ABB BALDOR RELIANCE

Customer information packet

ECR91508TR-4

150HP, 890RPM, 3PH, 60HZ, 449T, A44160M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	449T
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	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	30-60
Current @ Voltage	203.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	203.0 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	6 @ 1 AWG
Motor Standards	Other

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5270
Layout	617427-091
Eff. date	04-20-2021
CD Diagram	416820-036
Poles	08
Leads	3#1 (02 per group)
Proprietary	False
Created date	05-07-2015

Motor Type	A44160M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	53.47 IN
Power Factor	73
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	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007PV												
CAT NO	ECR91508TR-4		**SPEC NO.**	P44G1827								
HP	150	**AMPS**	203	**VOLTS**	460		**DESIGN**	A				
RPM	890	**RPM MAX**	3000	**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	449T	**I.P.**	55	**TYPE**	P	**ENCL**	TEFC	**CODE**	H			
POWER FACTOR	73			**3/4 LOAD EFF.**	94.4			**NEMA NOM EFFICIENCY**		94.5		
CHP HZ	60-90	**CT HZ**	30-60	**VT HZ**	6-60							
SER.NO.				**MOTOR WEIGHT**	2648							

NP2496L
MOBIL SHC -220 GREASE

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	150	P	3/60	890	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
-	418143-091-BE	---	---	.0208

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	111	900	3.53	0
1/4	37.5	119	898	33.0	89.4
2/4	75.1	140	895	53.9	93.5
3/4	112	169	893	66.1	94.4
4/4	150	203	890	73.2	94.5
5/4	187	242	887	77.0	94.3

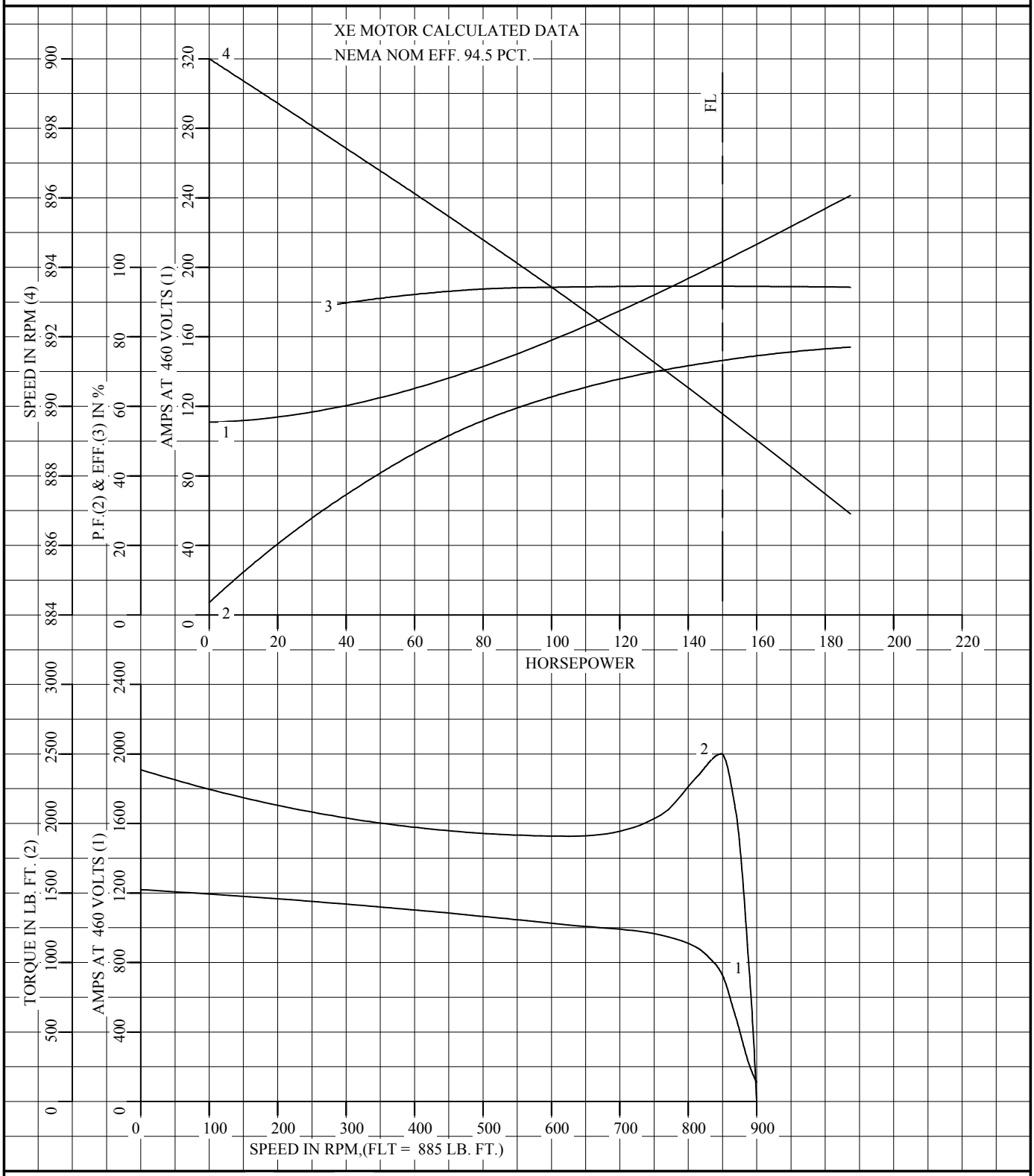
SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	270	2386	1219
PULL UP	630	216	1908	1014
BREAKDOWN	848	282	2501	739
FULL LOAD	890	100	885	203

