

ABB BALDOR RELIANCE III

Customer information packet

ECR92506TR-4

250HP, 1190RPM, 3PH, 60HZ, 449T, A44160M, TEFC

Class - None

Division - Not Applicable

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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	30-60
Current @ Voltage	283.000 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	283.0 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 @ 1/0 AWG
Motor Standards	Other

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5114
Layout	617427-091
Eff. date	04-08-2021
CD Diagram	416820-036
Poles	06
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	02-05-2015

Motor Type	A44160M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	53.24 IN
Power Factor	85
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	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

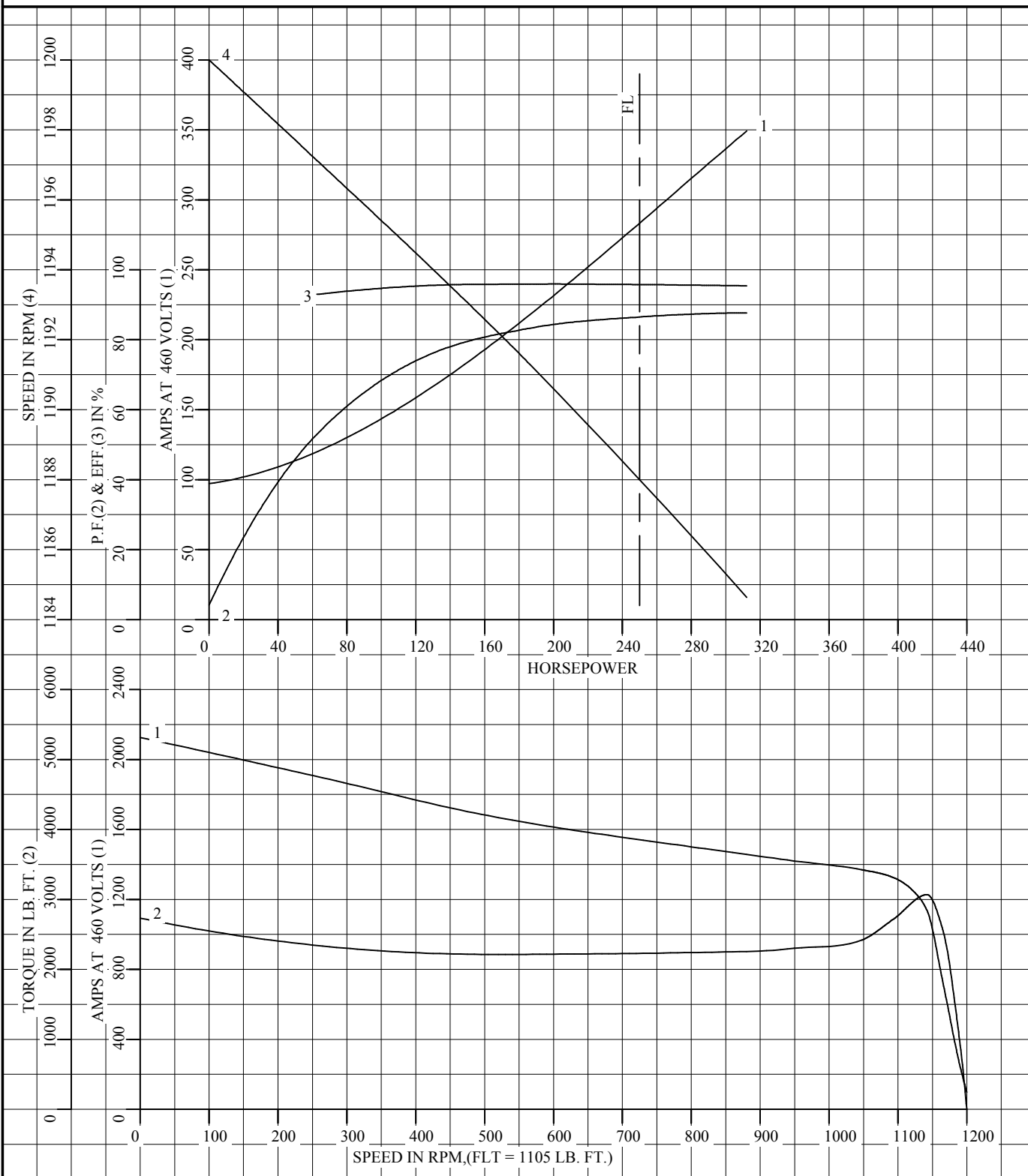
Nameplate

000613007PV															
CAT NO	ECR92506TR-4				SPEC NO.		P44G1817								
HP	250	AMPS	283			VOLTS		460			DESIGN	A			
RPM	1190	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	85	3/4 LOAD EFF.				95.9		NEMA NOM EFFICIENCY				95.8			
CHP HZ	60-90	CT HZ		30-60		VT HZ		6-60							
SER.NO.					MOTOR WEIGHT				3225						

NP2496L	
MOBIL SHC -220 GREASE	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	250	P	3/60	1188	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
