ABB BALDOR RELIANCE

Customer information packet

ECR91006TR-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	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	6-60
Current @ Voltage	119.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	Severe Duty Features
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
Max Speed	3000 rpm
Motor Lead Quantity/Wire Size	3 @ 1 AWG

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1491
Layout	617427-315
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#1
Proprietary	False
Created date	01-30-2015

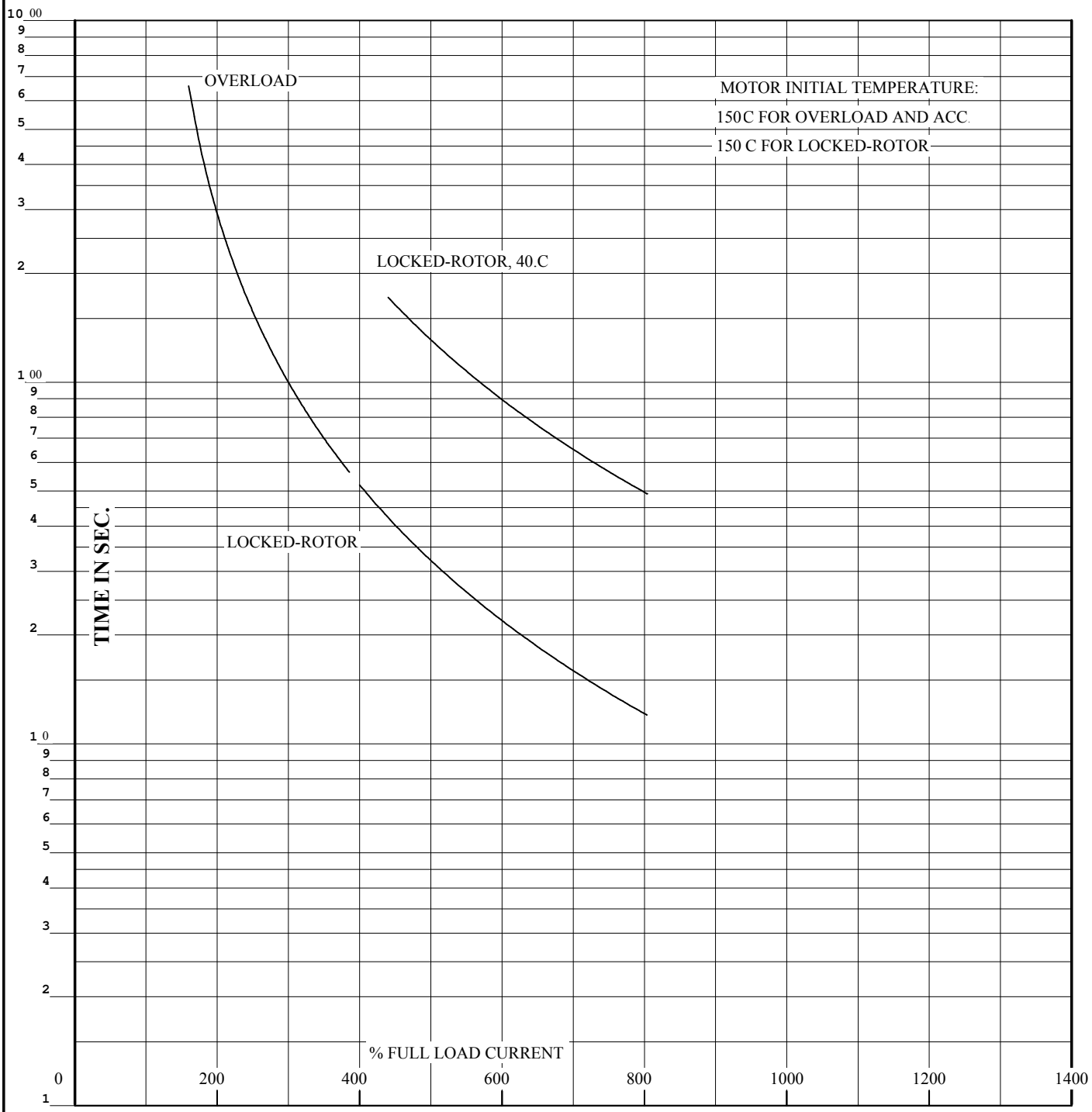
Motor Standards	NEMA
Motor Type	A44084M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.75 IN
Power Factor	83
Product Family	Crusher / Chipper
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.25
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft 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	ECR91006TR-4			**SPEC NO.**	P44G1805							
HP	100	**AMPS**	119	**VOLTS**	460			**DESIGN**	A			
RPM	1190	**RPM MAX**	3000	**HZ**	60	**AMB**	40	**SF**	1.25			
D.E. BRG.DATA	NU222			**O.D.E. BRG.DATA**	6318			**PH**	3	**DUTY**	CONT	**INSUL.CLASS** F
FRAME	444T	**I.P.**	55	**TYPE**	P	**ENCL**	TEFC	**CODE**	H			
POWER FACTOR	83			**3/4 LOAD EFF.**	95.0			**NEMA NOM EFFICIENCY**	95			
CHP HZ	60-90	**CT HZ**	6-60	**VT HZ**	6-60							
SER.NO.				**MOTOR WEIGHT**								
	1.25SF AMPS= 146											

