ABB BALDOR RELIANCE

Customer information packet

EFM4403T

60HP, 1185RPM, 3PH, 60HZ, 404T, TEFC, FOOT, F2
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	404T
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	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	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	69.000 A @ 460.0 V
	152.000 A @ 208.0 V
	138.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	69.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0108
Layout	617429-629
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	06-07-2014

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F2
Number of Poles	6
Overall Length	38.04 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L											
SPEC NO.	A40-6088-0108	**CAT.NO.**	EFM4403T					**FRAME**	404T		
HP	60	**VOLTS**	230/460	**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	1185	**AMPS**	138/69	**HZ**	60	**AMB**	40	**SF**	1.15		
DRIVE END BEARING	80BC03J30X	**DUTY**	CONT	**INSUL.CLASS**	F						
OPP D.E. BEARING	80BC03J30X	**ENCL**	TEFC	**CODE**	G						
SER.NO.		**POWER FACTOR**	86			**NEMA-NOM-EFFICIENCY**	95				
						MAX CORR KVAR	12.5	**GUARANTEED EFFICIENCY**	94.1		
						NEMA NOM/CSA QUOTED EFF					
								MOTOR WEIGHT			

NP2496L
MOBIL POLYREX EM

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	404T	60	P	3/60	1185	230/460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
138/69	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
595762	418142-71EE	---	---	.0270/.108

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	19.9	1200	5.36	0
1/4	15.0	25.9	1197	58.9	92.3
2/4	30.0	37.7	1194	78.5	94.9
3/4	45.0	52.5	1191	84.2	95.2
4/4	60.0	69.0	1187	85.8	95.0
5/4	75.0	86.3	1184	86.2	94.4

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	159	422	425
PULL UP	240	145	385	411
BREAKDOWN	1133	247	655	243
FULL LOAD	1187	100	265	69.0

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

REMARKS: TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 95.0 %
GUARANTEED MIN. EFF. 94.5%

