ABB BALDOR RELIANCE

Customer information packet

ECP4413T-4

150HP, 3570RPM, 3PH, 60HZ, 445TS, A4478M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	445TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI 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	3600 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	10-60
Current @ Voltage	164.000 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	164.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA

Part Detail

Revision	AA
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3535
Layout	617427-493
Eff. date	02-16-2026
CD Diagram	416820-036
Poles	02
Leads	3#2 (02 per group)
Proprietary	False
Created date	08-16-2012

Motor Type	A4478M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	40.83 IN
Power Factor	90
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238												
CAT NO	ECP4413T-4			**SPEC NO.**	P44G3944							
HP	150	**AMPS**	164		**VOLTS**	460		**DESIGN**	B			
FRAME	445TS	**RPM**	3570	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	6313			**O.D.E. BRG.DATA**	6313			**PH**	3	**DUTY**	CONT	**INSUL.CLASS** F
D.E. BRG.	65BC03J30X			**TYPE**	P	**ENCL**	TEFC	**CODE**	G			
O.D.E. BRG.	65BC03J30X			**POWER FACTOR**	90			**NEMA NOM EFFICIENCY**			95	
3/4 LOAD EFF.	95.7			**MAX CORR KVAR**	20.0			**GUARANTEED EFFICIENCY**			94.1	
TEMP CODE	T3	**TEMP =**	200									
CHP HZ	60-75	**CT HZ**	10-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.				**MOTOR WEIGHT**								

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445	150	P	3/60	3570	460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
164	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
0	0	---	---	.0292

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	34.7	3600	6.89	0
1/4	37.5	59.2	3593	63.9	92.9
2/4	75.1	90.3	3585	81.7	95.3
3/4	113	125	3578	87.8	95.7
4/4	150	164	3570	89.9	95.6
5/4	187	204	3562	90.4	95.2

SPEED TORQUE

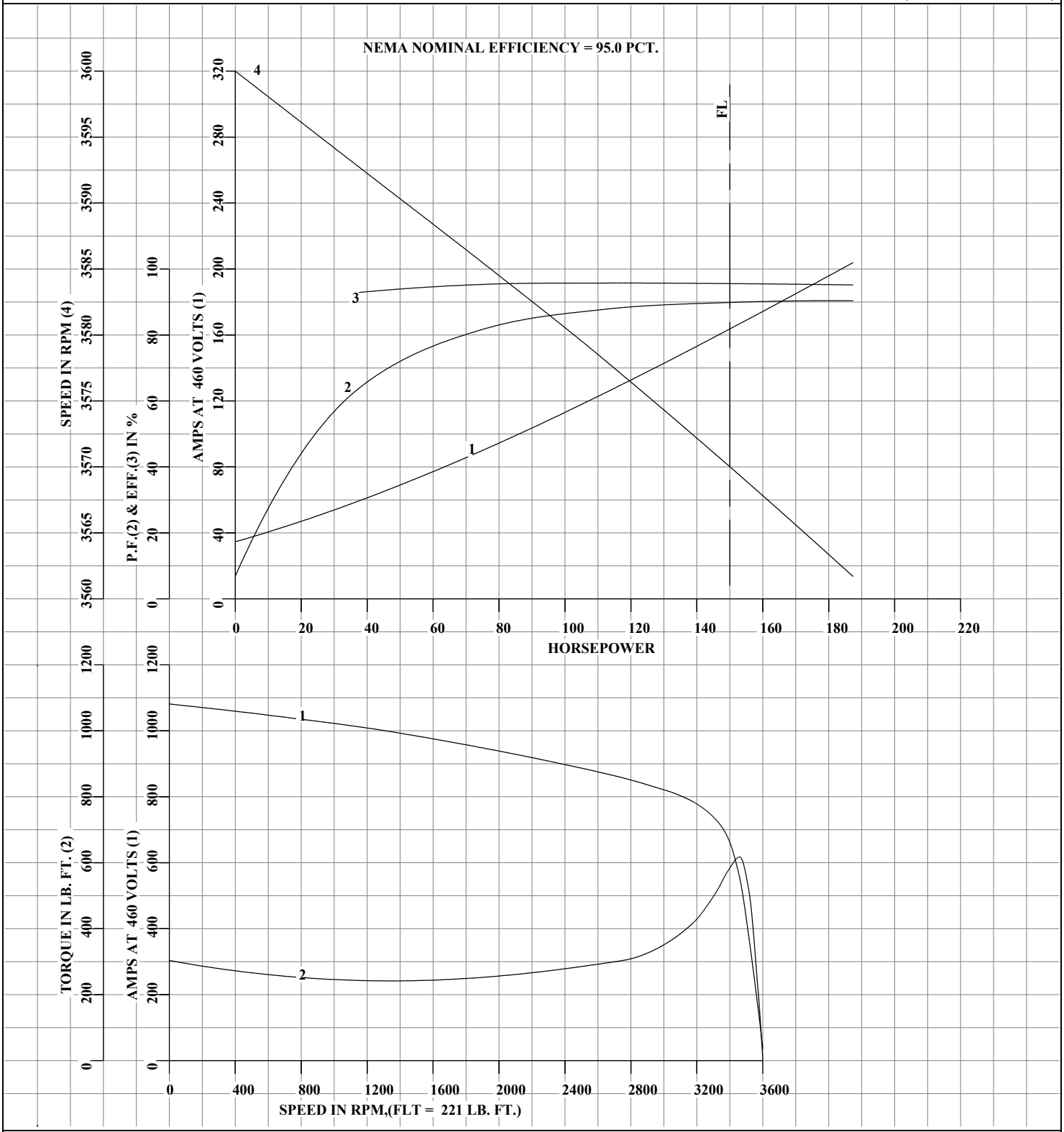
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	138	304	1081
PULL UP	1350	110	242	997
BREAKDOWN	3461	280	618	552
FULL LOAD	3570	100	221	164

