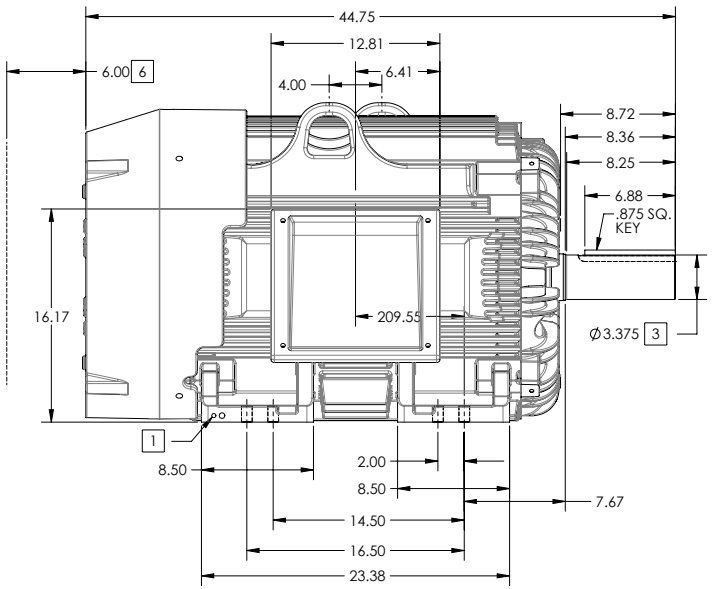
617427-001

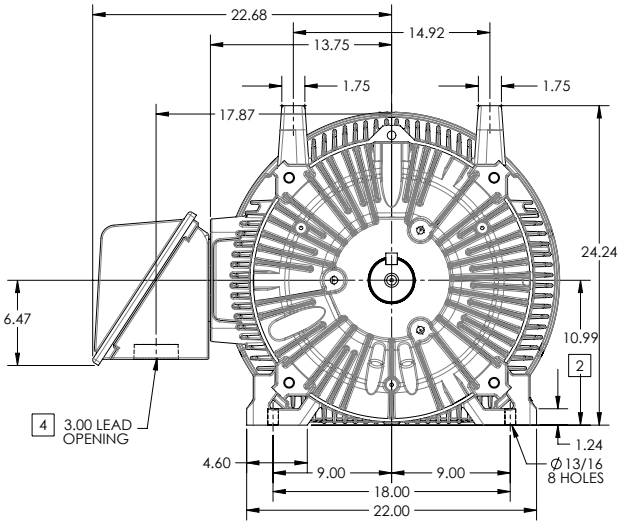
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED | FRAME G445T ABOVE NEMA RATINGS | COOLING: FAN COOLED

MOUNTING: FOOT | INCLUDES 444T 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 NOT 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): 2130

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

617427-001

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION			
REV: E	VERSION: 05	REVISED: 09:22:56 06/12/2014	TDR: 000000857938
MODEL NO. 617427-001			REF:
BY: RAGRA	Material:		C

BALDOR

G445T/444T STD – FOOTED – SIDE/CENTER C/B

617427-001

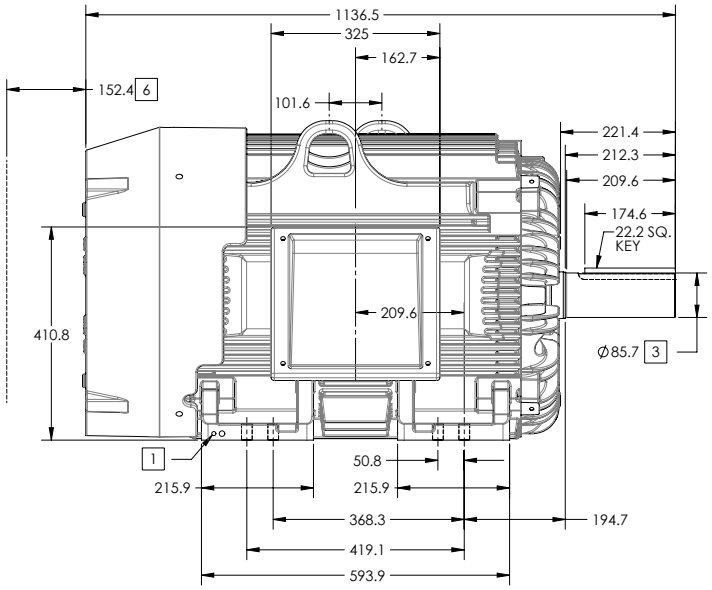
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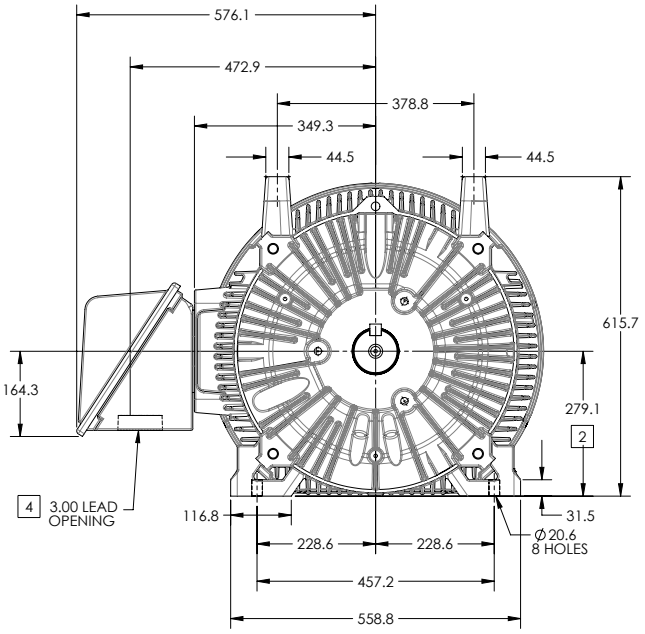
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED | FRAME G445T ABOVE NEMA RATINGS | COOLING: FAN COOLED

MOUNTING: FOOT | INCLUDES 444T FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.0,-1.5
3. VARIES +.00,-.03
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 NOT 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): 970

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

617427-001

REV. DESC: SHEET 2 NEEDS METRIC FOOT HOLE DIMENSION			
REV: E	VERSION: 05	REVISED: 09:22:56 06/12/2014	TDR: 000000857938
MODEL NO. 617427-001			REF:
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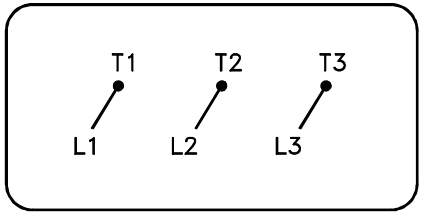
BALDOR

G445T/444T STD – FOOTED – SIDE/CENTER C/B

617427-001

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