



Customer information packet

ECP44256TR-4

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

Class - CLI 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	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	287.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	287.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	Other

Part detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3356
Layout	617427-003
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	06
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	08-16-2012

Motor Type	A44160M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	53.24 IN
Power Factor	85
Pulley End Bearing Type	Ball
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

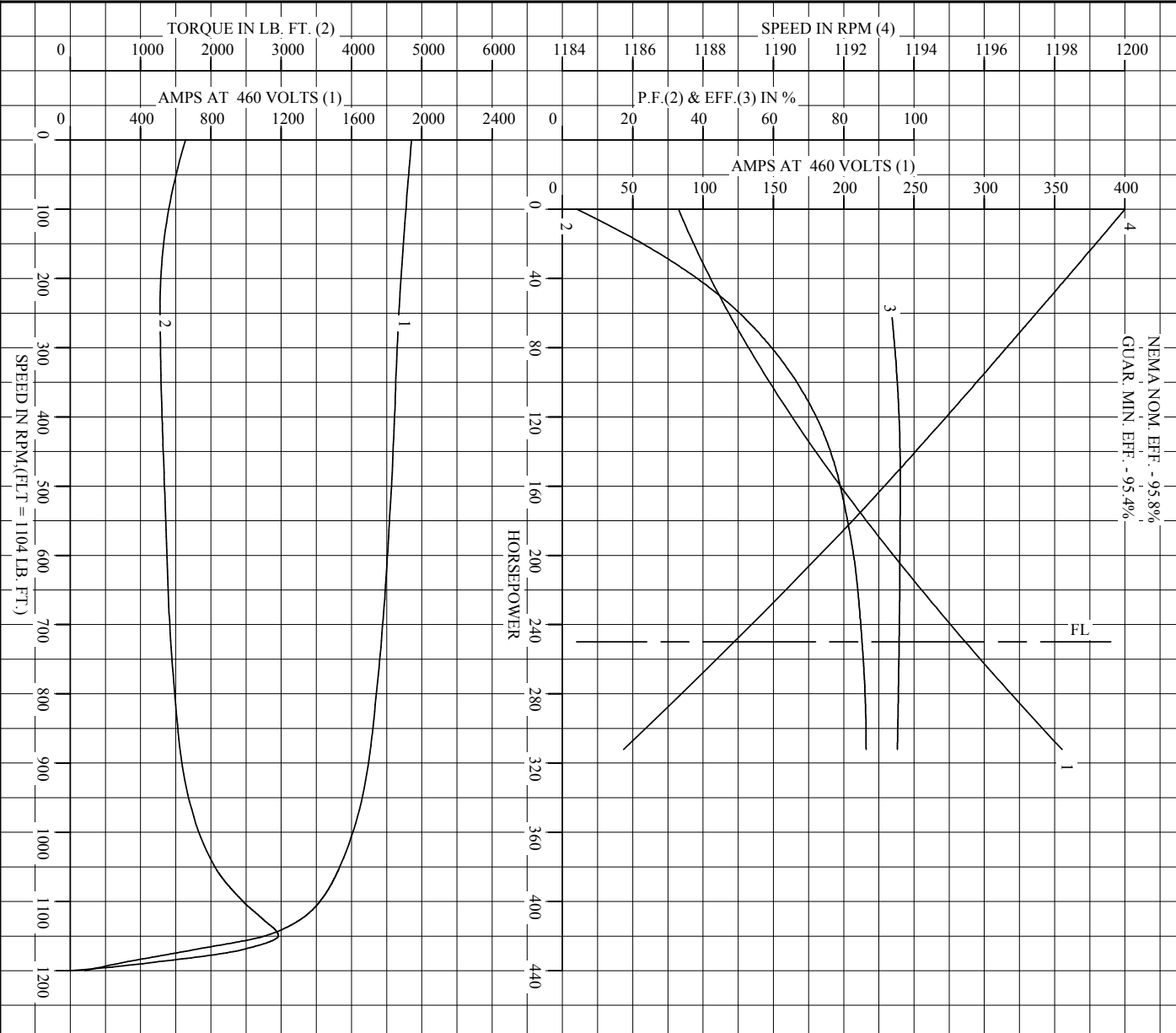
Nameplate

NP3238																					
CAT NO	ECP44256TR-4			SPEC NO.		P44G3952															
HP	250	AMPS		287		VOLTS		460		DESIGN		B									
FRAME	449T		RPM		1190		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	
D.E. BRG.	110RU02M30X				TYPE		P		ENCL		TEFC		CODE		G						
O.D.E. BRG.	90BC03J30X				POWER FACTOR				85		NEMA NOM EFFICIENCY				95.8						
3/4 LOAD EFF.	96.0		MAX CORR KVAR				48.0		GUARANTEED EFFICIENCY				95.4								
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
	449VPZ	250	P	3/60	1190	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
287	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833228	418143083LE	---	---	.0163		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	82.3	1200	4.07	0	
1/4	62.6	121	1197	51.7	93.8	
2/4	125	166	1195	73.3	95.8	
3/4	187	223	1192	81.8	96.0	
4/4	250	287	1189	85.2	95.8	
5/4	312	355	1186	86.4	95.3	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR	0	149	1640	1942		
