



Customer information packet

ECP4422T-4

150HP, 890RPM, 3PH, 60HZ, 449T, TEFC, FOOT,
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	150.000 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	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	188.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	188.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA

Part detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1993
Layout	617427-003
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	08
Leads	3#2 (02 per group)
Proprietary	False
Created date	01-09-2014

Motor Type	A44120M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	53.24 IN
Power Factor	79
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	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

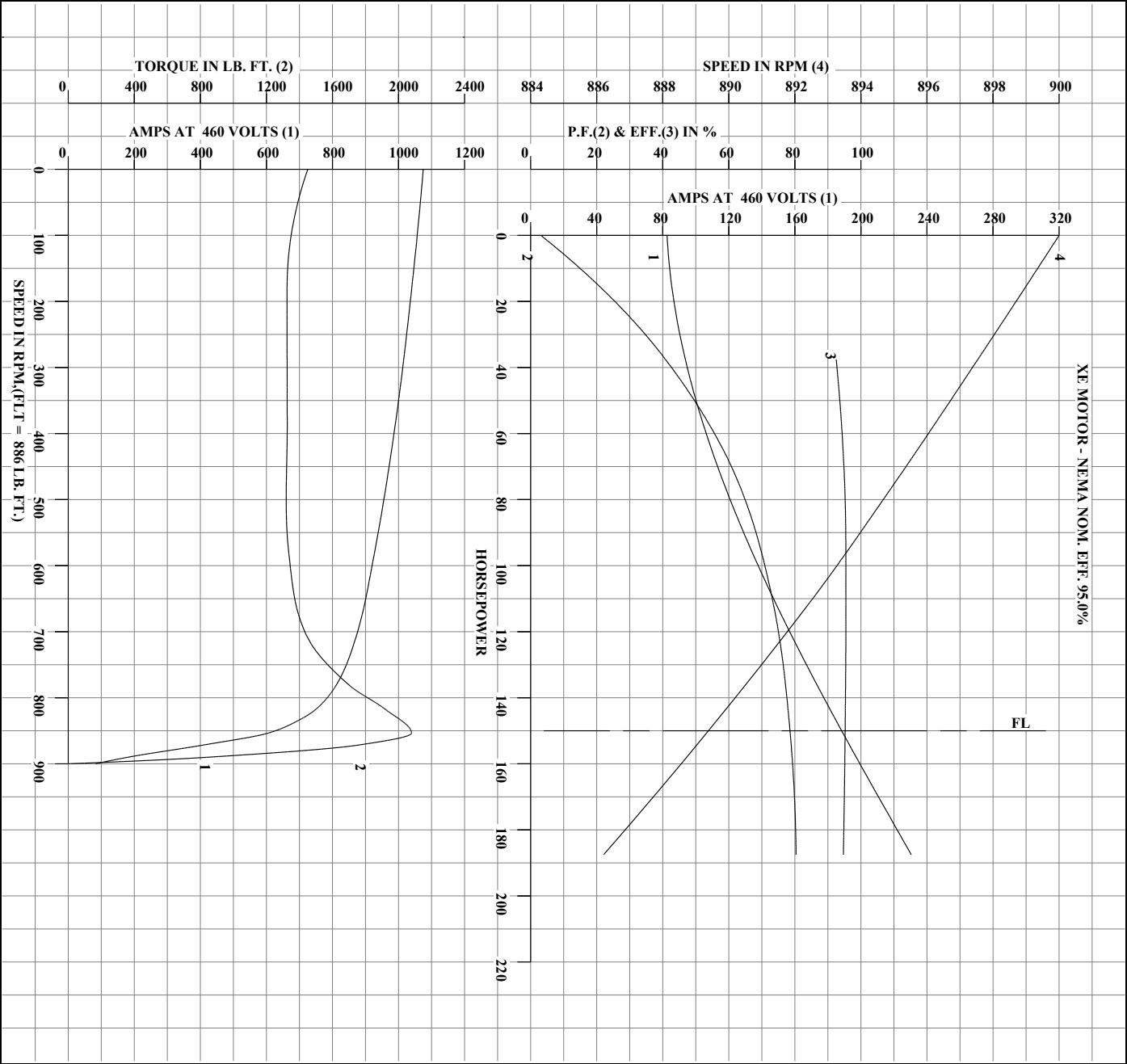
Nameplate

NP3238

CAT NO	ECP4422T-4			SPEC NO.		A44-5312-1993						
HP	150	AMPS	188	VOLTS		460	DESIGN	B				
FRAME	449T	RPM	890	HZ	60	AMB	40	SF	1.15			
D.E. BRG.DATA	6318	O.D.E. BRG.DATA				6318	PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	90BC03J30X			TYPE	P	ENCL	TEFC	CODE	G			
O.D.E. BRG.	90BC03J30X			POWER FACTOR			79	NEMA NOM EFFICIENCY			95	
3/4 LOAD EFF.	95.4	MAX CORR KVAR			45.0		GUARANTEED EFFICIENCY			94.1		
TEMP CODE	T3	TEMP =	200									
CHP HZ	60-90	CT HZ	15-60	VT HZ	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.				MOTOR WEIGHT								

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	ENCLOSURE
188	CONT	40/F	1.15	B	G	TEFC-841
