ABB BALDOR RELIANCE

Customer information packet

ECR91504TR-4

150HP, 1785RPM, 3PH, 60HZ, 445T, A4488M, TEFC
Class - None
Division - Not Applicable

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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	150.000 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	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	10-60
Current @ Voltage	168.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	168.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	No Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	6 @ 2 AWG

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5113
Layout	617427-315
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#2 (02 per group)
Proprietary	False
Created date	02-06-2015

Motor Standards	NEMA
Motor Type	A4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	87
Product Family	Crusher / Chipper
Pulley End Bearing Type	Roller
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	None

Nameplate

000613007PV											
CAT NO	ECR91504TR-4		**SPEC NO.**	P44G1810							
HP	150	**AMPS**	168		**VOLTS**	460		**DESIGN**	A		
RPM	1785	**RPM MAX**	3600	**HZ**	60	**AMB**	40	**SF**	1.15		
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	87			**3/4 LOAD EFF.**	95.9			**NEMA NOM EFFICIENCY**	95.8		
	SFA 192										
CHP HZ	60-90	**CT HZ**	10-60	**VT HZ**	6-60						
SER.NO.				**MOTOR WEIGHT**							

NP2496L
MOBIL SHC -220 GREASE

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	150	P	3/60	1785	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
---	418143052XE	---	---	.0277

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	46.9	1800	4.92	0
1/4	37.5	61.9	1797	60.9	93.2
2/4	75.1	91.5	1793	80.5	95.6
3/4	112	128	1790	85.9	95.9
4/4	150	168	1786	87.5	95.8
5/4	187	209	1782	88.1	95.4

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	230	1015	1268
PULL UP	1450	197	869	1266
BREAKDOWN	1734	261	1152	588
FULL LOAD	1786	100	441	168

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. 95.8 PCT.

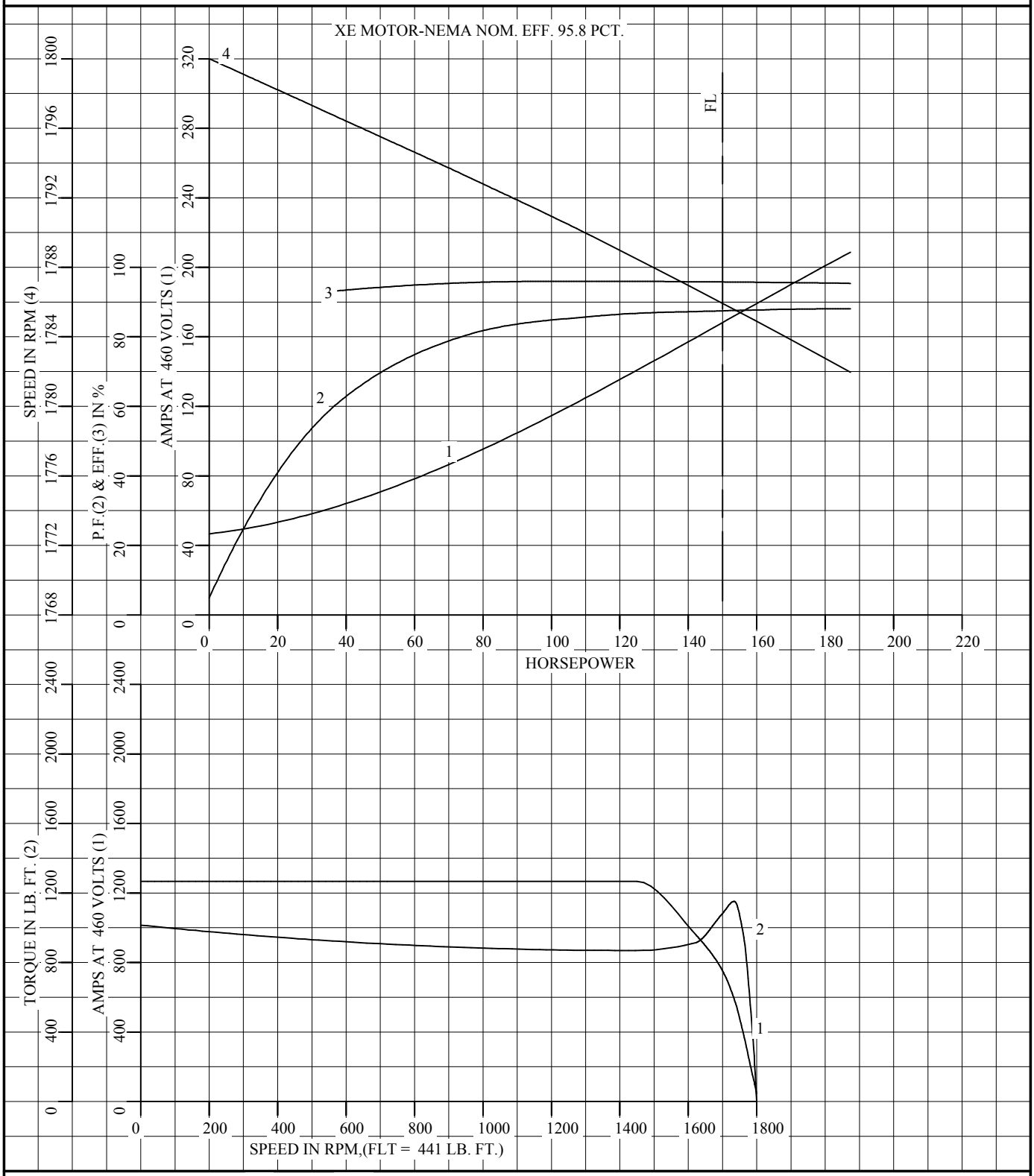
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY CD
CK. BY T. KELATI
APP. BY T.KELATI
DATE 02/05/2015

