



Customer information packet

ECR91008TR-4

100HP, 890RPM, 3PH, 60HZ, 445T, TEFC, F1

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	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.
HP		100	AMPS	133	CODE LETTER	H	TEST DATE
TYPE		P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES. @ 25 °C
PHASE/HERTZ		3/60	AMB °C/INSUL	40/°F	E/S	-	OHMS (BETWEEN LINES)

1.00

0.9

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

0

1

100

200

300

400

500

600

700

TIME IN SEC.

OVERLOAD

ACCELERATION

LOCKED-ROTOR

LOCKED-ROTOR, 40 °C

MOTOR INITIAL TEMPERATURE:
149°C FOR OVERLOAD AND ACC.
149 °C FOR LOCKED-ROTOR

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

0

% FULL LOAD CURRENT

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.

DR. BY

CD

CR. BY

T. KELATI

APP. BY

T. KELATI

DATE

07/15/2015

A-C MOTOR

PERFORMANCE

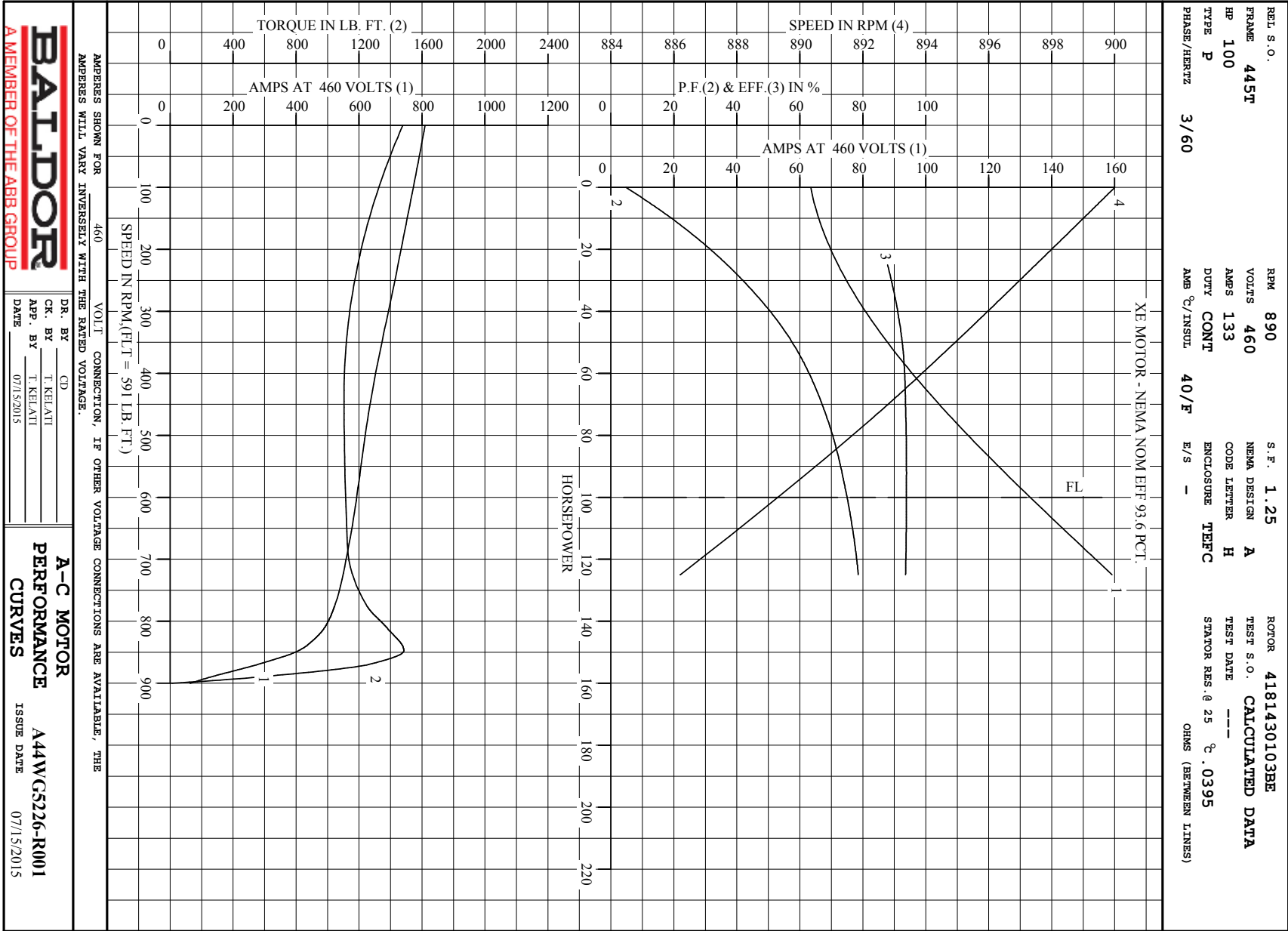
