

ABB BALDOR RELIANCE III

Customer information packet

ECR91504TR-4

150HP, 1785RPM, 3PH, 60HZ, 445T, A4488M, TEFC

Class - None

Division - Not Applicable

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.						
		DR. BY CD		A-C MOTOR PERFORMANCE DATA A44WG5113-R001 ISSUE DATE 02/05/20		
		CK. BY T. KELATI				
		APP. BY T. KELATI				
		DATE 02/05/2015				
		Page 6 of 1				

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**

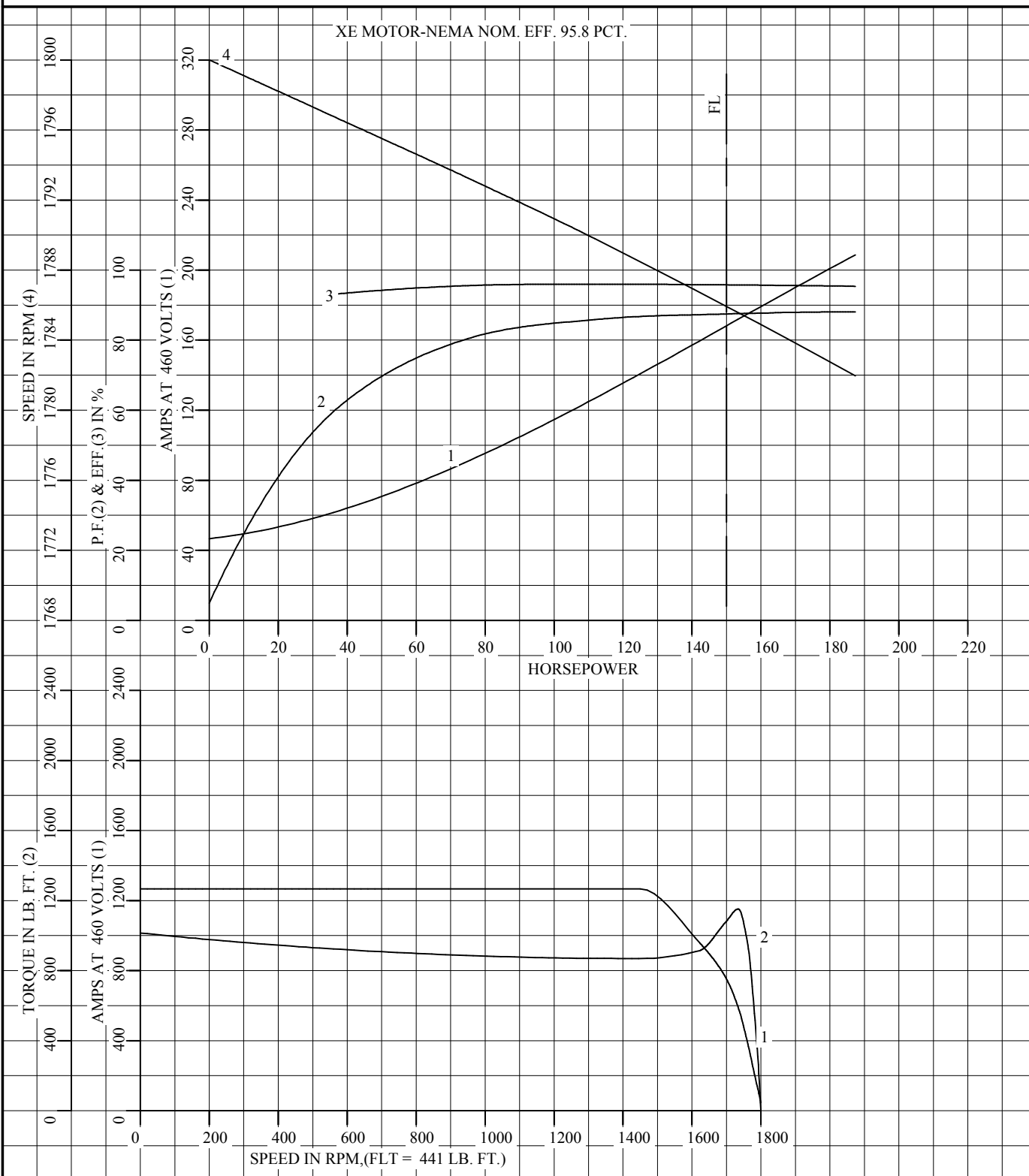
 STATOR RES. @ 25 °C **.0277**

 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