A-C MOTOR PERFORMANCE DATA

A44WG5113-R001
ISSUE DATE 02/05/20

REL S.O.		RPM	1785	S.F.	1.15	ROTOR	418143052XE
FRAME	445T	VOLTS	460	NEMA DESIGN	A	TEST S.O.	CALCULATED DATA
HP	150	AMPS	168	CODE LETTER	H	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.0277
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	02/05/2015

A-C MOTOR PERFORMANCE CURVES

A44WG5113-R001

ISSUE DATE 02/05/2015

617427-315

DUTY MASTER ALTERNATING CURRENT MOTORS

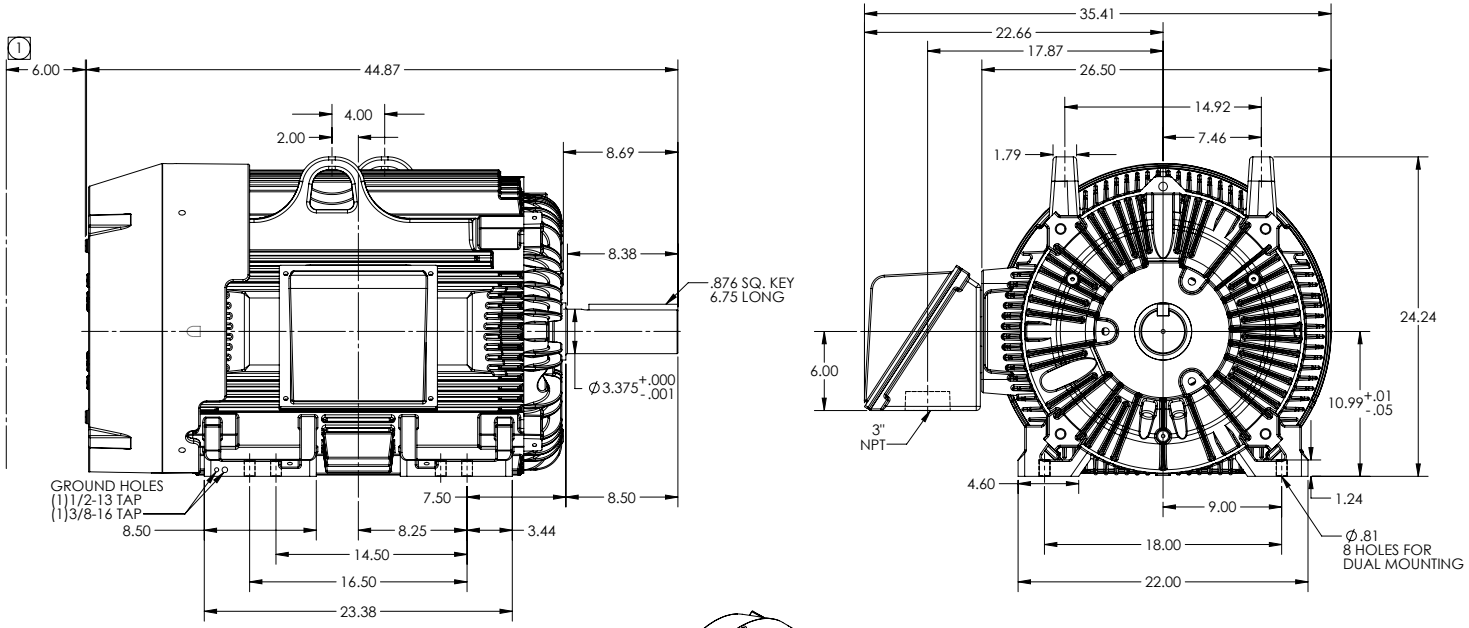
SQUIRREL-CAGE INDUCTION

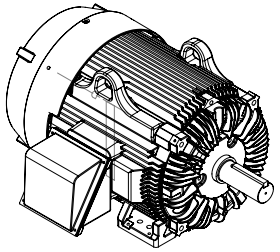
ENCLOSURE: TOTALLY ENCLOSED

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

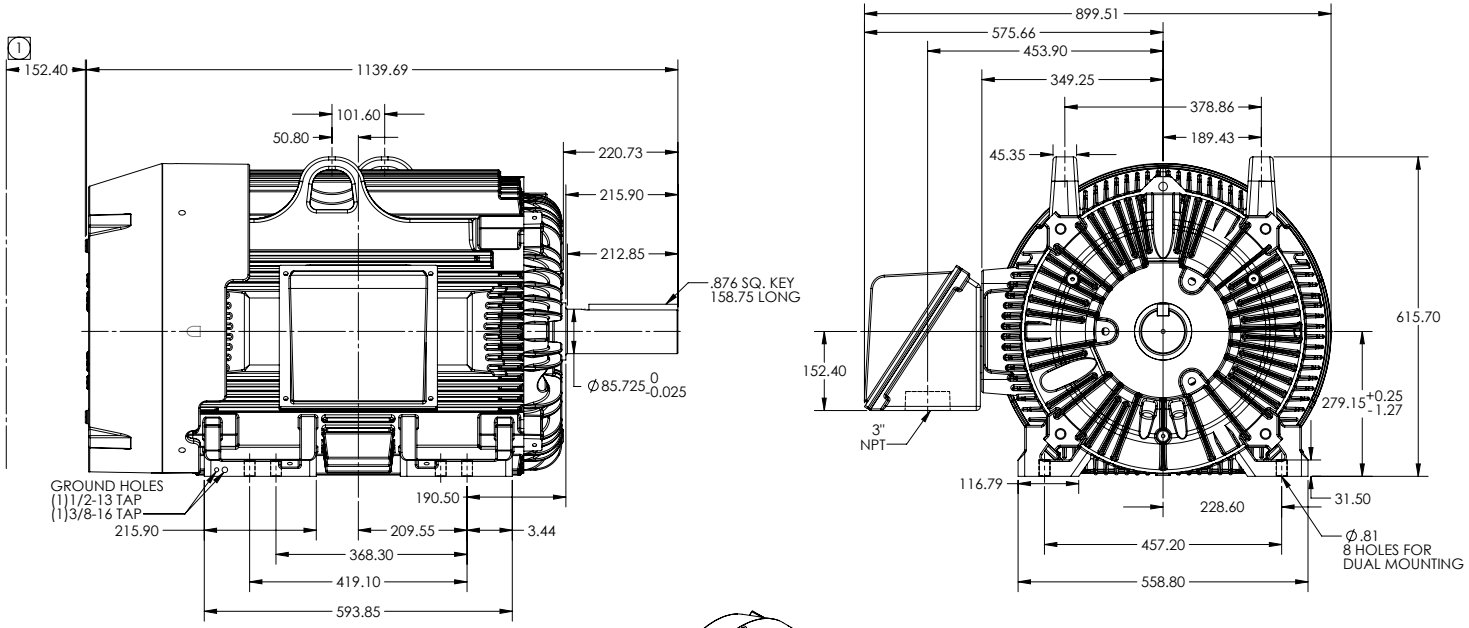
SQUIRREL-CAGE INDUCTION

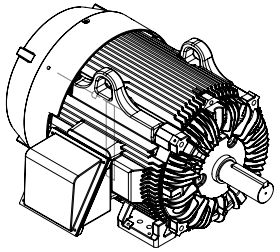
ENCLOSURE: TOTALLY ENCLOSED

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

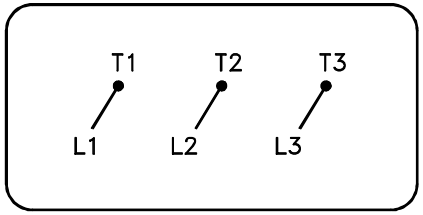
BALDOR

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