PULL UP	240	116	1278	1872		
BREAKDOWN	1149	268	2960	1113		
FULL LOAD	1189	100	1104	287		
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. - 95.8% GUAR. MIN. EFF. - 95.4%						
		DR. BY J. J. HARRISON CK. BY W. L. SMITH APP. BY W. L. SMITH DATE 08/31/10		A-C MOTOR PERFORMANCE DATA A44WG3356-R001 ISSUE DATE 11/20/17		

REL. S. O.		RPM	1190	S. F.	1.15	ROTOR	418143083LE
FRAME	449VPZ	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	250	AMPS	287	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES. @ 25 °C	.0163
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	833228	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 J. HARRISON
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 08/31/10

A-C MOTOR PERFORMANCE CURVES
A44WG3356-R001
ISSUE DATE 11/20/17

REL. S.O.	RPM	1190	S.F.	1.15	ROTOR	4181430831E
FRAME	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	AMPS	287	CODE LETTER	G	TEST DATE	---
TYPE	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES @ 25 °C	.0163
PHASE/HERTZ	AMB °C/INSUL	40/F	E/S	833228	OHMS (BETWEEN LINES)	

10.00

9

8

7

6

5

4

3

2

1.00

.9

.8

.7

.6

.5

.4

.3

.2

1

0

200

400

600

800

1000

1200

1400

TIME IN SEC.

OVERLOAD

LOCKED-ROTOR, 40 °C

LOCKED-ROTOR

% FULL LOAD CURRENT

MOTOR INITIAL TEMPERATURE:
139 °C FOR OVERLOAD AND ACC
139 °C FOR LOCKED-ROTOR

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

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

REMARKS:

THERMAL LIMIT CURVE

NEMA NOM. EFF. - 95.8%

GUAR. MIN. EFF. - 95.4%

DR. BY	J.HARRISON	A-C MOTOR	
CK. BY	W.L.SMITH	PERFORMANCE	
APP. BY	W.L.SMITH	A44WG3356-R001	
DATE	08/31/10	ISSUE DATE	11/20/17