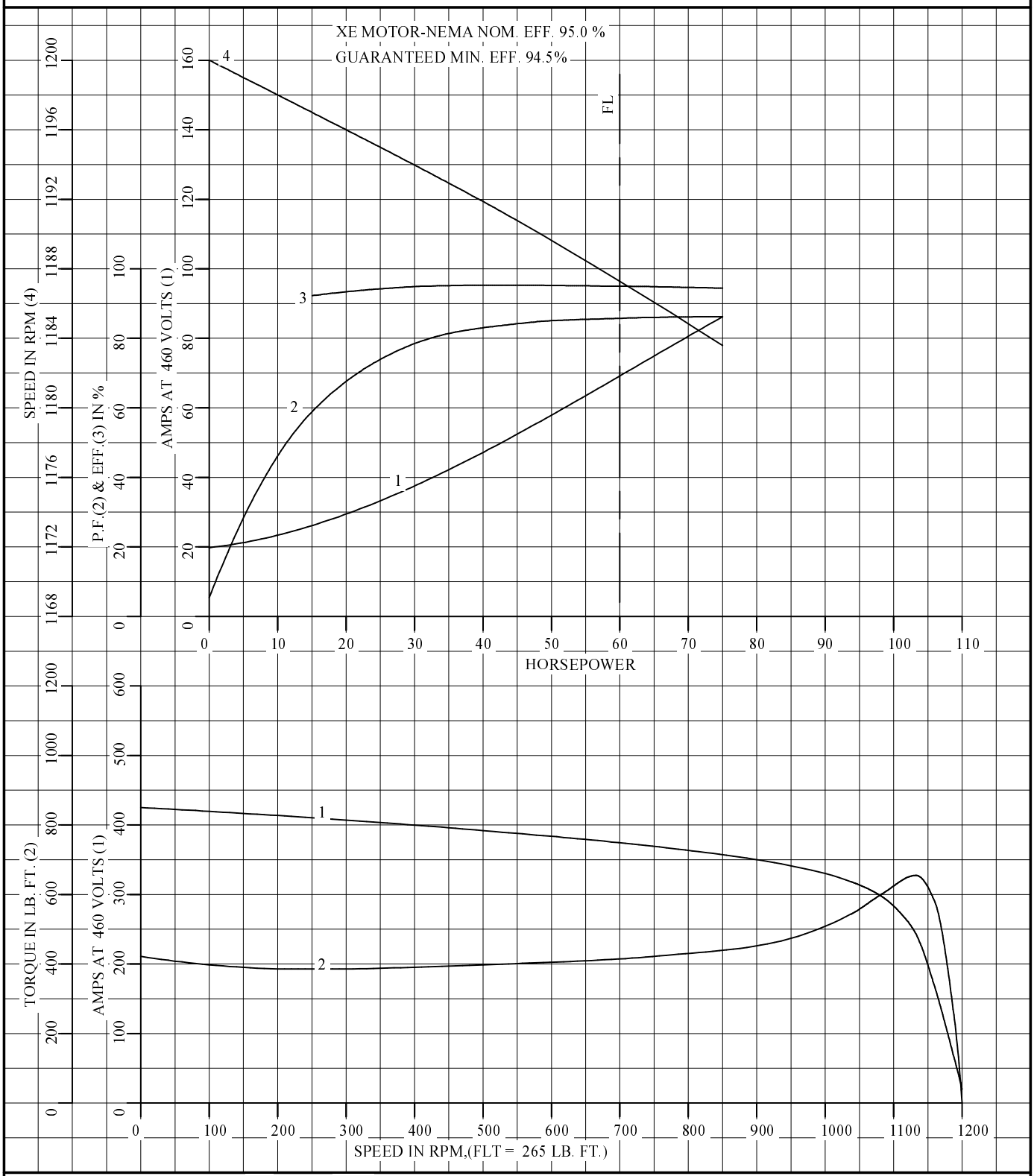
BALDOR

DR. BY J.E.SUMRELL
CK. BY D.M.BYRD
APP. BY D.M.BYRD
DATE 10/29/91

A-C MOTOR PERFORMANCE DATA

A40WG0108-R001
ISSUE DATE 12/15/10

FRAME 404T	RPM 1185	S.F. 1.15	ROTOR 418142-71EE
HP 60	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 138/69	CODE LETTER G	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃ .0270/.108
	AMB ℃/INSUL 40/F	E/S 595762	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

