ABB BALDOR RELIANCE

Customer information packet

ECP4404T-5

75HP, 1185RPM, 3PH, 60HZ, 405T, TEFC, F1
Class - None
Division - Division II

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/16/2026 3:36:14 PM

Specifications

Enclosure	TEFC
Frame	405T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	70.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	70.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0771
Layout	617429-240
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	10-01-2019

Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	38.19 IN
Power Factor	85
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	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL POLYREX EM

000901002AAA
IP55 CONSTRUCTION

NP3238												
CAT NO	ECP4404T-5	**SPEC NO.**	A40-7188-0771									
HP	75	**AMPS**	70.2	**VOLTS**	575	**DESIGN**	B					
FRAME	405T	**RPM**	1185	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	6316	**O.D.E. BRG.DATA**	6316	**PH**	3	**DUTY**	CONT	**INSUL.CLASS**	F			
D.E. BRG.	80BC03J30X	**TYPE**	P	**ENCL**	TEFC	**CODE**	G					
O.D.E. BRG.	80BC03J30X	**POWER FACTOR**	85	**NEMA NOM EFFICIENCY**	94.5							
3/4 LOAD EFF.	94.7	**MAX CORR KVAR**	15.0	**GUARANTEED EFFICIENCY**	93.6							
TEMP CODE	T3	**TEMP =**	200									
CHP HZ	60-90	**CT HZ**	10-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.		**MOTOR WEIGHT**										

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405LP	75	P	3/60	1185	575

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
496235	418142-71-EE	---	---	.128

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	26.0	1200	4.71	0
1/4	18.8	30.8	1197	50.0	91.3
2/4	37.5	41.5	1193	71.9	94.3
3/4	56.2	54.9	1190	80.9	94.7
4/4	75.0	70.2	1186	84.7	94.5
5/4	93.8	86.9	1182	86.0	94.0

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	172	571	444
PULL UP	400	164	544	418
BREAKDOWN	1128	251	833	250
FULL LOAD	1186	100	332	70.2

AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

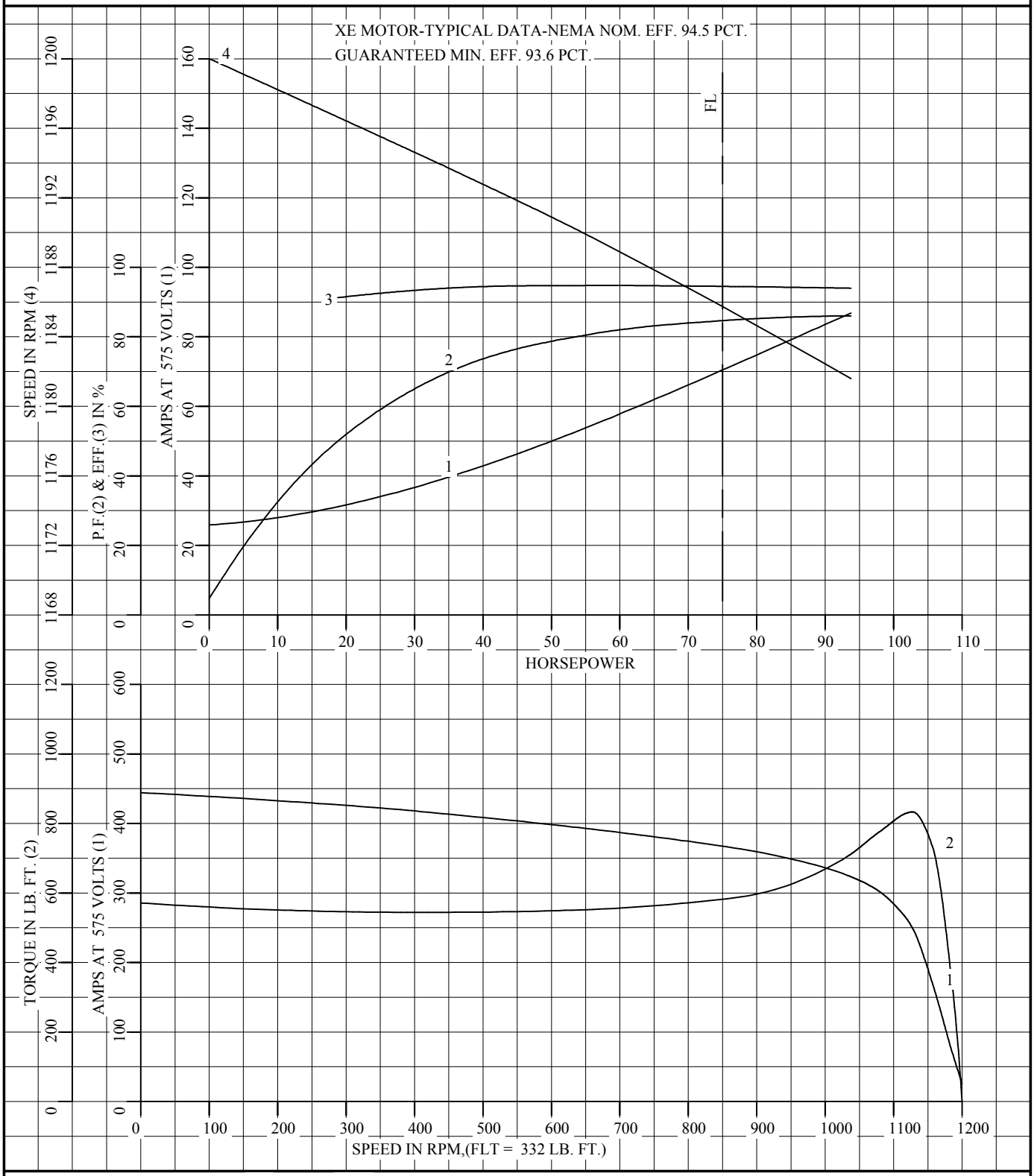
REMARKS: TYPICAL DATA
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 94.5 PCT.
GUARANTEED MIN. EFF. 93.6 PCT.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY B.R.PENDLEY
CK. BY D.M. BYRD
APP. BY E.J.CHRISTIAN
DATE 04/08/11

A-C MOTOR PERFORMANCE DATA A40WG0771-R012
ISSUE DATE 05/11/20

REL S.O.		RPM	1185	S.F.	1.15	ROTOR	418142-71-EE
FRAME	405LP	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	75	AMPS	70.2	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.128
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	496235		OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