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

CALCULATED DATA
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

ABB	DRAWN BY: CD CHECKED BY: CD APPROVED BY: R. MCELVEEN DATE: 1/18/11	AC MOTOR PERFORMANCE DATA	A44WG3535-R001 DATE ISSUED 03/04/20

FRAME 445	RPM 3570	S.F. 1.15	ROTOR 0
HP 150	VOLTS 460	NEMA DESIGN B	TEST S.O. CALCULATED DATA
TYPE P	AMPS 164	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0292
	AMB °C / INSUL 40/F	E/S 0	OHMS (BETWEEN LINES)



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

ABB	DRAWN BY: CD CHECKED BY: CD APPROVED BY: R. MCELVEEN DATE: 1/18/11	AC MOTOR PERFORMANCE DATA	A44WG3535-R001 ISSUE DATE 03/04/2014

DUTY MASTER ALTERNATING CURRENT MOTORS

617427-493

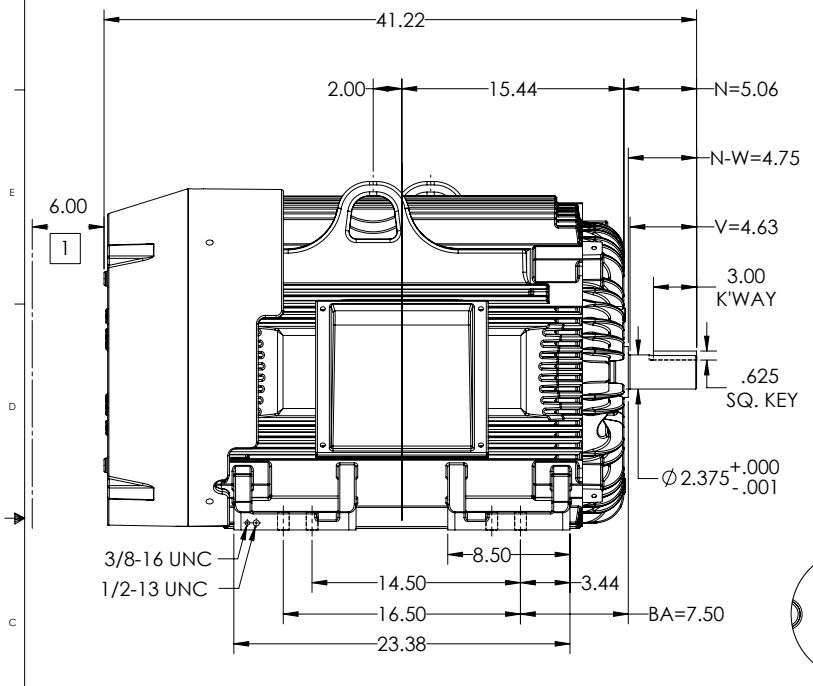
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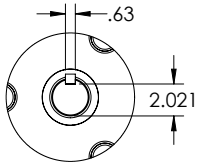
SQUIRREL-CAGE INDUCTION