DUTY MASTER ALTERNATING CURRENT MOTORS SQUIRREL-CAGE INDUCTION

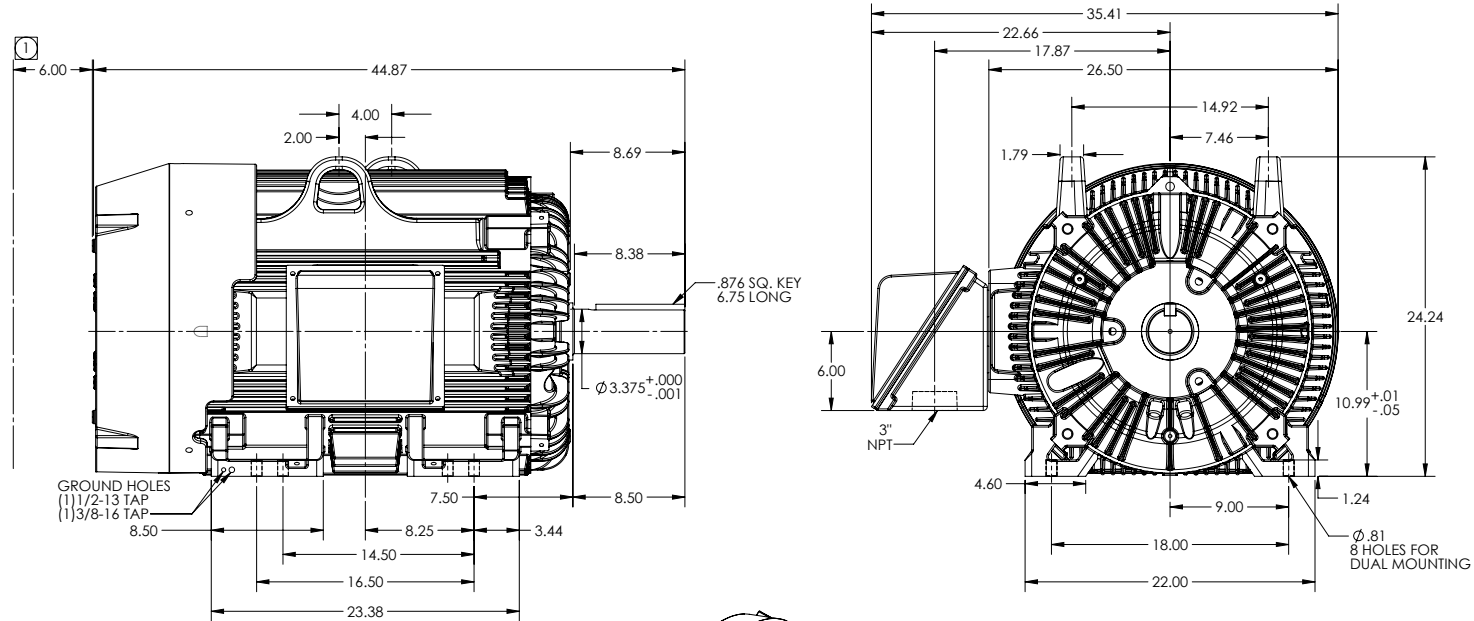
617427-315

ENCLOSURE: TOTALLY ENCLOSED

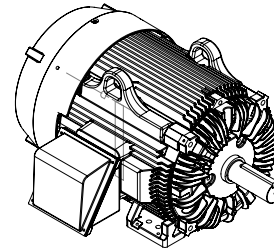
MOUNTING: FOOT

COOLING: FAN COOLED

FRAMES G445T/444T



① OBSTRUCTION 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
51E-27-119

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

BALDOR

G445T/444T STD - FOOTED - SIDE/CENTER C.1 C/B ROLLER BRG

617427-315

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

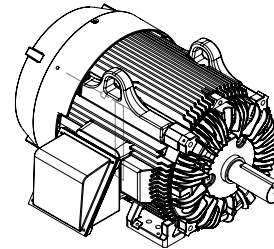
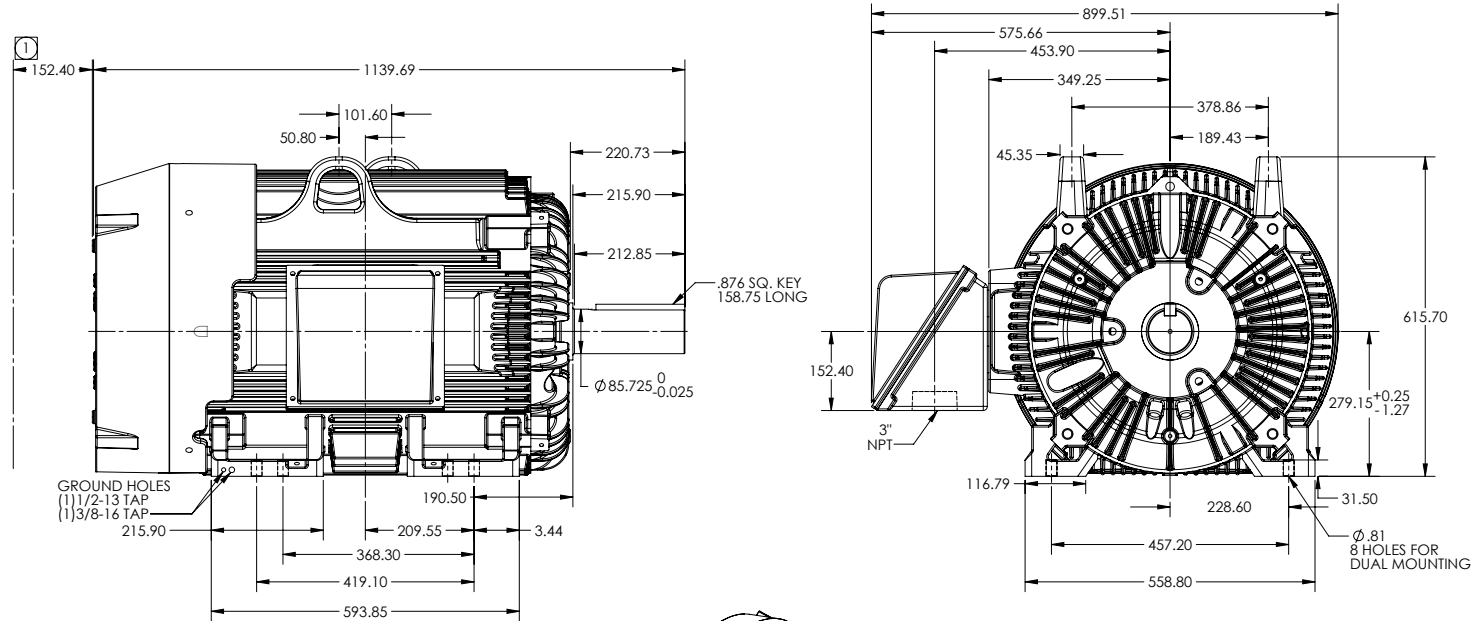
617427-315

ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT

FRAMES G445T/444T

COOLING: FAN COOLED



① OBSTRUCTION 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

51E-27-119

REV. DESC: NEW
REV: - VERSION: 00
MODEL NO. 617427-315
BY: RAGAHJ

REVISED: 09/06/36 12/05/2014

TDR: 000000881952

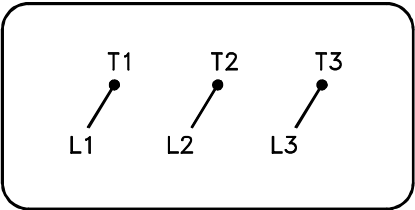
BALDOR

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		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682	REVISED: 11: 54: 06 04/30/2010	
MTL: -	BY: RAGRA	

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1