



Customer information packet

ECP44304TR-4

300HP, 1785RPM, 3PH, 60HZ, 449T, A44152M, TEFC

Class - CL I GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	300.000 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	30-60
Current @ Voltage	334.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	334.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG

Part detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1556
Layout	617427-003
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	08-16-2012

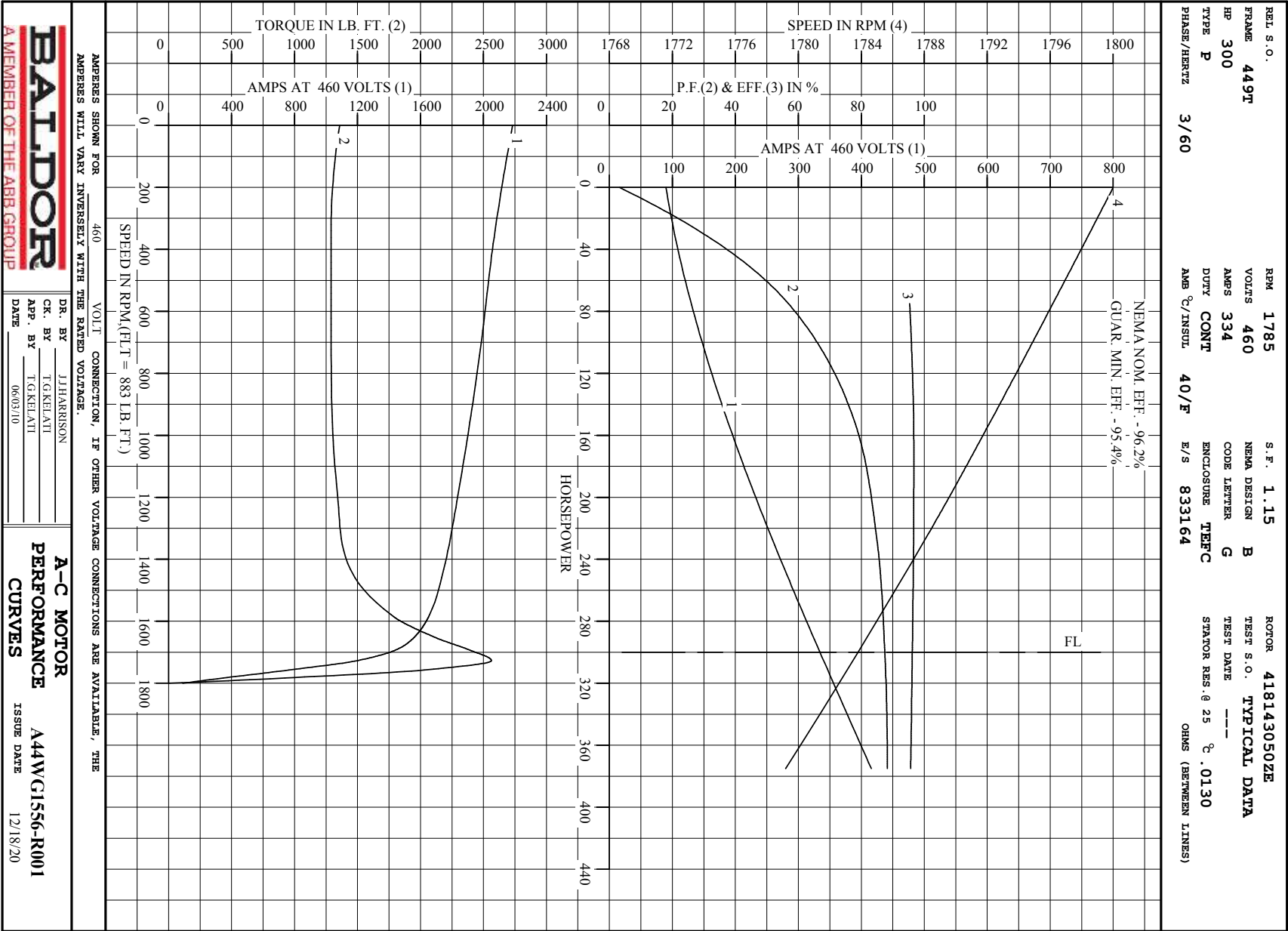
Motor Standards	Other
Motor Type	A44152M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	53.24 IN
Power Factor	88
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238												
CAT NO	ECP44304TR-4			SPEC NO.		P44G3955						
HP	300	AMPS	334	VOLTS		460			DESIGN	B		
FRAME	449T	RPM	1785	HZ	60	AMB	40	SF	1.15			
D.E. BRG.DATA	NU222		O.D.E. BRG.DATA			6318		PH	3	DUTY	CONT	INSUL.CLASS
D.E. BRG.	110RU02M30X			TYPE	P	ENCL	TEFC	CODE	G			
O.D.E. BRG.	90BC03J30X			POWER FACTOR			88	NEMA NOM EFFICIENCY			96.2	
3/4 LOAD EFF.	96.6	MAX CORR KVAR			52.0		GUARANTEED EFFICIENCY			95.8		
TEMP CODE	T2C	TEMP =	230									
CHP HZ	60-90	CT HZ	30-60	VT HZ	0-60							
INVERTER-TEMP-CODE	T2C											
SER.NO.				MOTOR WEIGHT								