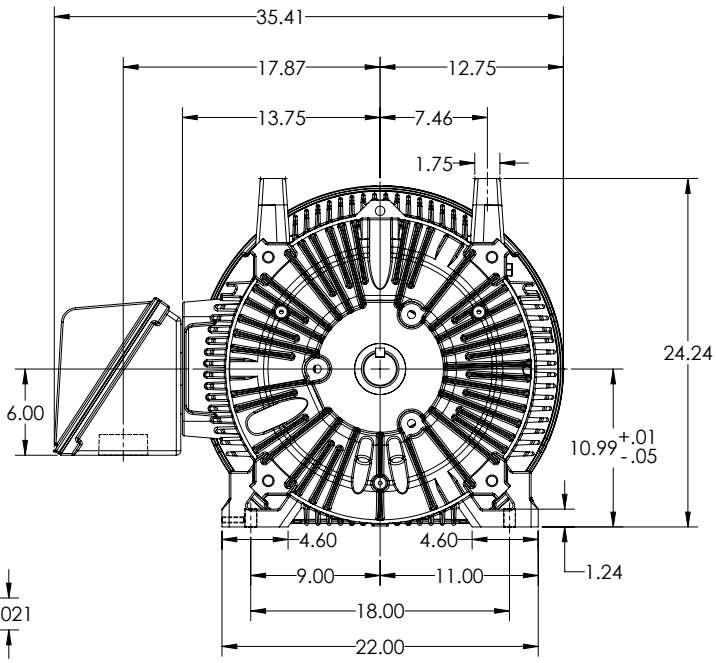
MOUNTING: FOOT, F-1 SIDE

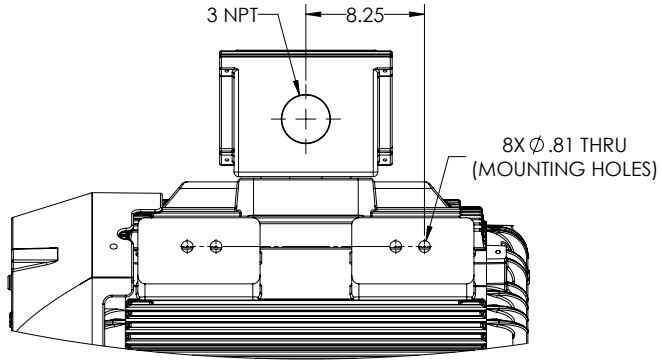
G444TS/G445TS FRAME MOUNTING

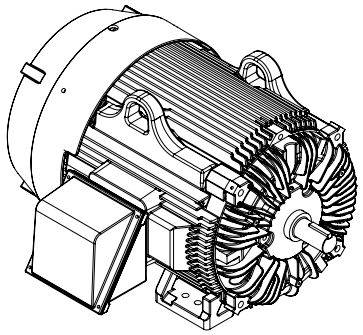
COOLING: FAN COOLED











DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 2130, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 2

617427-493

1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

REV. DESC: ADD KEY DETAIL			
REV: B	VERSION: 02	REVISED: 08:36:26 10/01/2021	TDR: 000001178327
MODEL NO. 617427-493			REF:
BY: USJEDIL	Material:	C	