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
401217	418143-93-BE	---	---	.0269		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	82.8	900	3.12	0	
1/4	37.6	93.1	898	40.8	92.5	
2/4	75.1	117	895	63.0	95.1	
3/4	112	150	892	73.6	95.4	
4/4	150	188	889	78.5	95.2	
5/4	188	231	886	80.4	94.7	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	164	1451	1075	
PULL UP		180	150	1325	1040	
BREAKDOWN		853	235	2079	606	
FULL LOAD		889	100	886	188	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA XE MOTOR - NEMA NOM. EFF. 95.0%						
		DRAWN BY: B.R.PENDLEY CHECKED BY: B.R.PENDLEY APPROVED BY: W.L.SMITH DATE: 01/18/13		AC MOTOR PERFORMANCE DATA	A44WG1993-R002 DATE ISSUED 03/05/14	

REL.S.O.	449T	RPM	890	S.F.	1.15	ROTOR	418143-93-BE
FRAME	449T	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	150	AMPS	188	CODE LETTER	G	TEST DATE	--
TYPE	P	DUTY CONT		ENCLOSURE	TEFC-841	STATOR RES. @ 25°C	.0269
PHASE / HERTZ	3/60	AMB °C / INSUL.	40/F	E/S	401217	OHMS (BETWEEN LINES)	



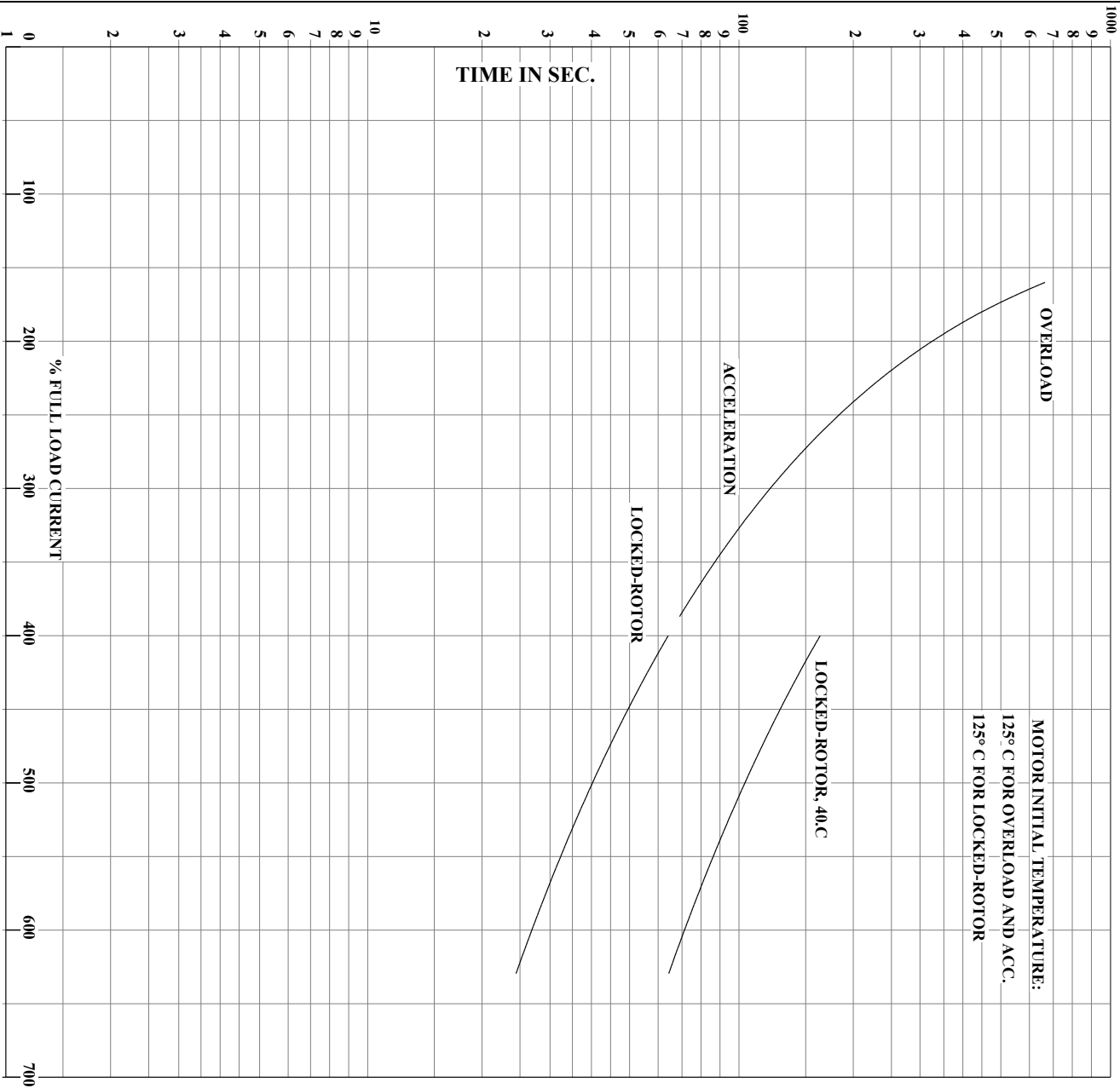
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	DRAWN BY: B.R.PENDLEY CHECKED BY: B.R.PENDLEY APPROVED BY: W.L.SMITH DATE: 01/18/13	AC MOTOR PERFORMANCE DATA	A44W/G1993-R002
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REL.S.O.	RPM 890	S.F. 1.15	ROTOR 418143-93-BE
FRAME 449T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 188	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC-841	STATOR RES. @ 25°C .0269
PHASE / HERTZ 3/60	AMB °C / INSUL 40/F	E/S 401217	OHMS (BETWEEN LINES)