283	CONT	40/F	1.15	A	H	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418143-98-PE	---	---	.0147		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	97.4	1200	4.16	0	
1/4	62.5	119	1197	52.9	93.0	
2/4	125	163	1194	75.1	95.4	
3/4	187	219	1191	83.4	95.9	
4/4	250	283	1188	86.5	95.8	
5/4	312	350	1185	87.7	95.4	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	247	2733	2126	
PULL UP		510	200	2214	1675	
BREAKDOWN		1142	278	3068	1135	
FULL LOAD		1188	100	1105	283	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA						
		DR. BY CD CK. BY T. KELATI APP. BY T. KELATI DATE 02/05/2015		A-C MOTOR PERFORMANCE DATA A44WG5114-R001 ISSUE DATE 02/05/20		

REL S.O.	RPM 1188	S.F. 1.15	ROTOR 418143-98-PE
FRAME 449T	VOLTS 460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
HP 250	AMPS 283	CODE LETTER H	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0147
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**
A44WG5114-R001
ISSUE DATE 02/05/2015

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

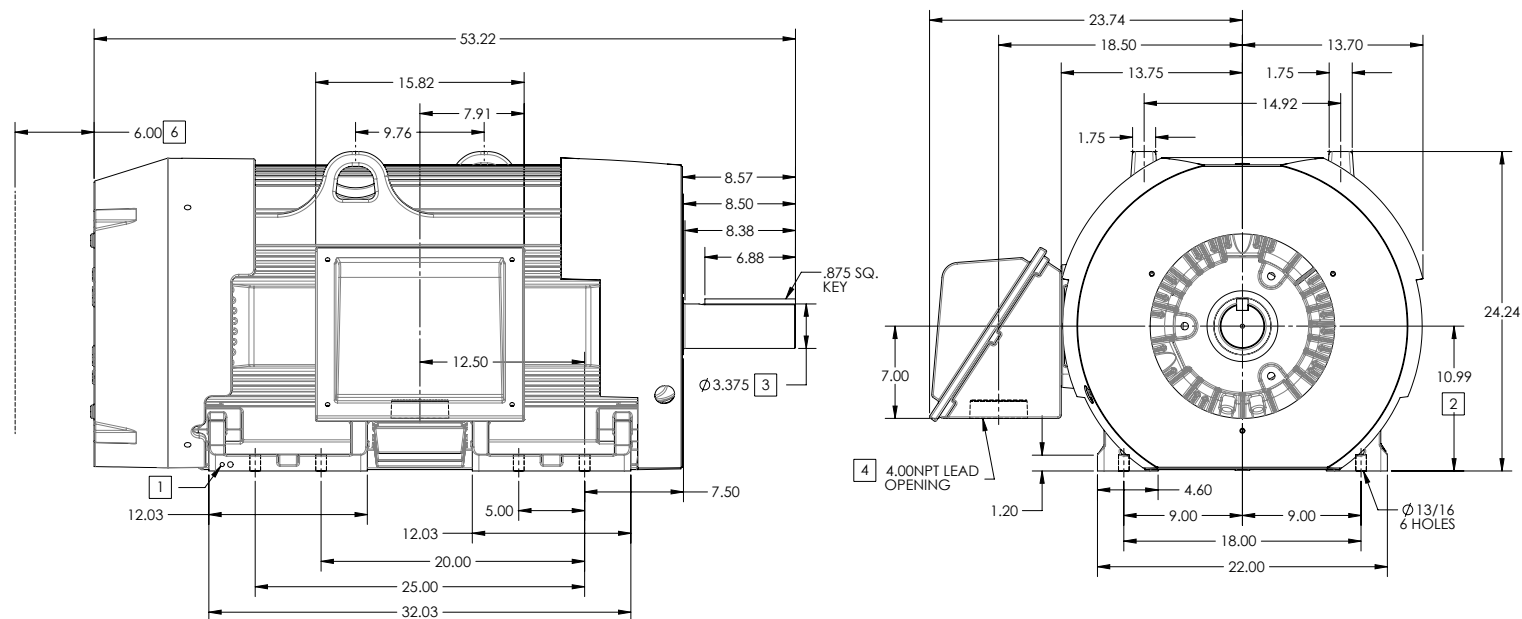
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 449T 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 1.5% 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