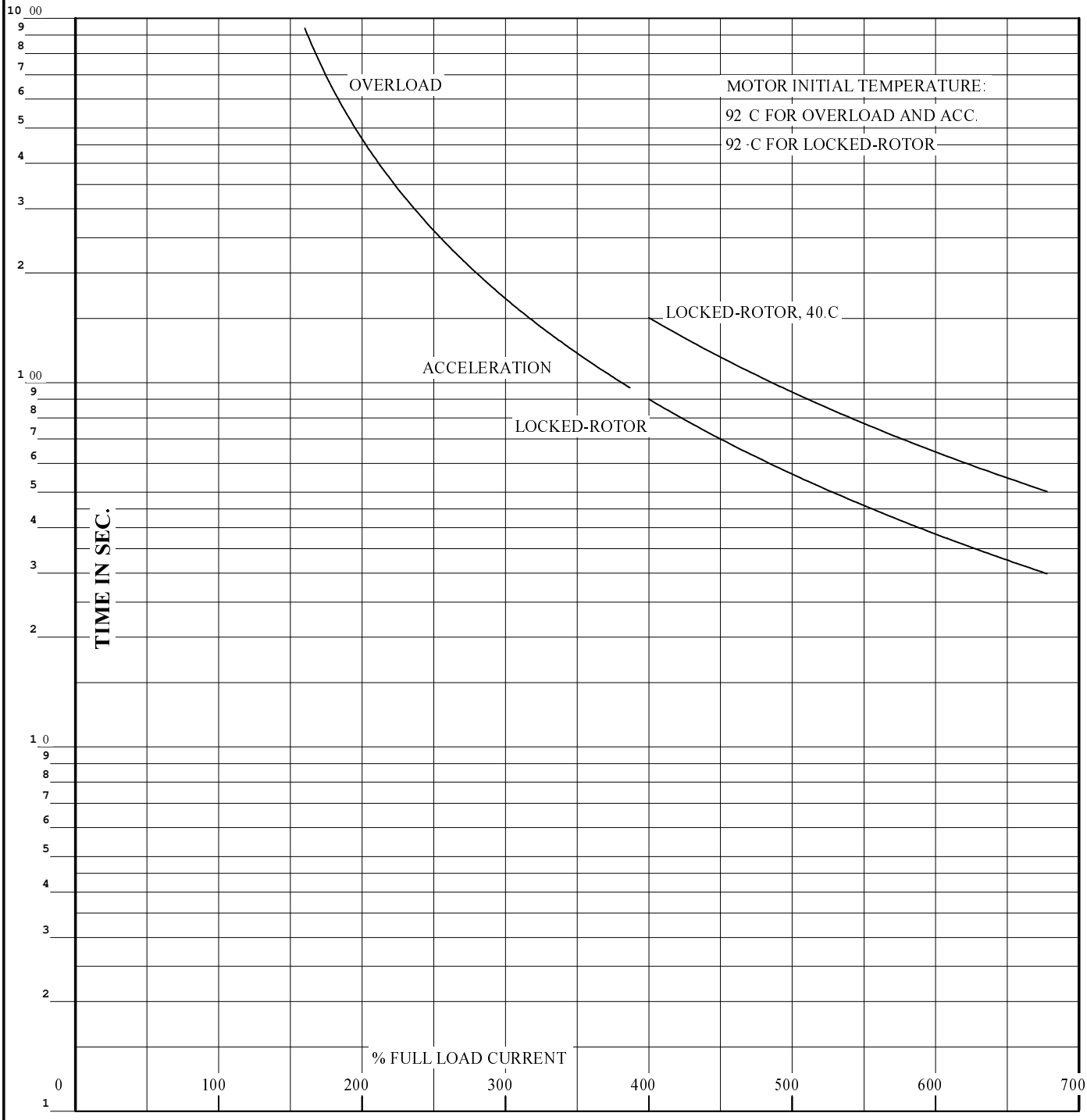
DR. BY J.E.SUMRELL
CK. BY D.M.BYRD
APP. BY D.M.BYRD
DATE 10/29/91

A-C MOTOR PERFORMANCE CURVES

A40WG0108-R001

ISSUE DATE 12/15/10

REL. S.O.	RPM 1185	S.F. 1.15	ROTOR 418142-71EE
FRAME 404T	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 60	AMPS 138/69	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0270/.108
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 595762	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.0 %