NP2496L	
MOBIL SHC -220 GREASE	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	300	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
334	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833164	418143050ZE	---	---	.0130		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	89.8	1800	3.18	0	
1/4	75.1	130	1796	56.9	95.3	
2/4	150	187	1792	77.7	96.6	
3/4	225	257	1788	84.8	96.6	
4/4	300	334	1784	87.5	96.2	
5/4	375	416	1779	88.2	95.7	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	154	1358	2185		
PULL UP	342	146	1290	2073		
BREAKDOWN	1727	290	2564	1198		
FULL LOAD	1784	100	883	334		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA NEMA NOM. EFF. - 96.2% GUAR. MIN. EFF. - 95.4%						
BALDOR A MEMBER OF THE ABB GROUP DR. BY J. J. HARRISON CK. BY T. G. KEIYATI APP. BY T. G. KEIYATI DATE 06/03/10 A-C MOTOR PERFORMANCE DATA A44WG1556-R001 ISSUE DATE 12/18/20						



REL. S.O.
FRAME 449T
HP 300
TYPE P
PHASE/HERTZ 3/60

RPM 1785
VOLTS 460
AMPS 334
DUTY CONT
AMB °C/INSUL 40/F
E/S 833164

S.F. 1.15
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
STATOR RES @ 25 °C. 0130
OHMS (BETWEEN LINES)

ROTOR 418143050ZE
TEST S.O. TYPICAL DATA
TEST DATE ---
°C. 0130

10.00
9
8
7
6
5
4
3
2
1

1.00
9
8
7
6
5
4
3
2
1
0

TIME IN SEC.

OVERLOAD
LOCKED-ROTOR, 40 °C
ACCELERATION
LOCKED-ROTOR

145C FOR OVERLOAD AND ACC
145 C FOR LOCKED-ROTOR

MOTOR INITIAL TEMPERATURE:
145C FOR OVERLOAD AND ACC
145 C FOR LOCKED-ROTOR

1
0
200
400
600
800
1000
1200
1400

% FULL LOAD CURRENT

1.0
9
8
7
6
5
4
3
2
1
0

1
0
200
400
600
800
1000
1200
1400

AMPERES SHOWN FOR 460
AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

VOULT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE

REMARKS:
THERMAL LIMIT CURVE
NEMA NOM. EFF. - 96.2%
GUAR. MIN. EFF. - 95.4%

A MEMBER OF THE ABB GROUP

BALDOR

DR. BY JHARRISON
CK. BY TCKELATT
APP. BY TCKELATT
DATE 06/03/10

A-C MOTOR
PERFORMANCE
CURVES

A44WG1556-R001
ISSUE DATE 12/18/20

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

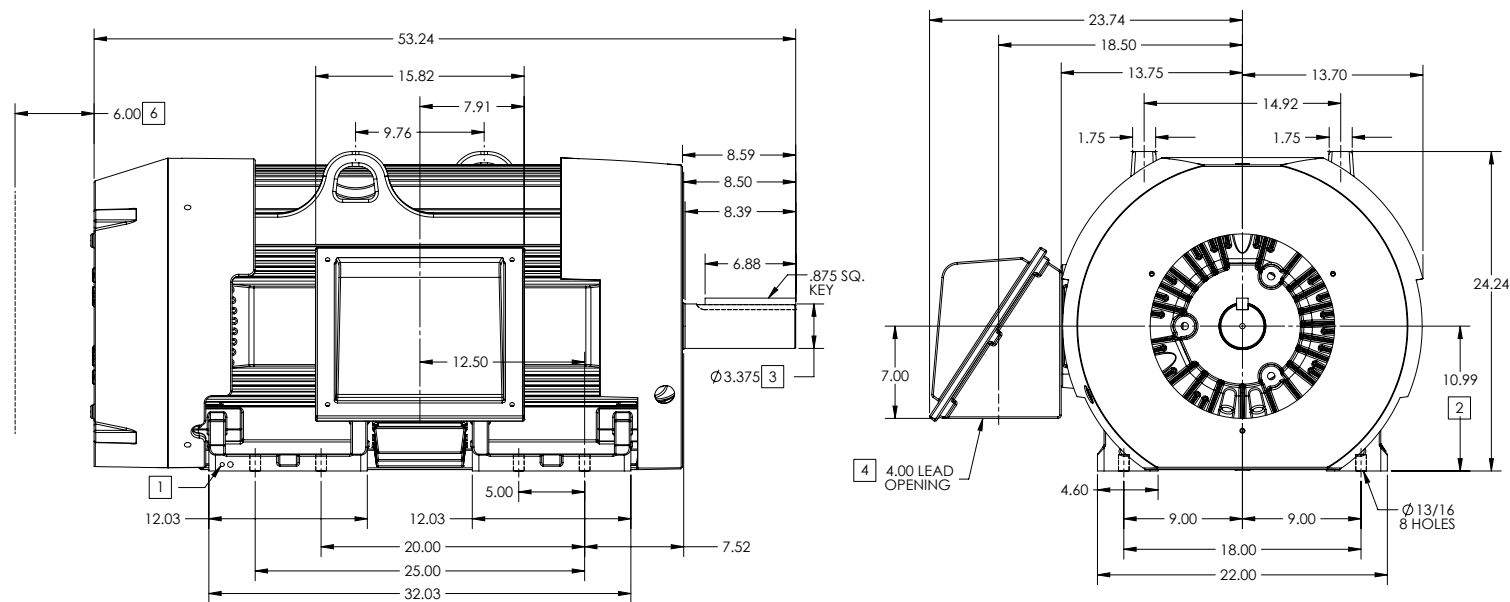
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449T ABOVE NEMA RATINGS (1800 RPM MAX)