CURVES

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						
LOCKED ROTOR		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
	0		250	1478	810	
PULL UP			435	187	1105	
			435	187	1105	
BREAKDOWN			847	251	1485	
			847	251	1485	
FULL LOAD			889	100	591	
			889	100	591	
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.						
BALDOR A MEMBER OF THE ABB GROUP		DR. BY _____ CK. BY _____ APP. BY _____ DATE 07/15/2015		A-C MOTOR PERFORMANCE DATA A44WG5226-R001 ISSUE DATE 07/15/20		



Printed on 8/27/15 14:53 @ bengap01.baldor.com

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

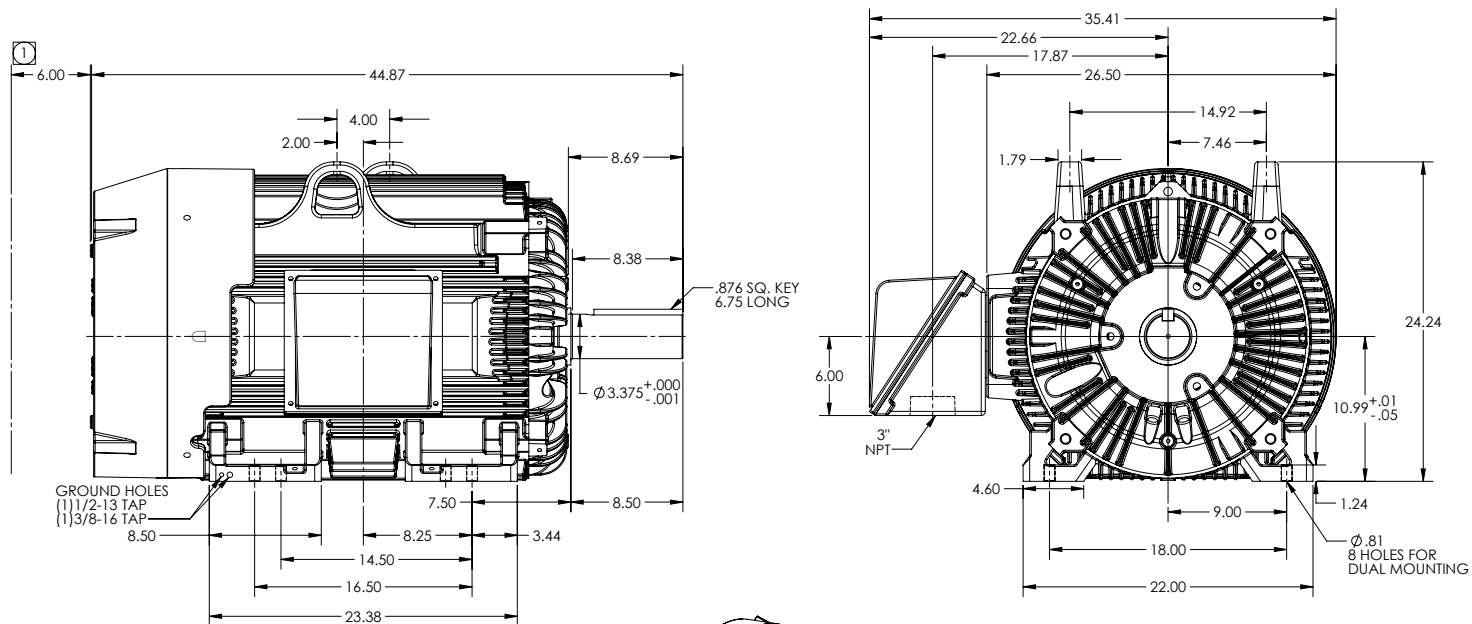
617427-315

ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT

FRAMES G445T/444T

COOLING: FAN COOLED

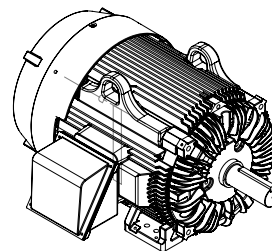


① OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .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-727-315