1607-27-091

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

BALDOR

G449/447T SIDE MOUNT C-BOX, TEFC

617427-091

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

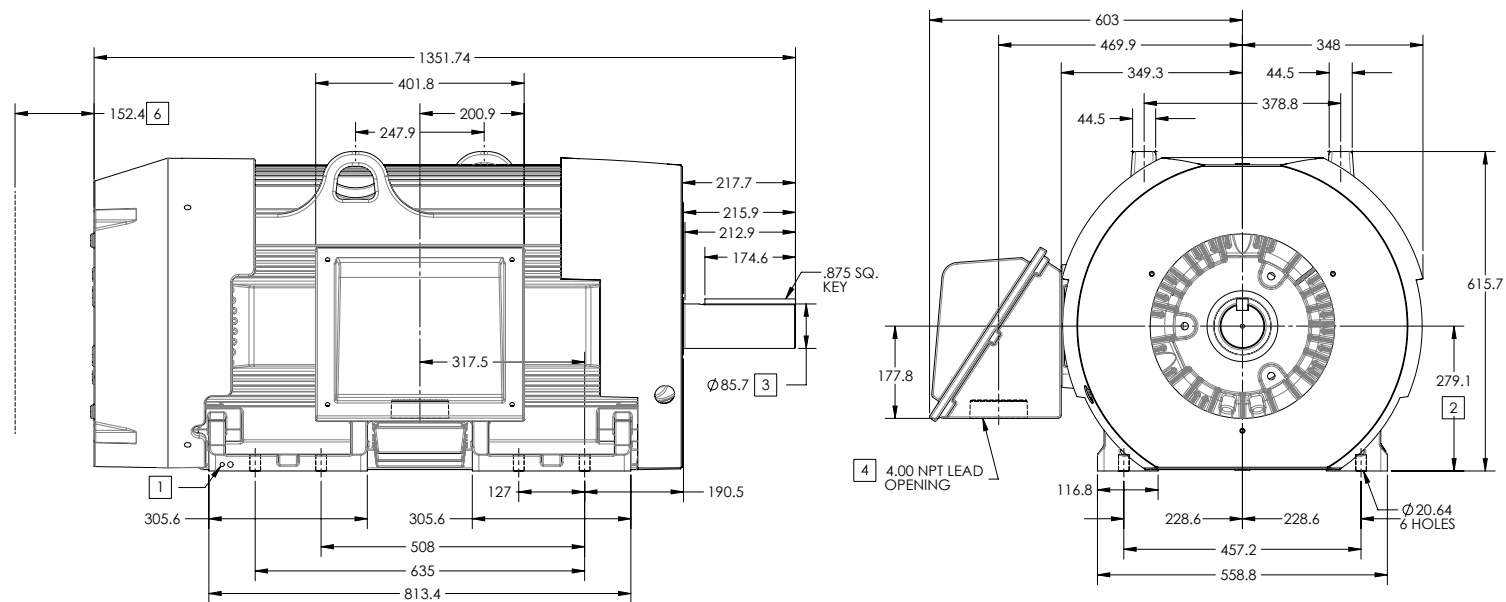
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 449T 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 1.5% 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

1607-27-119

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

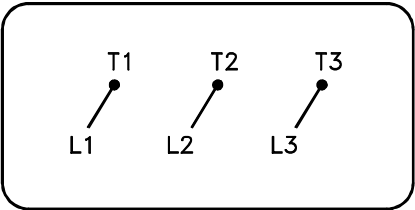
BALDOR

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		
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