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

REMARKS: XE MOTOR CALCULATED DATA
NEMA NOM EFF. 94.5 PCT.

REL S.O.	RPM 890	S.F. 1.15	ROTOR 418143-091-BE
FRAME 449T	VOLTS 460	NEMA DESIGN A	TEST S.O. ---
HP 150	AMPS 196	CODE LETTER H	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0208
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	08/26/15

A-C MOTOR PERFORMANCE CURVES

A44WG5270-R001

ISSUE DATE 08/26/15

617427-091

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

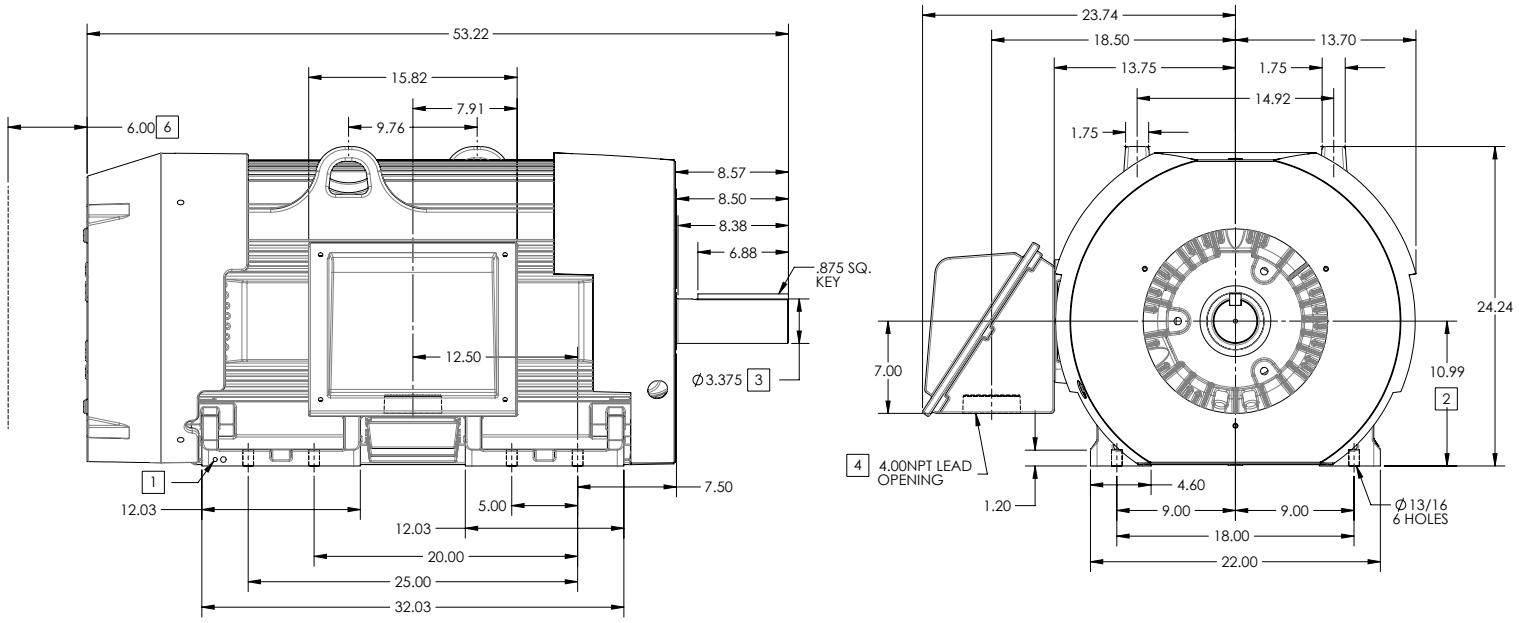
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 447T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.01,-.05
3. VARIES +.000,-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
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. TO 5 INCH DIA.