THermal LIMIT CURVE
XE MOTOR - NEMA NOM. EFF. 95.0%

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

	DRAWN BY: B.R.PENDLEY CHECKED BY: B.R.PENDLEY APPROVED BY: W.L.SMITH DATE: 01/18/13	AC MOTOR PERFORMANCE DATA	A44WG1993-R002 ISSUE DATE 03/05/14
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DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

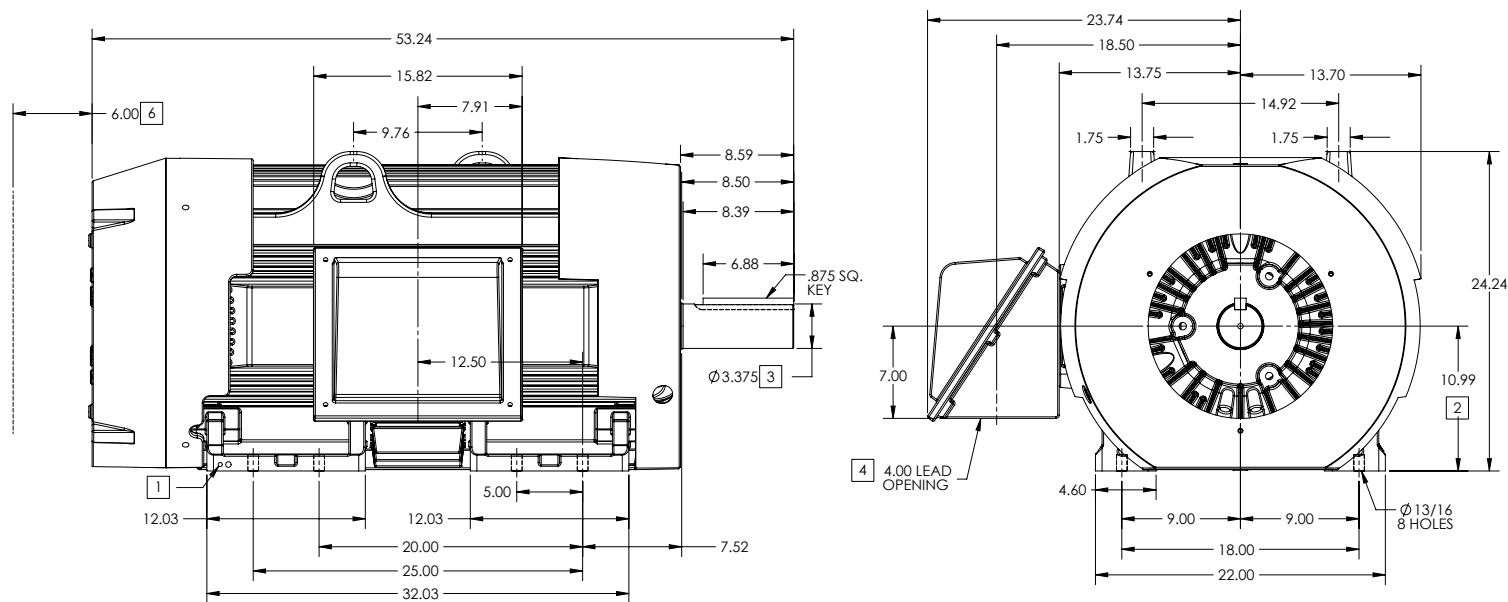
ENCLOSURE: TOTALLY ENCLOSED

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

