ABB BALDOR RELIANCE

Customer information packet

ECR91008TR-4

100HP, 890RPM, 3PH, 60HZ, 445T, TEFC, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/16/2026 11:46:37 AM

Specifications

Enclosure	TEFC
Frame	445T
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	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	15-60
Current @ Voltage	133.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	133.0 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 @ 1/0 AWG
Motor Standards	NEMA

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5226
Layout	617427-315
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	08
Leads	3#1/0
Proprietary	False
Created date	05-07-2015

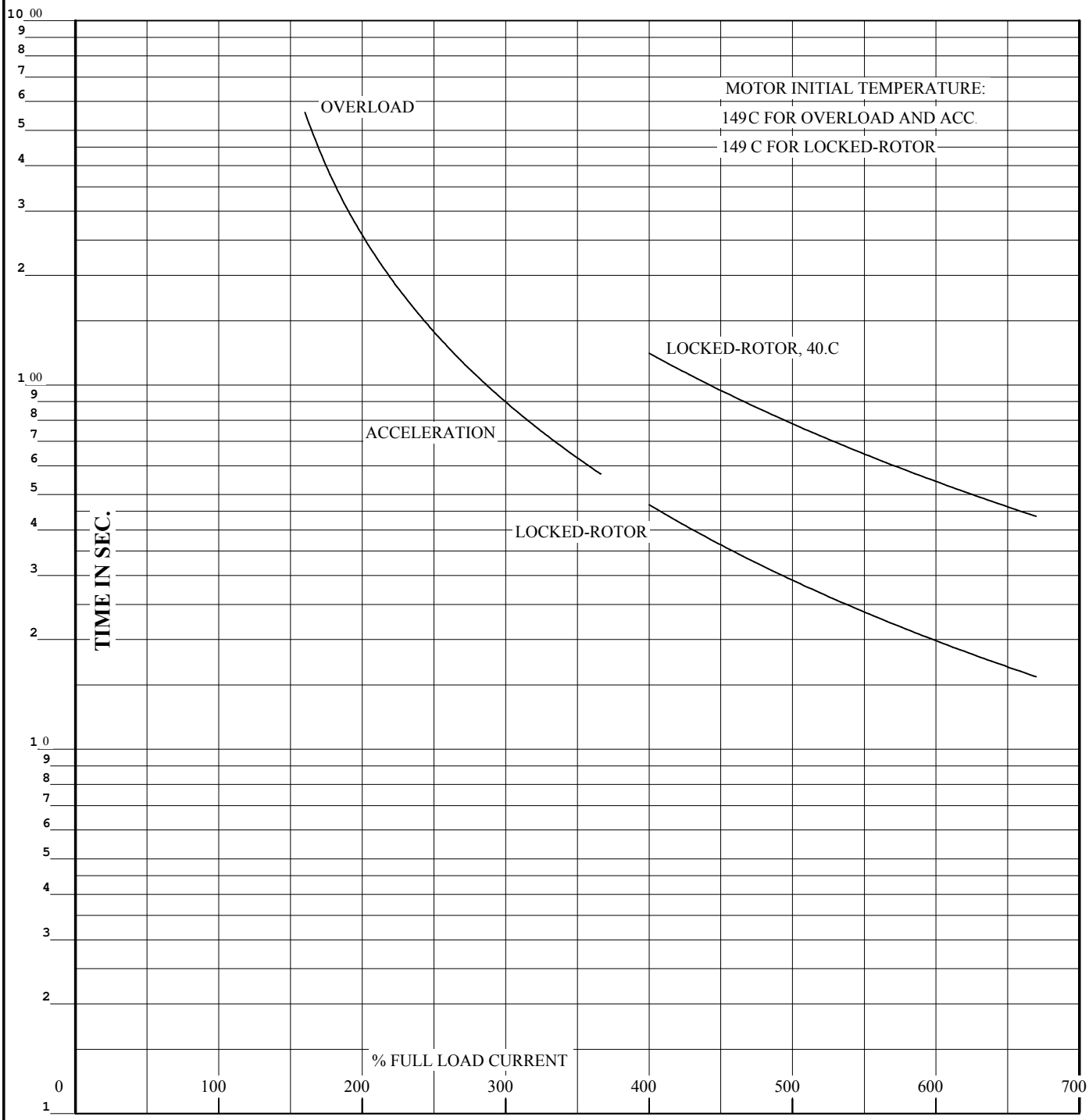
Motor Type	A4490M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	44.75 IN
Power Factor	75
Product Family	Crusher / Chipper
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.25
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007PV												
CAT NO	ECR91008TR-4		**SPEC NO.**	P44G1825								
HP	100	**AMPS**	133		**VOLTS**	460		**DESIGN**	A			
RPM	890	**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	445T	**I.P.**	55	**TYPE**	P	**ENCL**	TEFC	**CODE**	H			
POWER FACTOR	75			**3/4 LOAD EFF.**	93.7			**NEMA NOM EFFICIENCY**	93.6			
	SFA 164											
CHP HZ	60-90	**CT HZ**	15-60	**VT HZ**	6-60							
SER.NO.				**MOTOR WEIGHT**	2150							
	1.25 SF AMPS =164											