A MEMBER OF THE ABB GROUP

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

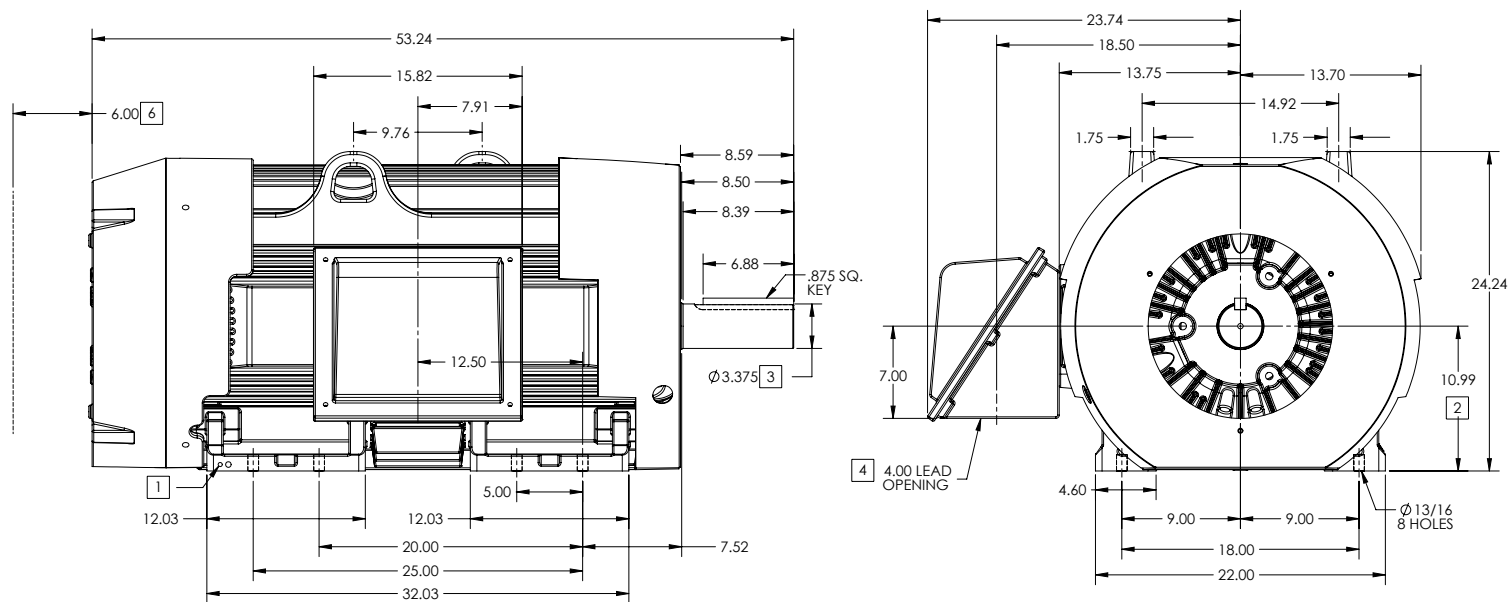
ENCLOSURE: TOTALLY ENCLOSED

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 .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.

SHEET NUMBER
1 OF 2

500-227119

REV. DESC: NEW DRAWING	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

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

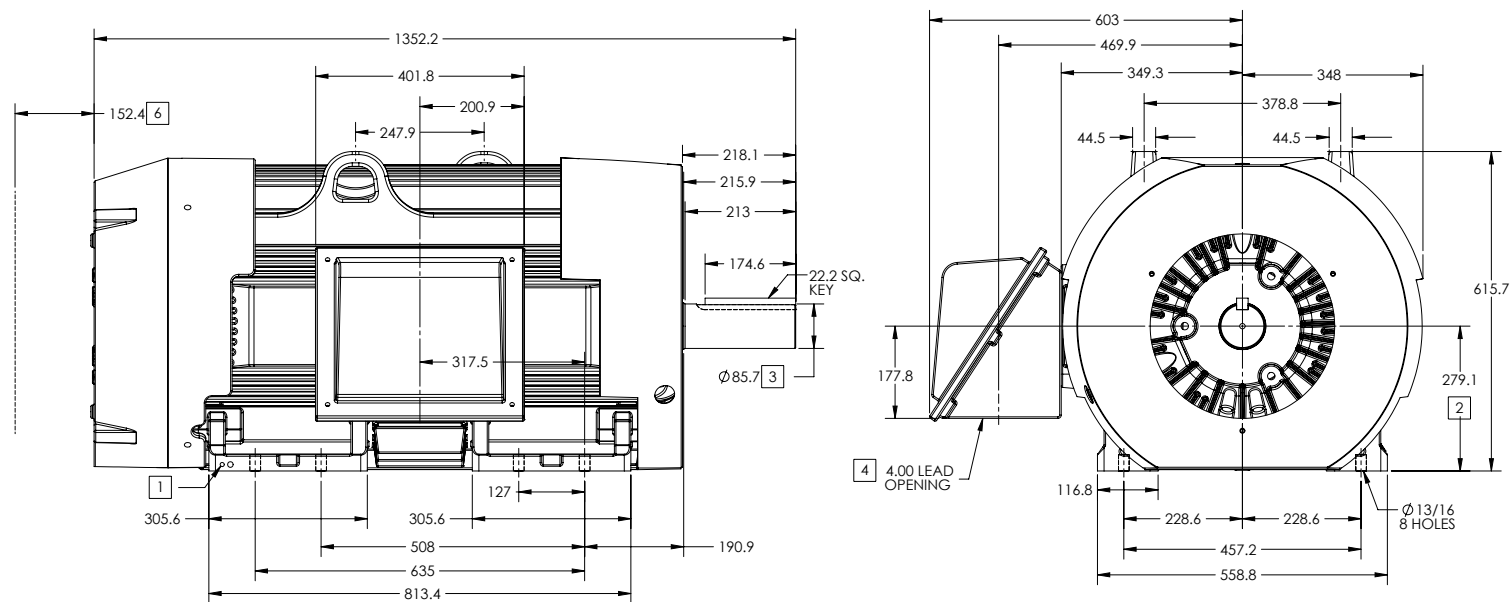
ENCLOSURE: TOTALLY ENCLOSED

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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 .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		
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