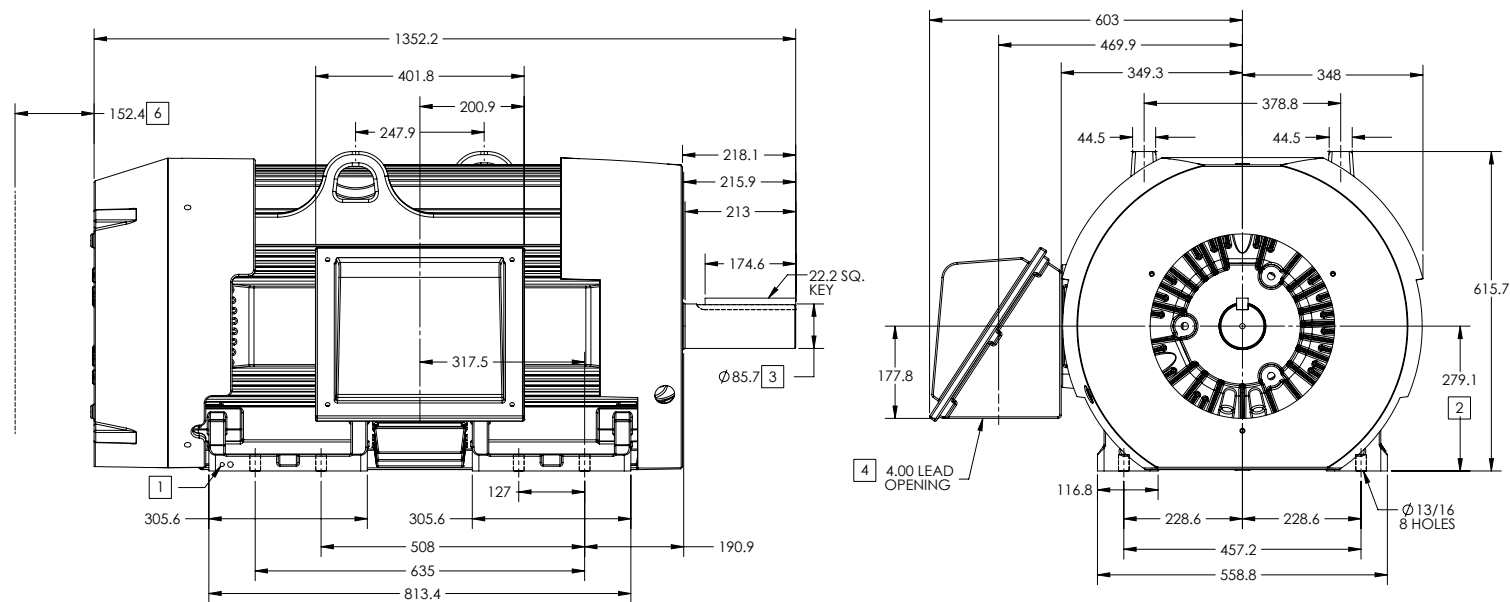
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449T ABOVE NEMA RATINGS (1800 RPM MAX)

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1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00, -.06
3. VARIES +.00, -.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			

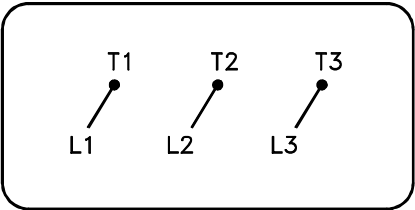
BALDOR

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		
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