NP2496L
MOBIL SHC -220 GREASE

REL. S.O.		RPM	890	S.F.	1.25	ROTOR	4181430103BE
FRAME	445T	VOLTS	460	NEMA DESIGN	A	TEST S.O.	CALCULATED DATA
HP	100	AMPS	133	CODE LETTER	H	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.0395
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	-		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR - NEMA NOM EFF 93.6 PCT.

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	07/15/2015

A-C MOTOR PERFORMANCE CURVES

A44WG5226-R001

ISSUE DATE 07/15/2015

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	100	P	3/60	890	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
133	CONT	40/F	1.25	A	H	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
-	4181430103BE	---	---	.0395

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	63.5	900	4.82	0
1/4	25.0	72.1	897	37.0	87.8
2/4	50.1	87.9	895	57.6	92.5
3/4	74.9	109	892	68.8	93.7
4/4	100	133	889	75.0	93.8
5/4	125	159	886	78.6	93.6

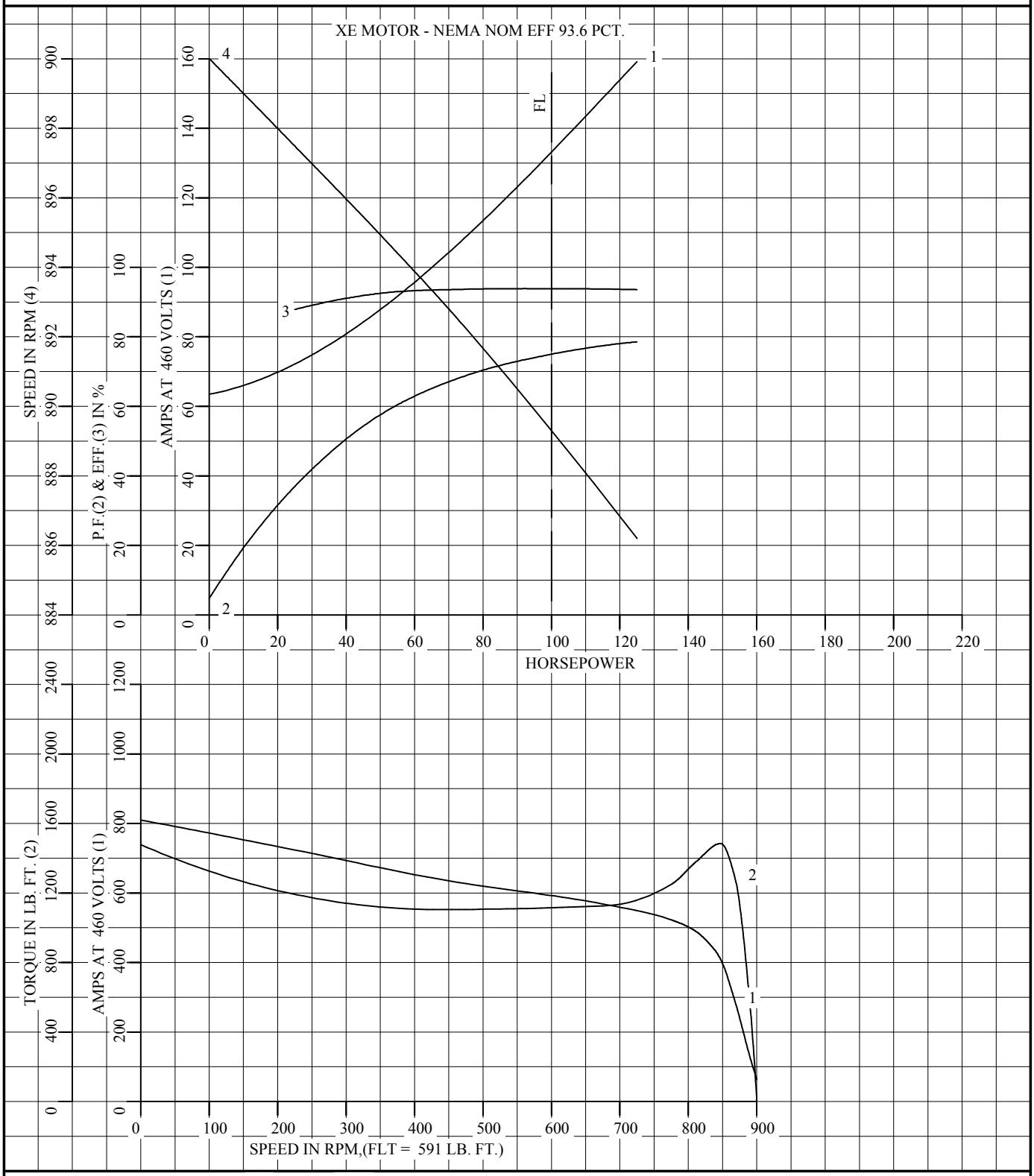
SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	250	1478	810
PULL UP	435	187	1105	640
BREAKDOWN	847	251	1485	408
FULL LOAD	889	100	591	133

