ABB BALDOR RELIANCE

Customer information packet

EM4410T-4

125HP, 1785RPM, 3PH, 60HZ, 444T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	444T
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	144.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	144.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44076M

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5275
Layout	617427-476
Eff. date	10-31-2025
CD Diagram	416820-008
Poles	04
Leads	6#2
Proprietary	False
Created date	09-08-2015

Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.75 IN
Power Factor	85
Product Family	Other
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	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L												
SPEC NO.	A44-0001-5275		**CAT.NO.**	EM4410T-4					**FRAME**	444T		
HP	125	**VOLTS**	460		**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	1785	**AMPS**	144		**HZ**	60	**AMB**	40	**SF**	1.15		
DRIVE END BEARING	90BC03J30X		**DUTY**	CONT			**INSUL.CLASS**	F				
OPP D.E. BEARING	90BC03J30X		**ENCL**	TEFC	**CODE**	G						
SER.NO.			**POWER FACTOR**	85			**NEMA-NOM-EFFICIENCY**	95.4				
							MAX CORR KVAR	27	**GUARANTEED EFFICIENCY**	94.5		
							NEMA NOM/CSA QUOTED EFF					
									MOTOR WEIGHT			

Accessories

Part number	Description	Multiplier
089490106A	G28 C-FACE BRKT MACH-6318 089490105WCA	P1

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444TS	125	P	3/60	1785	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
144	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	---	---	.0383

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	44.8	1800	4.44	0
1/4	31.3	61.7	1796	51.1	92.8
2/4	62.5	84.1	1792	73.0	95.3
3/4	93.7	112	1788	81.7	95.7
4/4	125	144	1784	85.3	95.5
5/4	156	178	1780	86.6	95.1

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	133	489	892
PULL UP	270	114	420	875
BREAKDOWN	1729	290	1067	500
FULL LOAD	1784	100	368	144

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 NOMINAL EFFICIENCY = 95.4PCT.

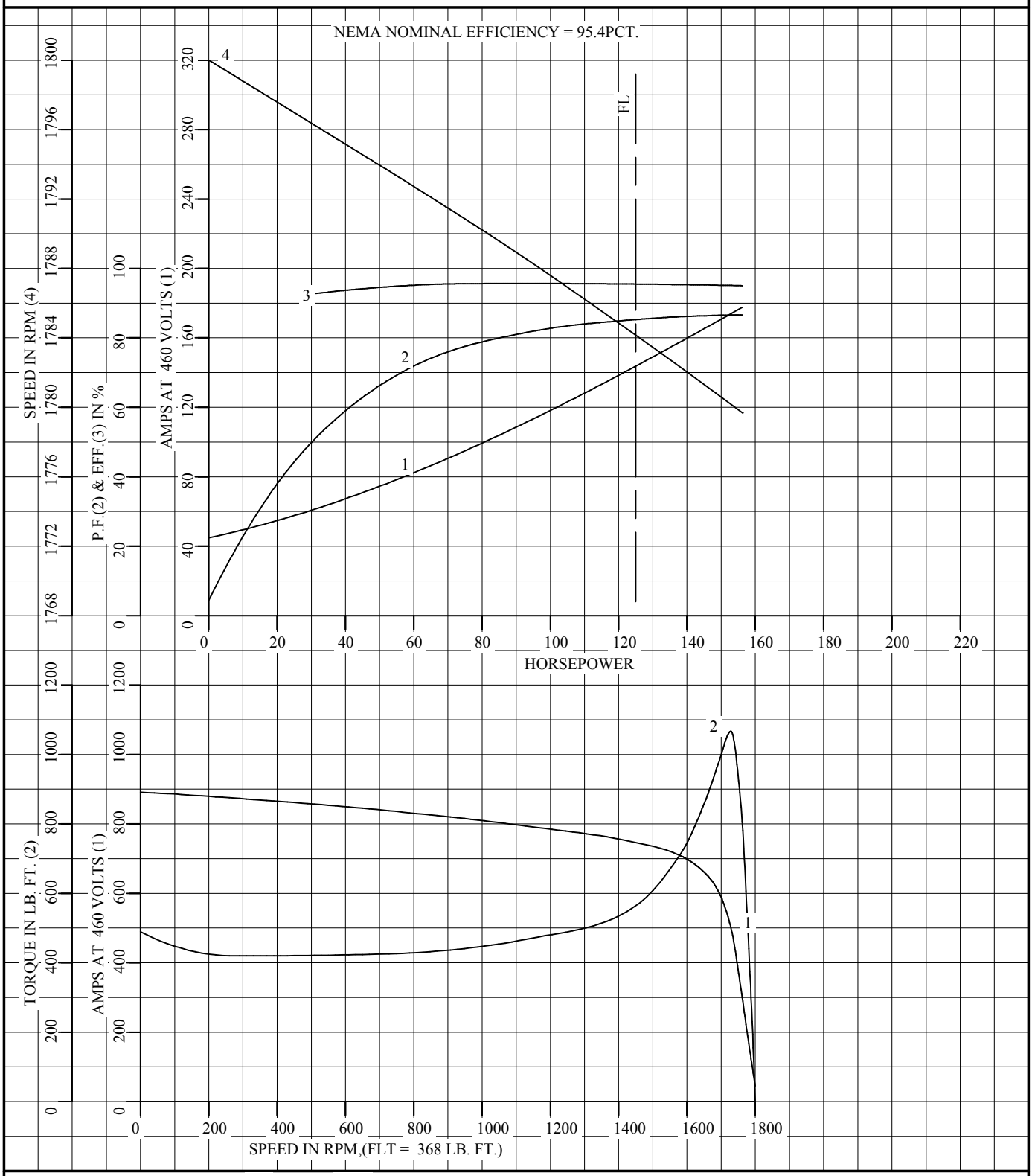
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY E.J.CHRISTIAN
CK. BY T.G.KELATI
APP. BY T.G.KELATI
DATE 10/01/15