NP2496L
MOBIL SHC -220 GREASE

REL. S.O.		RPM	1190	S.F.	1.25	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.

BALDOR A MEMBER OF THE ABB GROUP

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-R002

ISSUE DATE 12/18/10

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	1.25	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

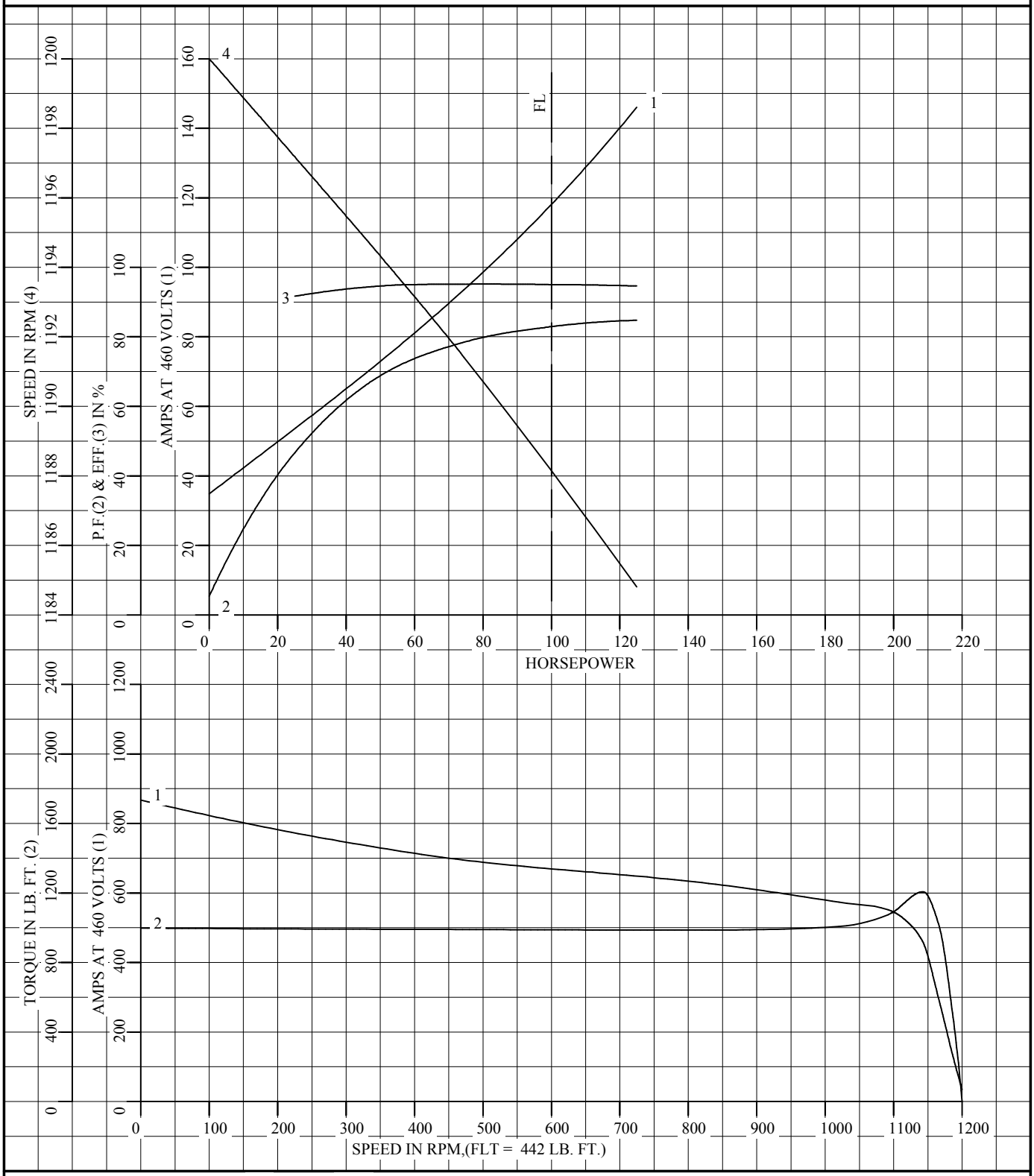
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A-C MOTOR PERFORMANCE DATA