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

REMARKS: CALCULATED DATA
XE MOTOR - NEMA NOM EFF 93.6 PCT.

REL S.O.	RPM 890	S.F. 1.25	ROTOR 4181430103BE
FRAME 445T	VOLTS 460	NEMA DESIGN A	TEST S.O. CALCULATED DATA
HP 100	AMPS 133	CODE LETTER H	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0395
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	07/15/2015

A-C MOTOR PERFORMANCE CURVES

A44WG5226-R001

ISSUE DATE 07/15/2015

617427-315

DUTY MASTER ALTERNATING CURRENT MOTORS

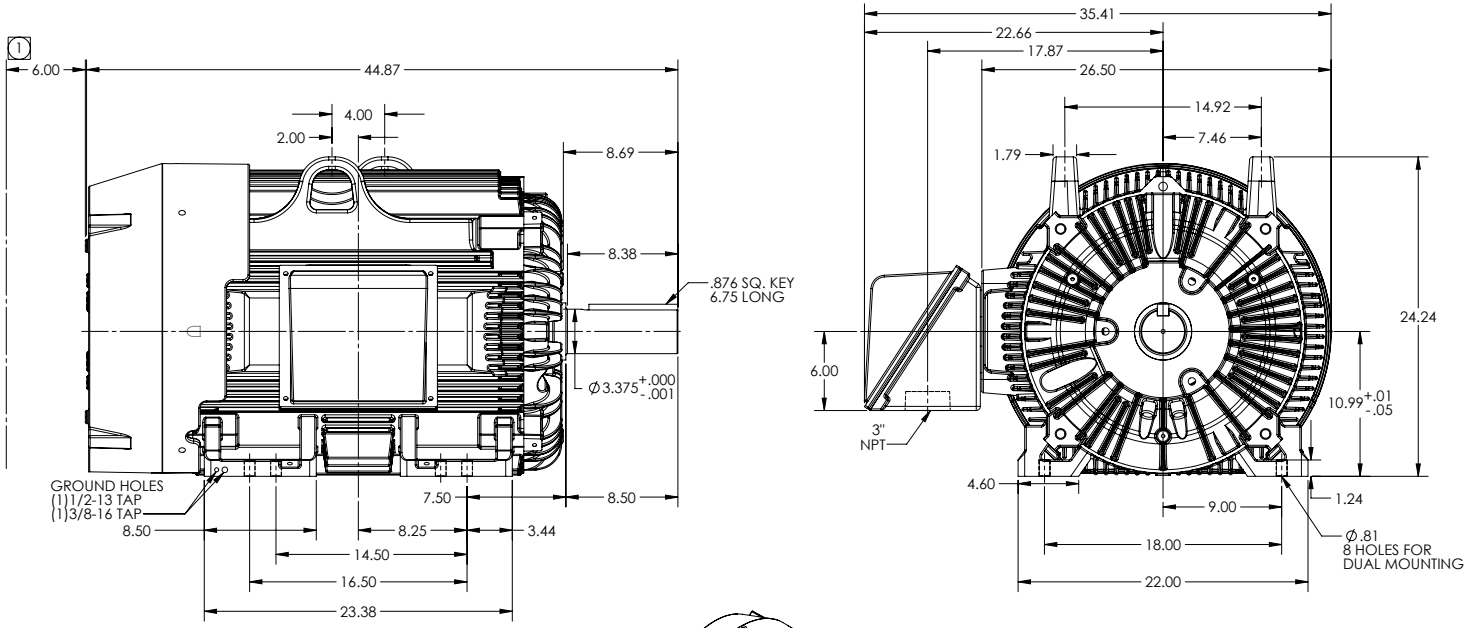