A-C MOTOR PERFORMANCE DATA

A44WG5275-R001
ISSUE DATE 11/04/19

REL S.O.	RPM 1785	S.F. 1.15	ROTOR 0
FRAME 444TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 125	AMPS 144	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0383
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 0	OHMS (BETWEEN LINES)



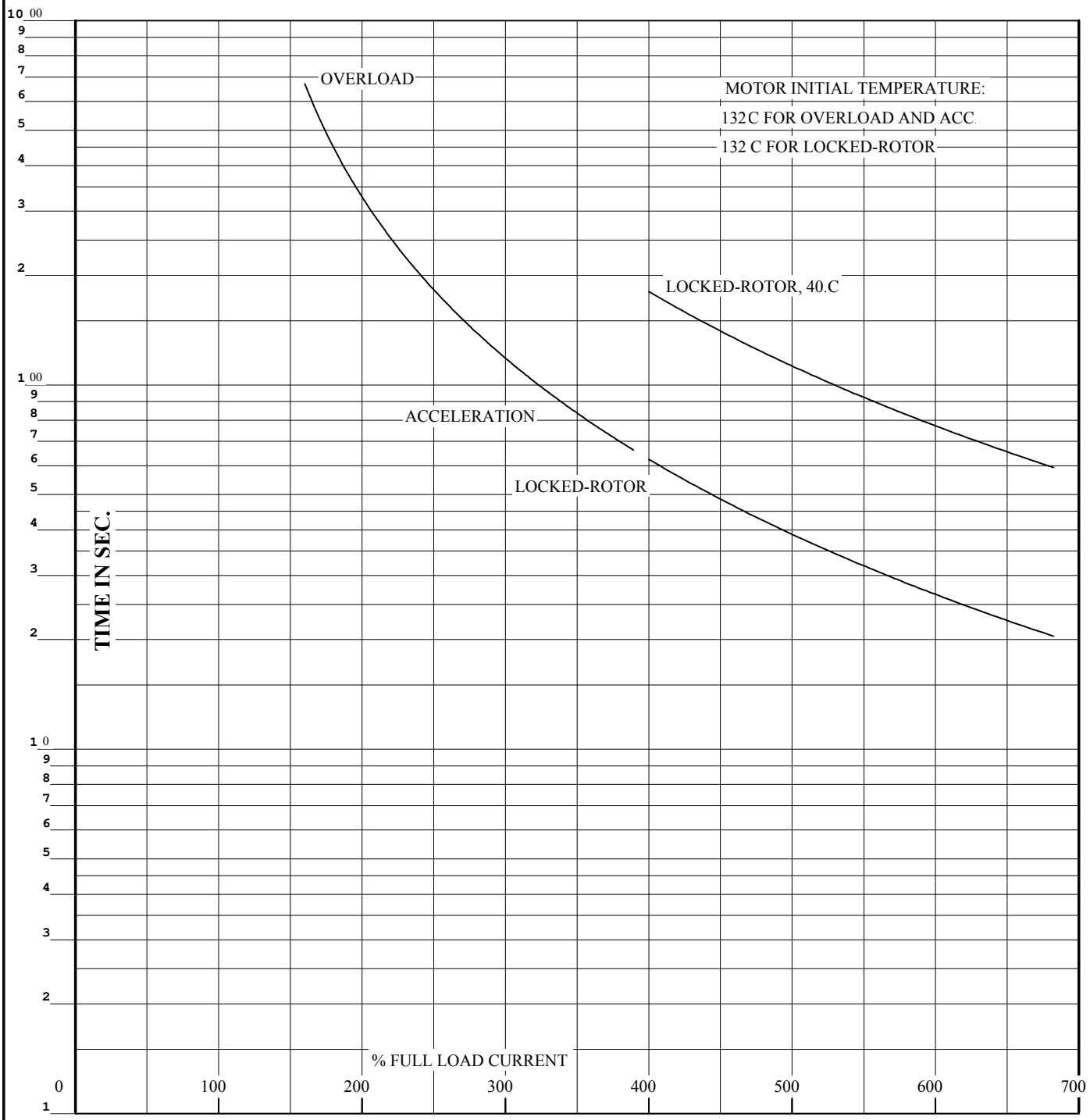
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