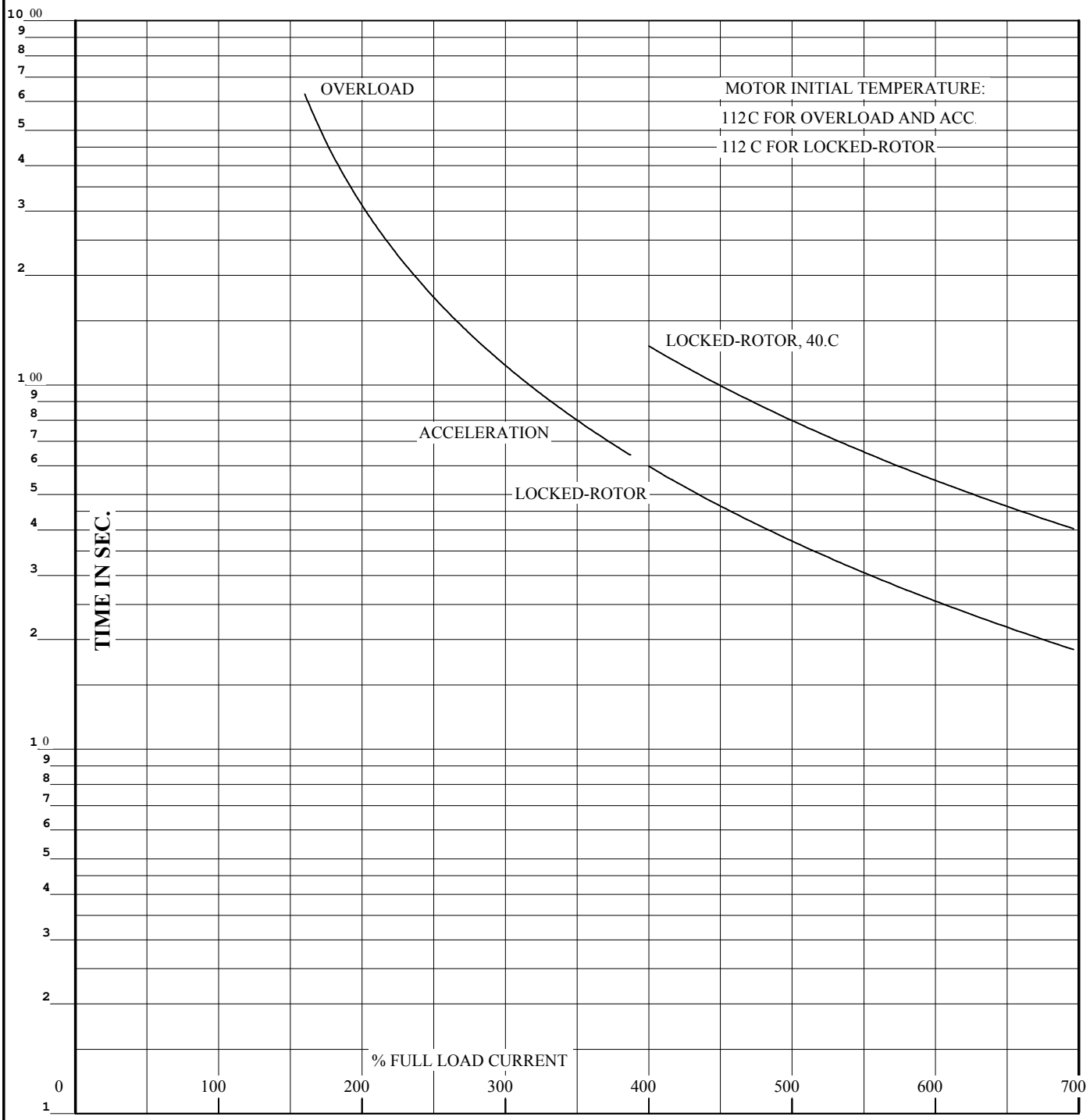
DR. BY	B.R.PENDLEY
CK. BY	D.M. BYRD
APP. BY	E.J.CHRISTIAN
DATE	04/08/11

A-C MOTOR PERFORMANCE CURVES

A40WG0771-R012

ISSUE DATE 05/11/20

REL. S.O.	RPM 1185	S.F. 1.15	ROTOR 418142-71-EE
FRAME 405LP	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 70.2	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.128
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 496235	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 94.5 PCT.

GUARANTEED MIN. EFF. 93.6 PCT.

AMPERES SHOWN FOR 575 **VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.**