GUARANTEED MIN. EFF. 94.5%

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

BALDOR

DR. BY	J.E.SUMRELL
CK. BY	D.M.BYRD
APP. BY	D.M.BYRD
DATE	10/29/91

A-C MOTOR PERFORMANCE CURVES A40WG0108-R001 ISSUE DATE 12/15/10

DUTY MASTER ALTERNATING CURRENT MOTORS

617429-629

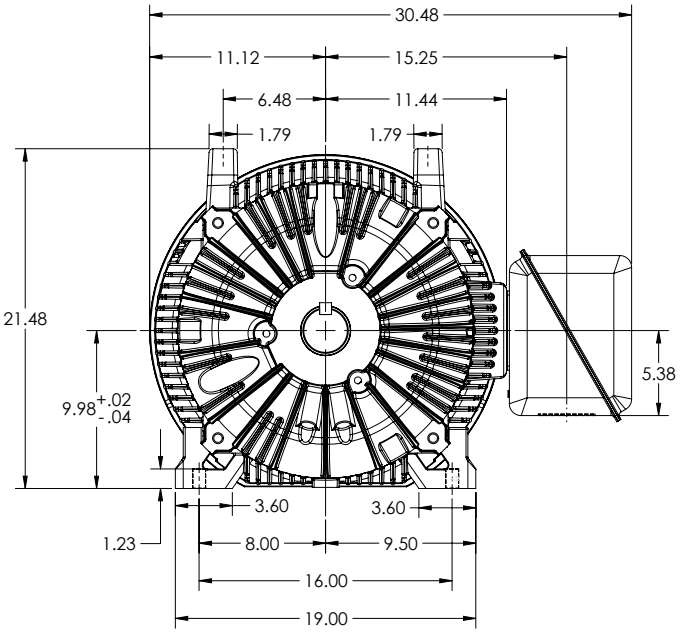
ENCLOSURE: TOTALLY ENCLOSED

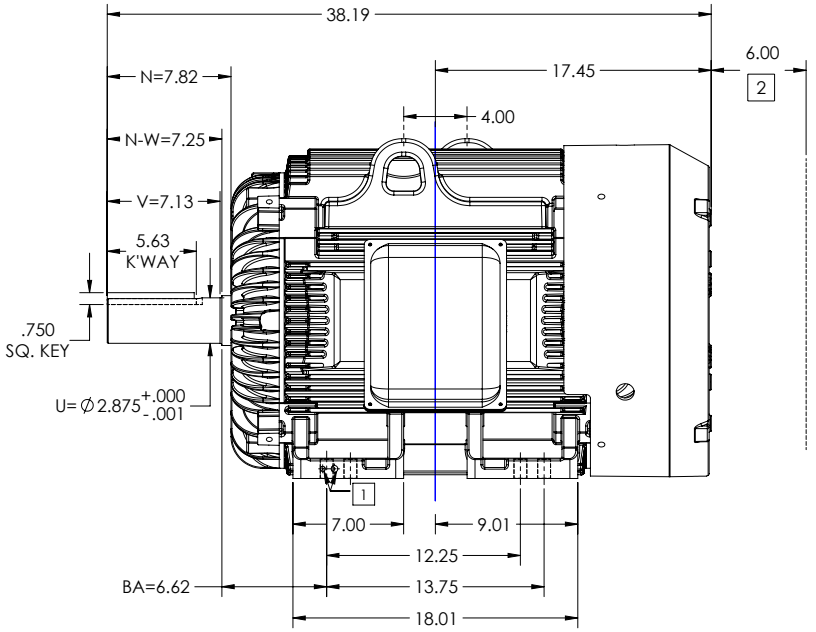
SQUIRREL-CAGE INDUCTION

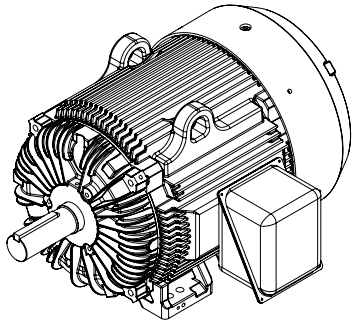
MOUNTING: FOOT, F-2

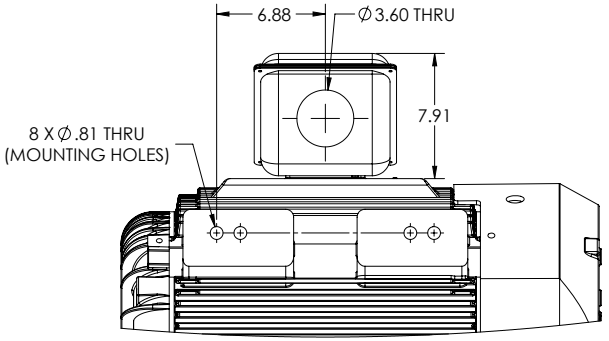
G405T/G404T FRAME MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN INCHES
WEIGHT (LBS): 1350, 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 1

617429-629

1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. 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: UPDATED DS			
REV: A	VERSION: 01	REVISED: 10:32:51 10/25/2016	TDR: 000001000817
MODEL NO. 617429-629			REF:
BY: USJEDIL	Material:		C

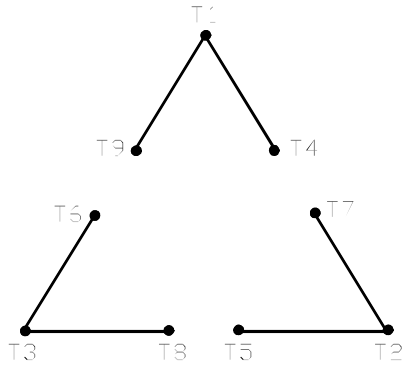
BALDOR

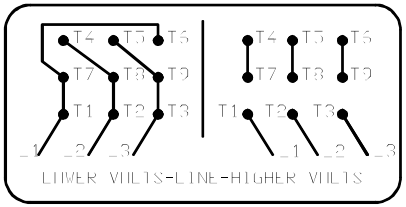
G405T/404T TEFC F2 FOOTED STD ENCLOSURE W/ STEEL BOX

617429-629

416820–002

A–C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA–CONNECTED





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REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
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BALDOR - RELIANCE®

CONN DIAG – STANDARD 9 LEAD, DELTA–CONNECTED

SH 1 of 1