BALDOR

G445TS/444TS F1 TEFC FOOT/CAST IRON CONDUIT BOX

617427-493

DUTY MASTER ALTERNATING CURRENT MOTORS

617427-493

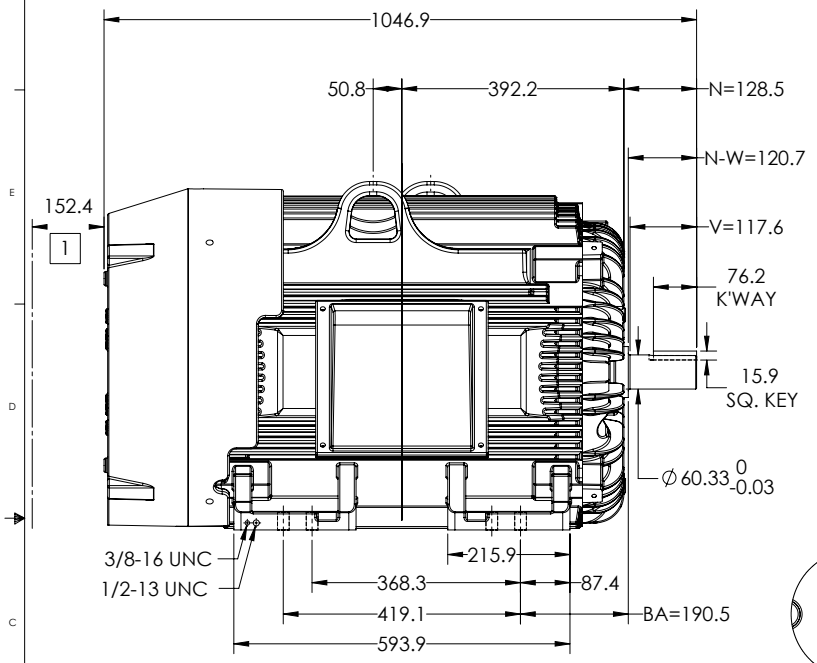
ENCLOSURE: TOTALLY ENCLOSED

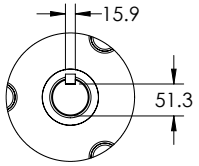
SQUIRREL-CAGE INDUCTION

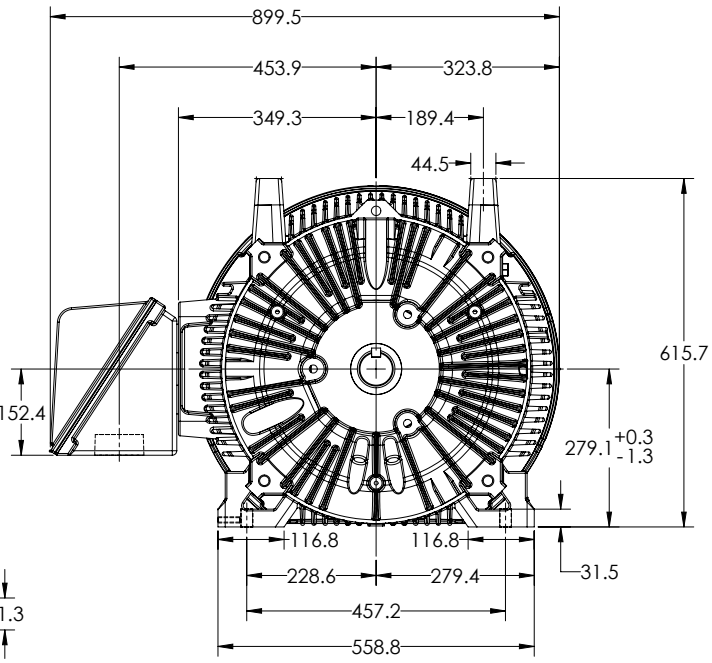
MOUNTING: FOOT, F-1 SIDE

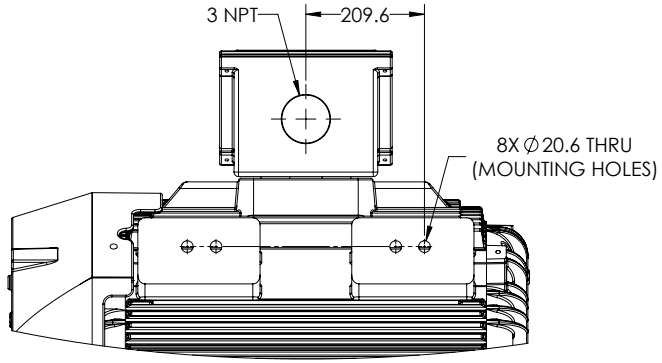
G444TS/G445TS FRAME MOUNTING

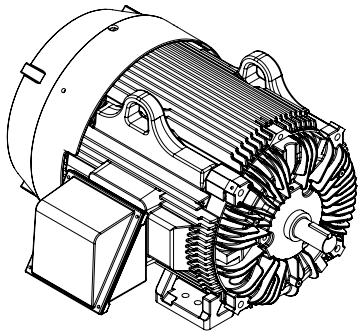
COOLING: FAN COOLED











1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KG): 966, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 2 OF 2

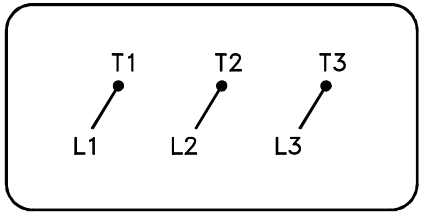
617427-493

REV. DESC: ADD KEY DETAIL			
REV: B	VERSION: 02	REVISED: 08:36:26 10/01/2021	TDR: 000001178327
MODEL NO. 617427-493			REF:
BY: USJEDIL	Material:	C	BALDOR
			G445TS/444TS F1 TEFC FOOT/CAST IRON CONDUIT BOX

617427-493

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