A44WG1491-R002
ISSUE DATE 12/18/10

REL S.O.	RPM 1190	S.F. 1.25	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)



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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DATE	06/29/10

A-C MOTOR PERFORMANCE CURVES

A44WG1491-R002

ISSUE DATE 12/18/10

617427-315

DUTY MASTER ALTERNATING CURRENT MOTORS

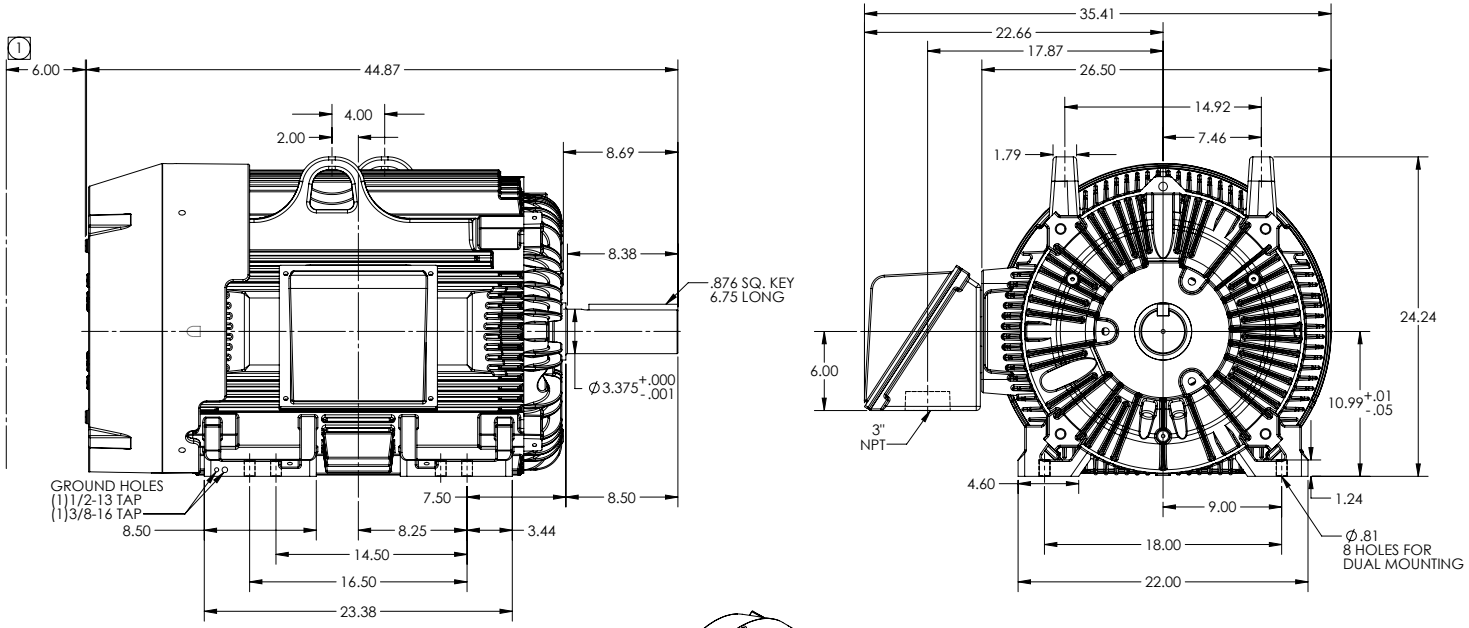
SQUIRREL-CAGE INDUCTION

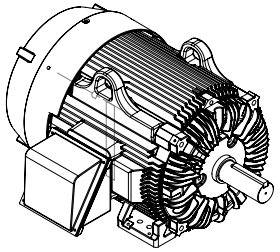
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT

COOLING: FAN COOLED

FRAMES G445T/444T





1 OBSTUCTION MUST NOT ENCROACH ON AIR INLET.

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.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED

DIMENSIONS ARE IN INCHES FOR MILLIMETERS SEE SHEET (2)

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

SHEET NUMBER 1 OF 2

617427-315

REV. DESC: NEW			
REV: -	VERSION: 00	REVISED: 09:06:36 12/05/2014	TDR: 000000881952
MODEL NO. 617427-315			
BY: RAGAJH			C