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

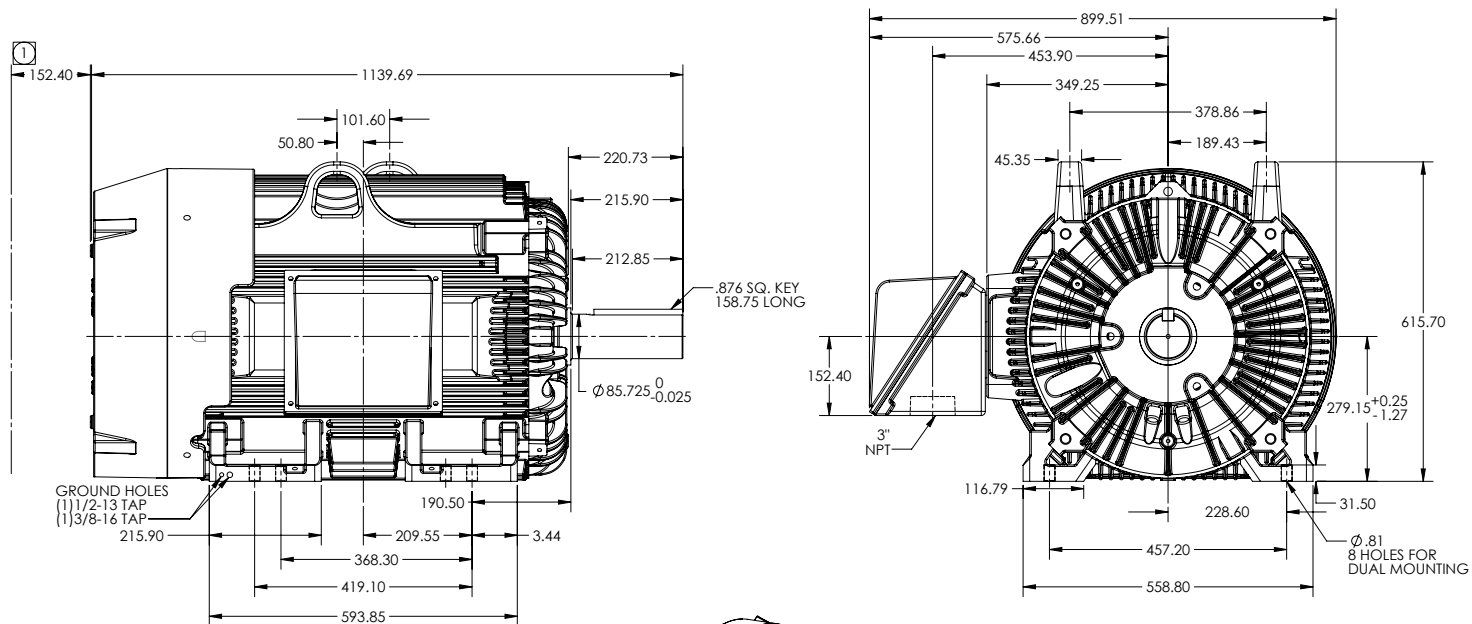
617427-315

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-27-315

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

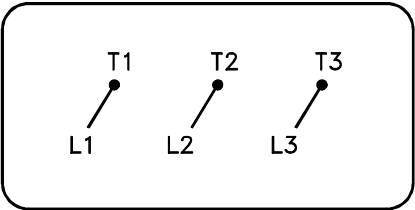
BALDOR

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 CONN DIAG - STANDARD 3 LEAD SH 1 of 1
REV. LTR: -	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010	
MTL: -		BY: RAGRA	