5 WEIGHT (LBS): 3080

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES

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

SHEET NUMBER 1 OF 2

617427-091

REV. DESC: ADD C DIMENSION			
REV: B	VERSION: 02	REVISED: 02:45:42 09/29/2015	TDR: 000000942902
MODEL NO. 617427-091			
BY: USBRCHA2			C

BALDOR

G449/447T SIDE MOUNT C-BOX,TEFC

617427-091

617427-091

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

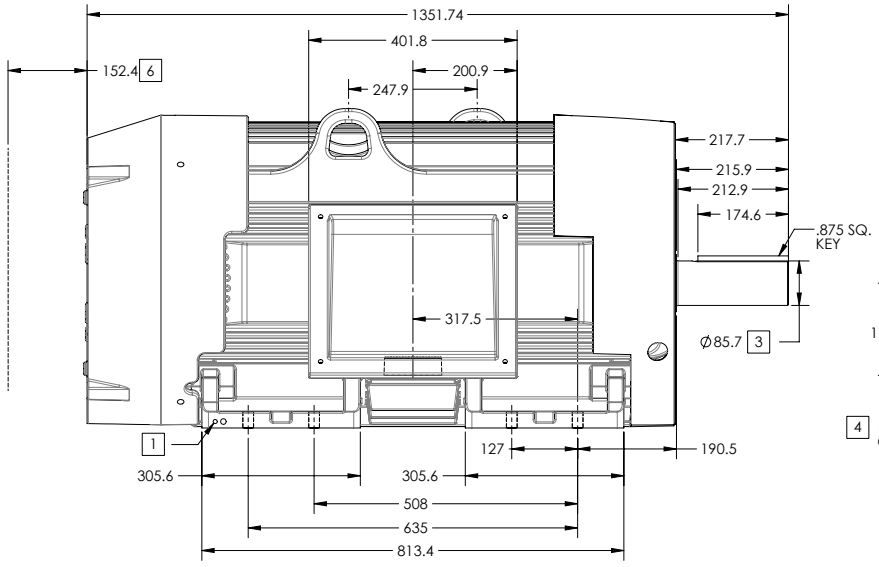
ENCLOSURE: TOTALLY ENCLOSED

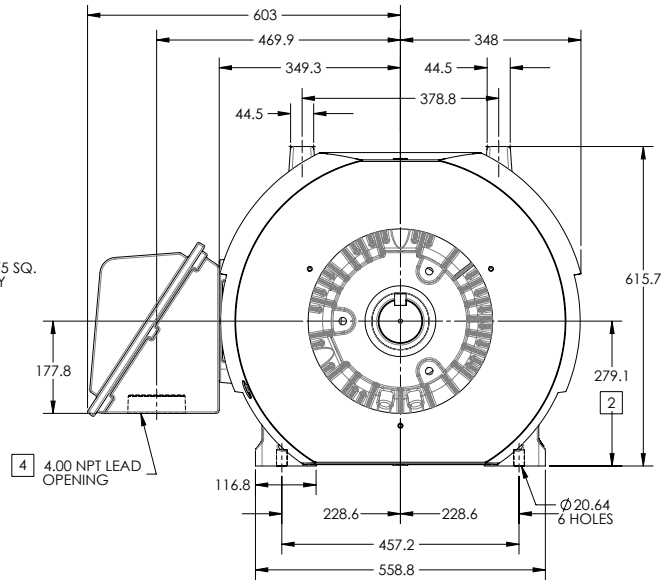
FRAME 449T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 447T FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-1.524
3. VARIES +.000,-.0254
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .0762 T.I.R. TO 127 MM DIA.

5 MASS (KGS): 1395

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS, SEE SHEET 1 FOR DIMENSIONS IN INCHES

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

SHEET NUMBER 2 OF 2

617427-091

REV. DESC: ADD C DIMENSION			
REV: B	VERSION: 02	REVISED: 02:45:42 09/29/2015	TDR: 000000942902
MODEL NO. 617427-091			
BY: USBRCHA2			C

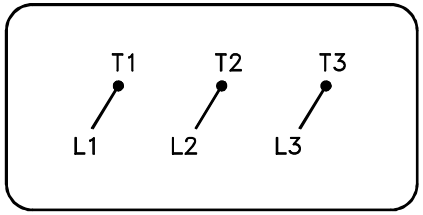
BALDOR

G449/447T SIDE MOUNT C-BOX,TEFC

617427-091

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