BALDOR

G445T/444T STD – FOOTED – SIDE/CENTER C.I. C/B ROLLER BRG

617427-315

617427-315

DUTY MASTER ALTERNATING CURRENT MOTORS

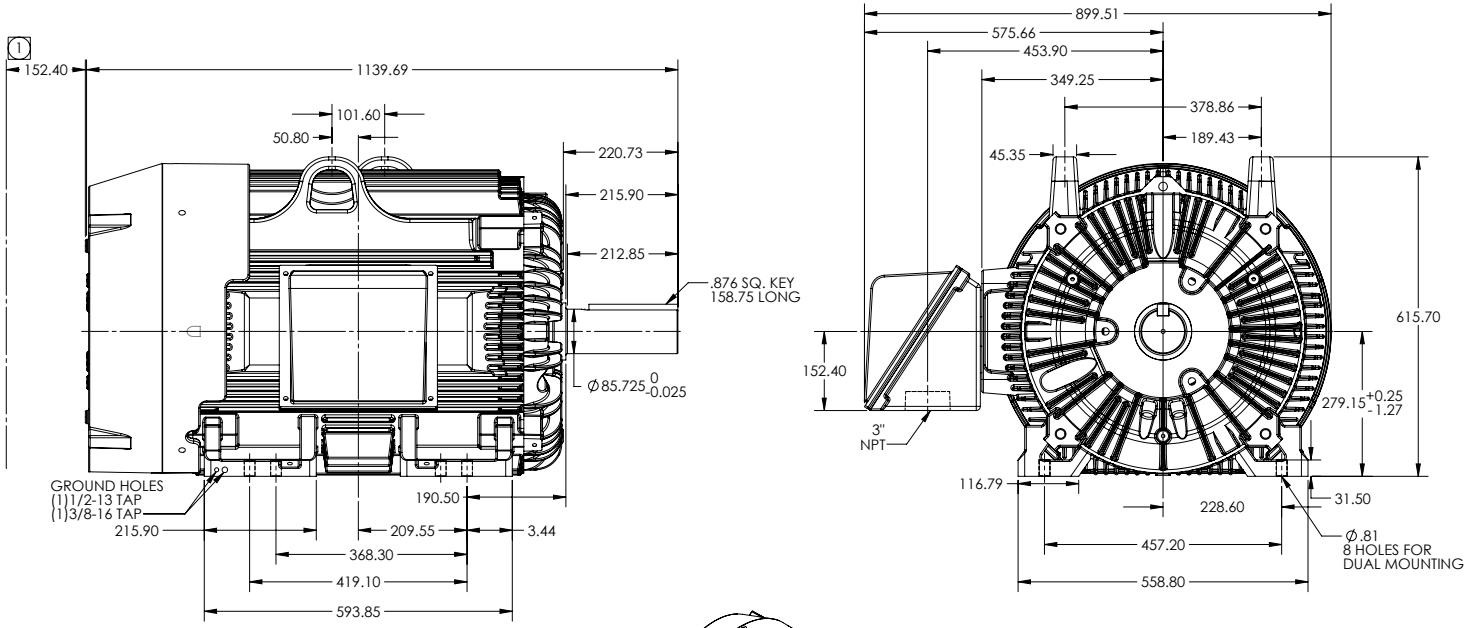
SQUIRREL-CAGE INDUCTION

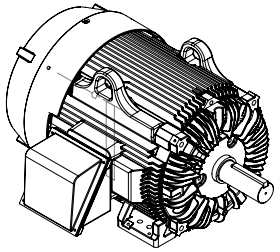
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT

COOLING: FAN COOLED

FRAMES G445T/444T





1 OBSTUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED

DIMENSIONS ARE IN MILLIMETERS FOR INCHES SEE SHEET 1

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

SHEET NUMBER 2 OF 2

617427-315

REV. DESC: NEW			
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MODEL NO. 617427-315			
BY: RAGAJH			C

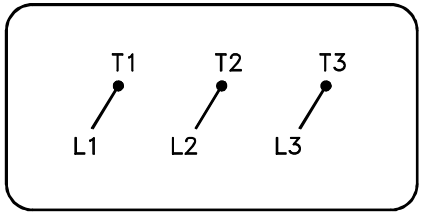
BALDOR

G445T/444T STD – FOOTED – SIDE/CENTER C.I. C/B ROLLER BRG

617427-315

416820–036

A–C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575–BA)

416820–036

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FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1