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DR. BY	E.J.CHRISTIAN
CK. BY	T.G.KELATI
APP. BY	T.G.KELATI
DATE	10/01/15

A-C MOTOR PERFORMANCE CURVES A44WG5275-R001 ISSUE DATE 11/04/19

REL. S.O.		RPM	1785	S.F.	1.15	ROTOR	0
FRAME	444TS	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	125	AMPS	144	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C.	.0383
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	0		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOMINAL EFFICIENCY = 95.4PCT.

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

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A-C MOTOR PERFORMANCE CURVES

A44WG5275-R001

ISSUE DATE 11/04/19

617427-476

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

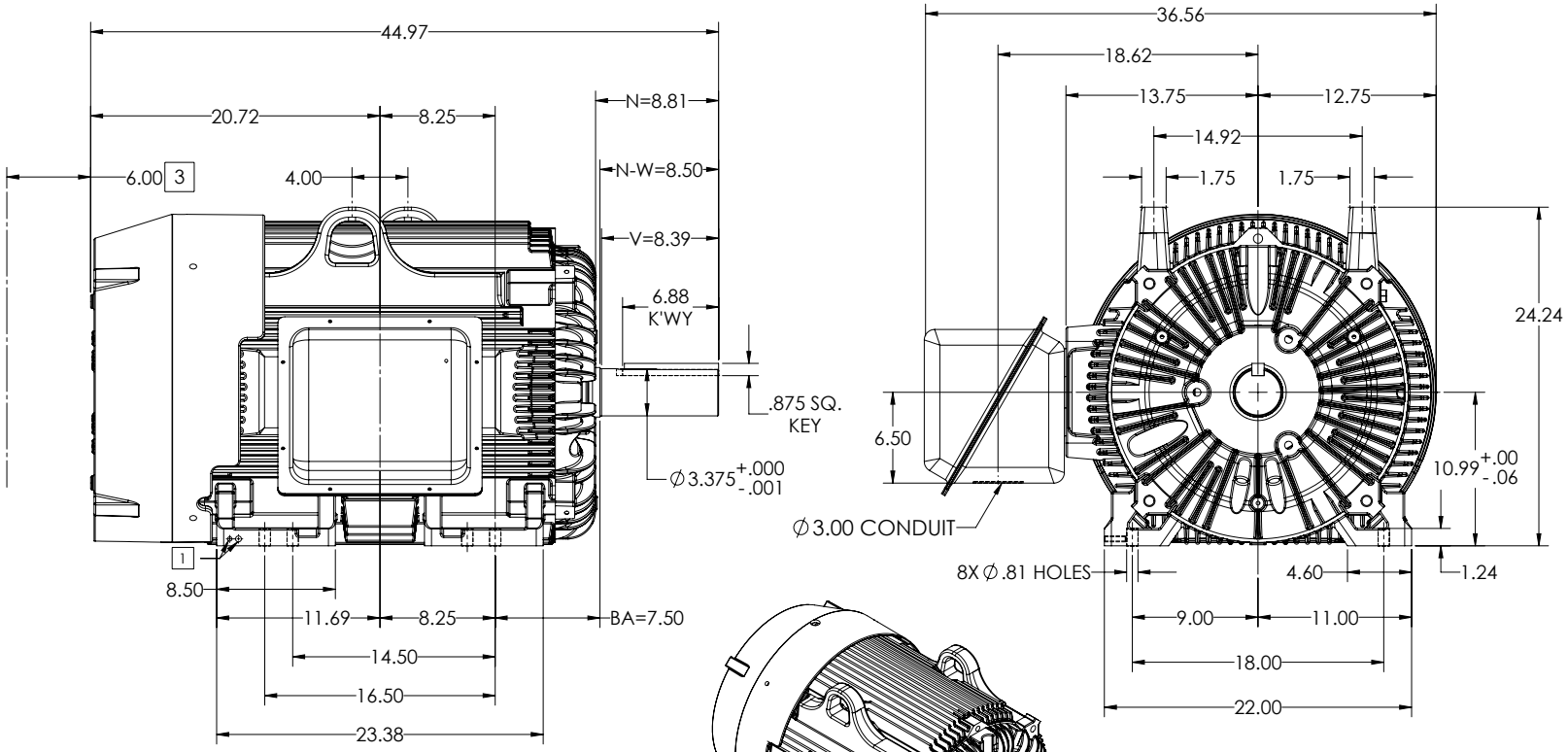
ENCLOSURE: TOTALLY ENCLOSED

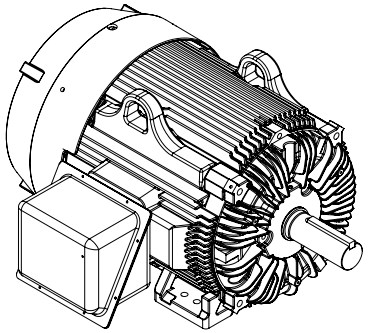
MOUNTING: FOOT, F-1 SIDE

FRAME G444T
INCLUDES G445T FRAME MOUNTING HOLES

COOLING: FAN COOLED

STEEL MAIN CONDUIT BOX





1 GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP

2 MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.

3 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

2 WEIGHT (LBS): 2130

DIMENSIONS ARE IN INCHES

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

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.

SHEET NUMBER 1 OF 1

617427-476

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 10:03:28 04/18/2015	TDR: 000000919063
MODEL NO. 617427-476			REF:
BY: RAGRA	Material:		C

BALDOR

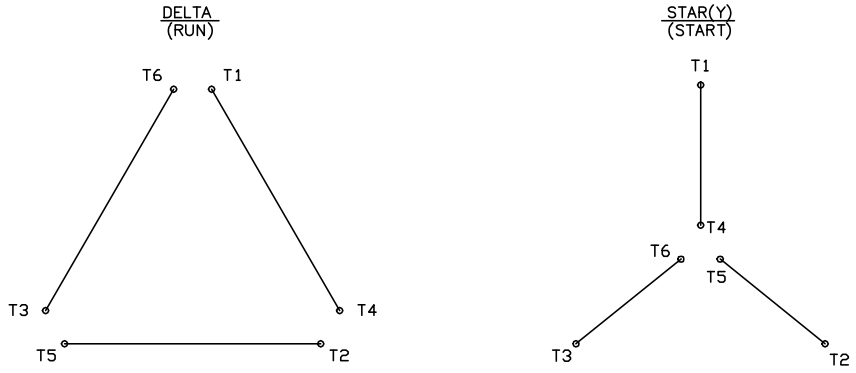
G445T/444T TEFC FT - SD/CNTR - STEEL C/BOX

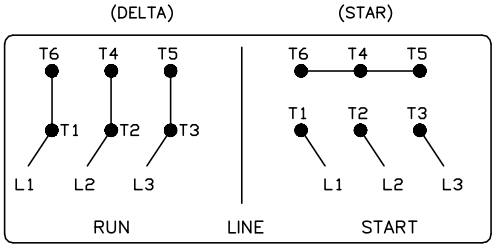
617427-476

416820–008

A–C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD Y START – DELTA RUN





(N. P. 1767-DC)

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM		
REV. LTR: D	VERSION: 04	TDR: 000000847713
FILE: \RAG\00001\808	REVISED: 10:41:26 04/08/2014	BY: RAGJSS1
MTL: –		

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1

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