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

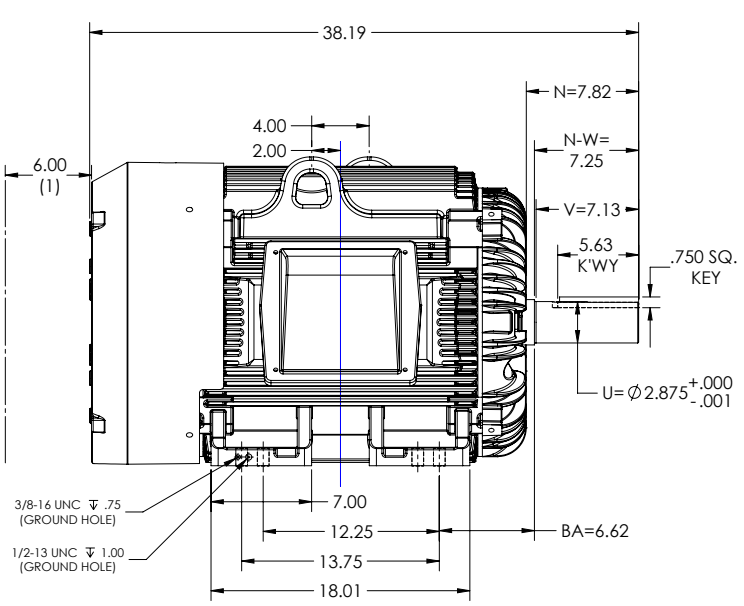
617429-240

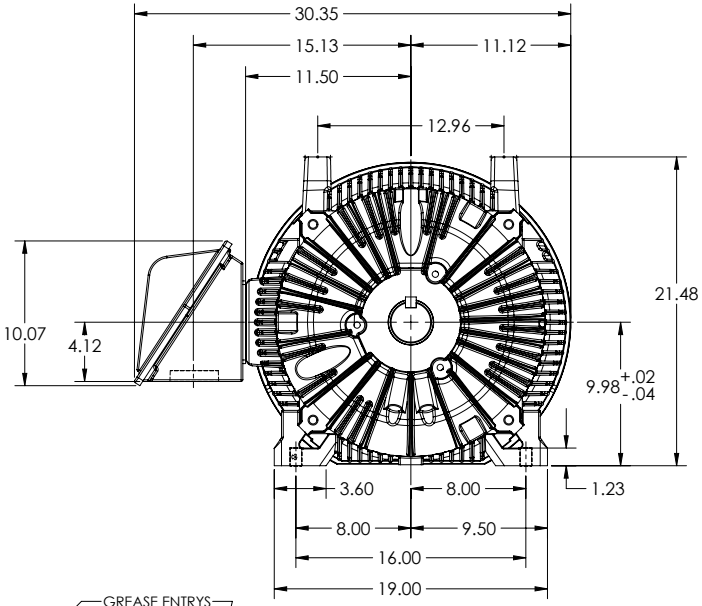
ENCLOSURE: TOTALLY ENCLOSED

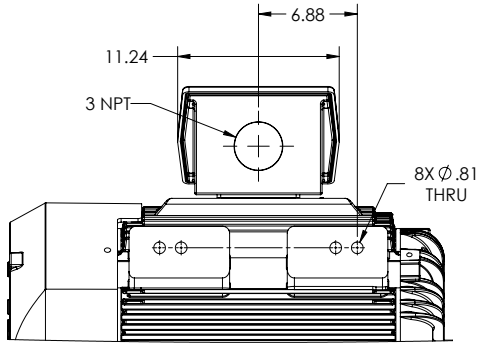
COOLING: FAN COOLED

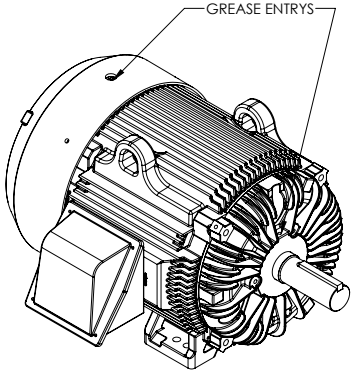
MOUNTING: FOOT, F1

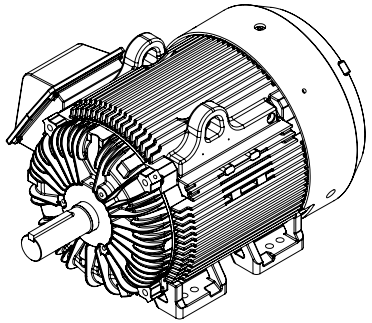
FRAME G405T
INCLUDES G404T FRAME MOUNTING HOLES











DIMENSIONS ARE IN INCHES
MOTOR WEIGHT: 1350 LBS - MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

(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.

SHEET NUMBER 1 OF 1

617429-240

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 09:58:52 02/10/2016	TDR: 000000964494
MODEL NO. 617429-240			REF:
BY: RAGRA	Material:		C

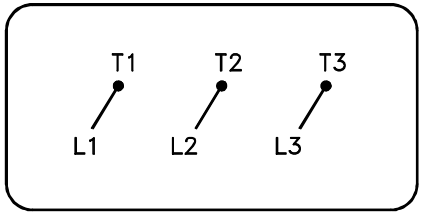
BALDOR

G405/4T TEFC F1 - FT - STD C1 C/BOX

617429-240

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