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,-.06
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 NOT ENCRATCH 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; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

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

REV. DESC: NEW DRAWING			
REV: B	VERSION: 02	REVISED: 11:32:36 10/23/2017	TDR: 000001048162
MODEL NO. 617427-003			
BY: RAGRA			

BALDOR

G449T/447T STD – FOOTED – SIDE/CENTER C/B

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

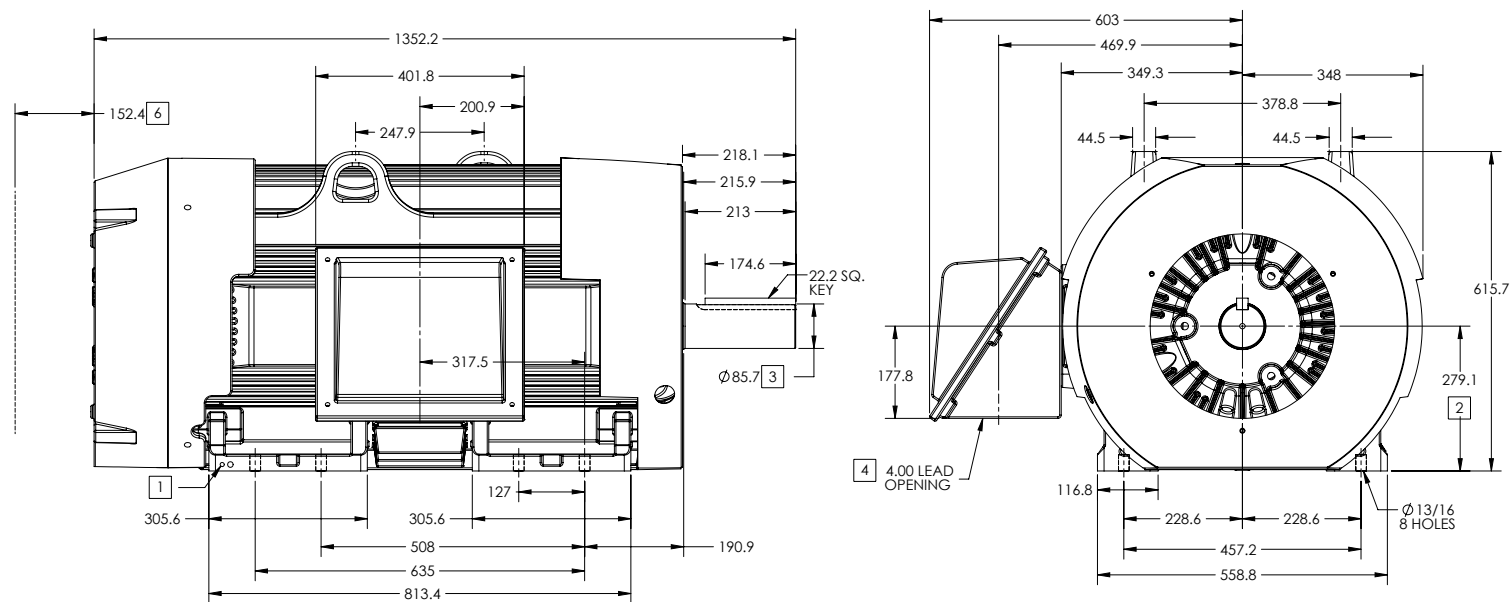
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449T ABOVE NEMA RATINGS (1800 RPM MAX)

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, -.06
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 NOT ENCR OACH 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 .08 MM T.I.R. TO 127 MM DIA.

[5] WEIGHT (KGS): 1400

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

500-CCFL19

REV. DESC: NEW DRAWING	REV. B	VERSION: 02	REVISED: 11/32/36 10/23/2017	TDR: 000001048162
MODEL NO. 617427-003	BY: RAGRA			

BALDOR

G449T/447T STD - FOOTED - SIDE/CENTER C/B

617427-003

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	