SQUIRREL-CAGE INDUCTION

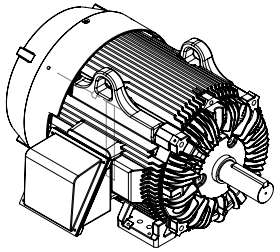
ENCLOSURE: TOTALLY ENCLOSED

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

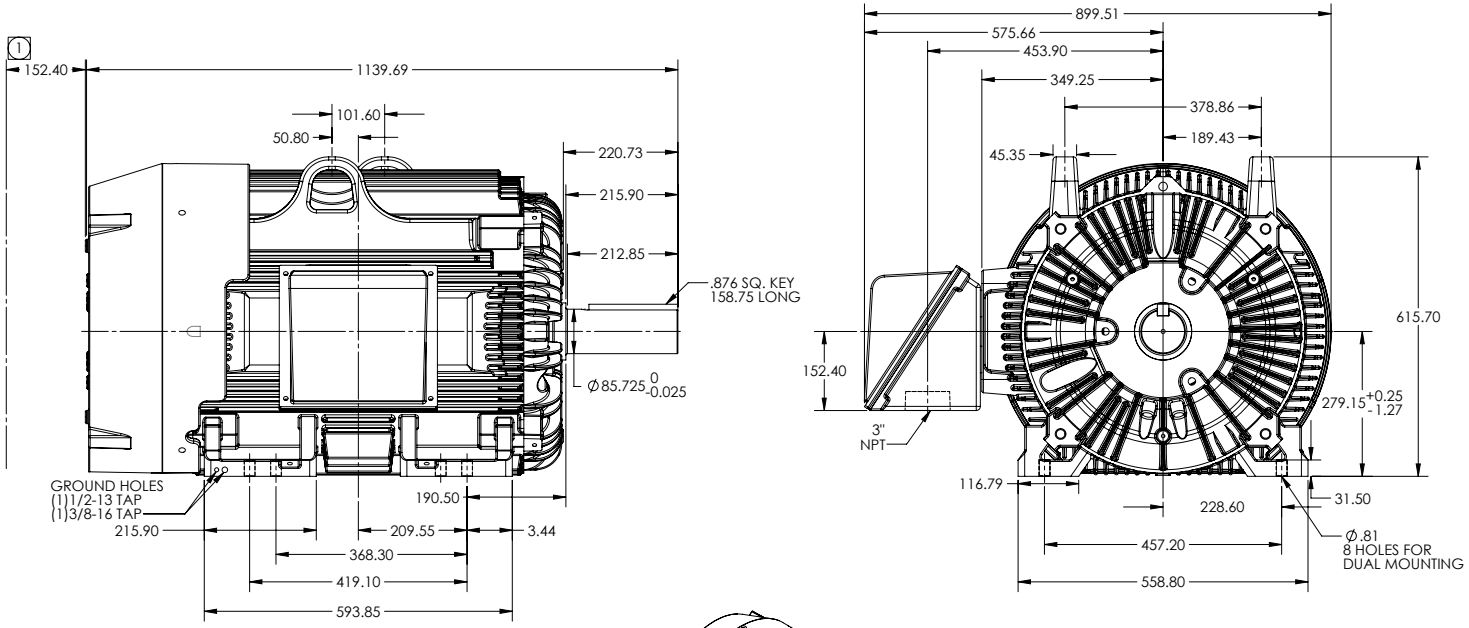
SQUIRREL-CAGE INDUCTION

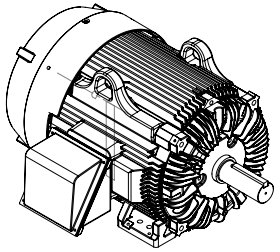
ENCLOSURE: TOTALLY ENCLOSED

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

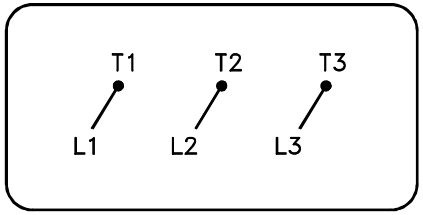
BALDOR

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

617427-315

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