ABB BALDOR RELIANCE

Customer information packet

ECTM4404T-5G

75HP, 1185RPM, 3PH, 60HZ, 405T, A40064M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	405T
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	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)
Current @ Voltage	69.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	69.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0771
Layout	617433-750
Eff. date	06-06-2023
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	04-13-2022

Number of Poles	6
Overall Length	38.19 IN
Power Factor	85
Product Family	Cooling Tower
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	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

000613007EW												
CAT.NO.	ECTM4404T-5G			**SPEC NO.**	A40-7198-0771							
HP	75HP	**AMPS**	69.5		**VOLTS**	575		**DESIGN**	B			
FRAME	405T	**RPM**	1185		**HZ**	60	**AMB**	40	**SF**	1.15		
DRIVE END BEARING	80BC03J30X		**PH**	3	**DUTY**	CONT		**INSUL.CLASS**	F			
OPP D.E. BEARING	80BC03J30X		**TYPE**	P	**ENCL**	TEFC	**CODE**	G				
D.E.BRG.DATA	6316			**POWER FACTOR**	85			**NEMA NOM EFFICIENCY**	95			
O.D.E.BRG.DATA	6316			**MAX CORR KVAR**	15.00			**GUARANTEED EFFICIENCY**	94.1			
3/4 LOAD EFF.	95			**NEMA NOM/CSA QUOTED EFF**								
SER.NO.				**MOTOR WEIGHT**								

000901002AAA
INV DUTY 20:1 VT

REL. S.O.	FRAME	KW	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405HP	55.9	P	3/60	1185	575

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
69.5	CONT	40/F	1.15	B	G	TEFC-841

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
496235	418142-71-EE	---	---	.134

PERFORMANCE

LOAD	KW	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	24.8	1200	4.11	0
1/4	14.0	29.7	1197	51.1	92.5
2/4	28.0	40.6	1194	73.0	95.0
3/4	41.9	54.2	1190	81.6	95.3
4/4	56.0	69.5	1187	85.1	95.0
5/4	69.9	86.3	1183	86.2	94.4

SPEED TORQUE

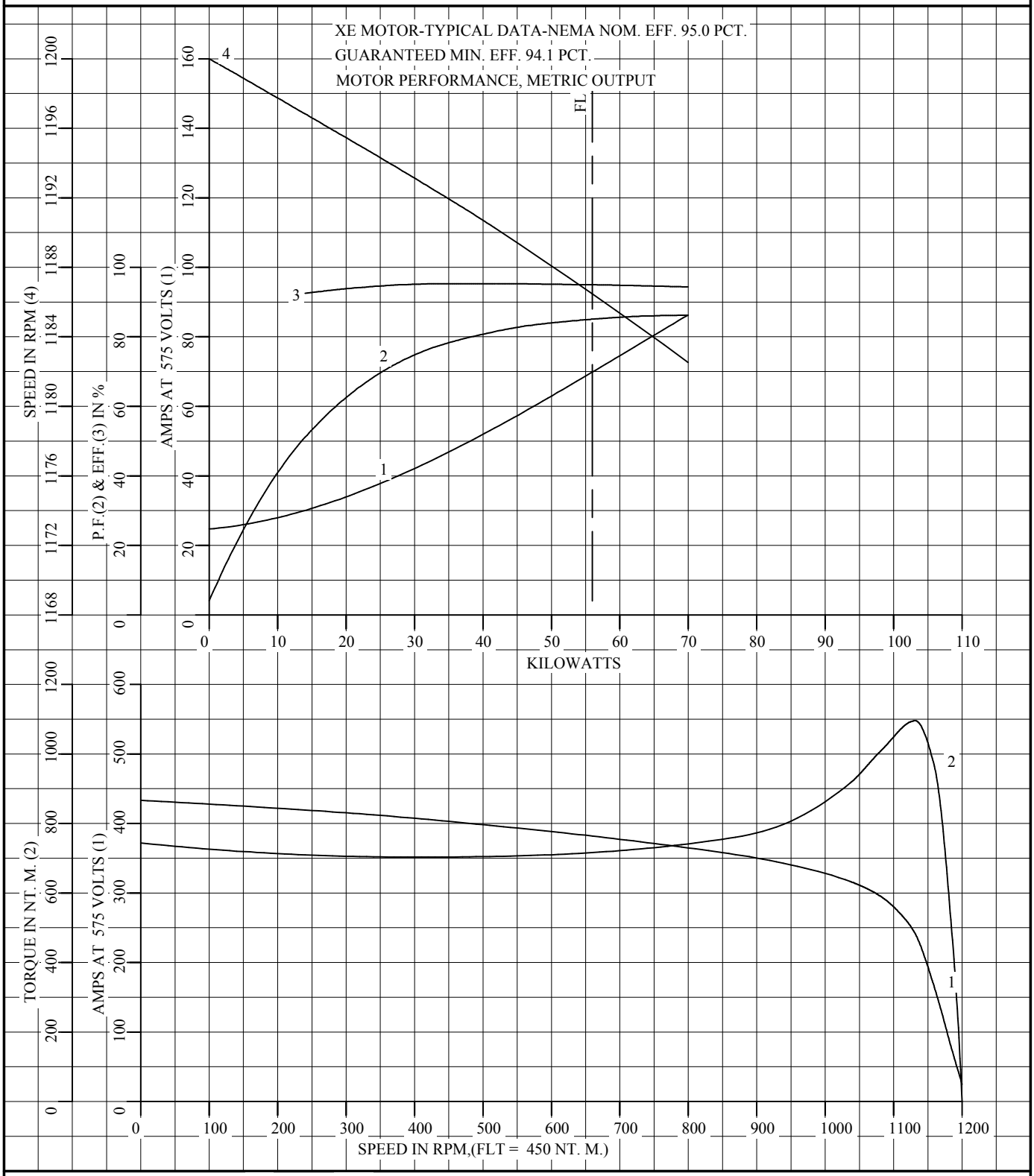
	RPM	TORQUE % FULL LOAD	TORQUE NT.-M.	AMPERES
LOCKED ROTOR	0	165	744	433
PULL UP	400	156	703	408
BREAKDOWN	1132	243	1096	241
FULL LOAD	1187	100	450	69.5

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

TYPICAL DATA

REMARKS: MOTOR PERFORMANCE, METRIC OUTPUT
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.
GUARANTEED MIN. EFF. 94.1 PCT.

REL S.O.		RPM	1185	S.F.	1.15	ROTOR	418142-71-EE
FRAME	405HP	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
KW	55.9	AMPS	69.5	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC-841	STATOR RES.@ 25 °C	.134
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

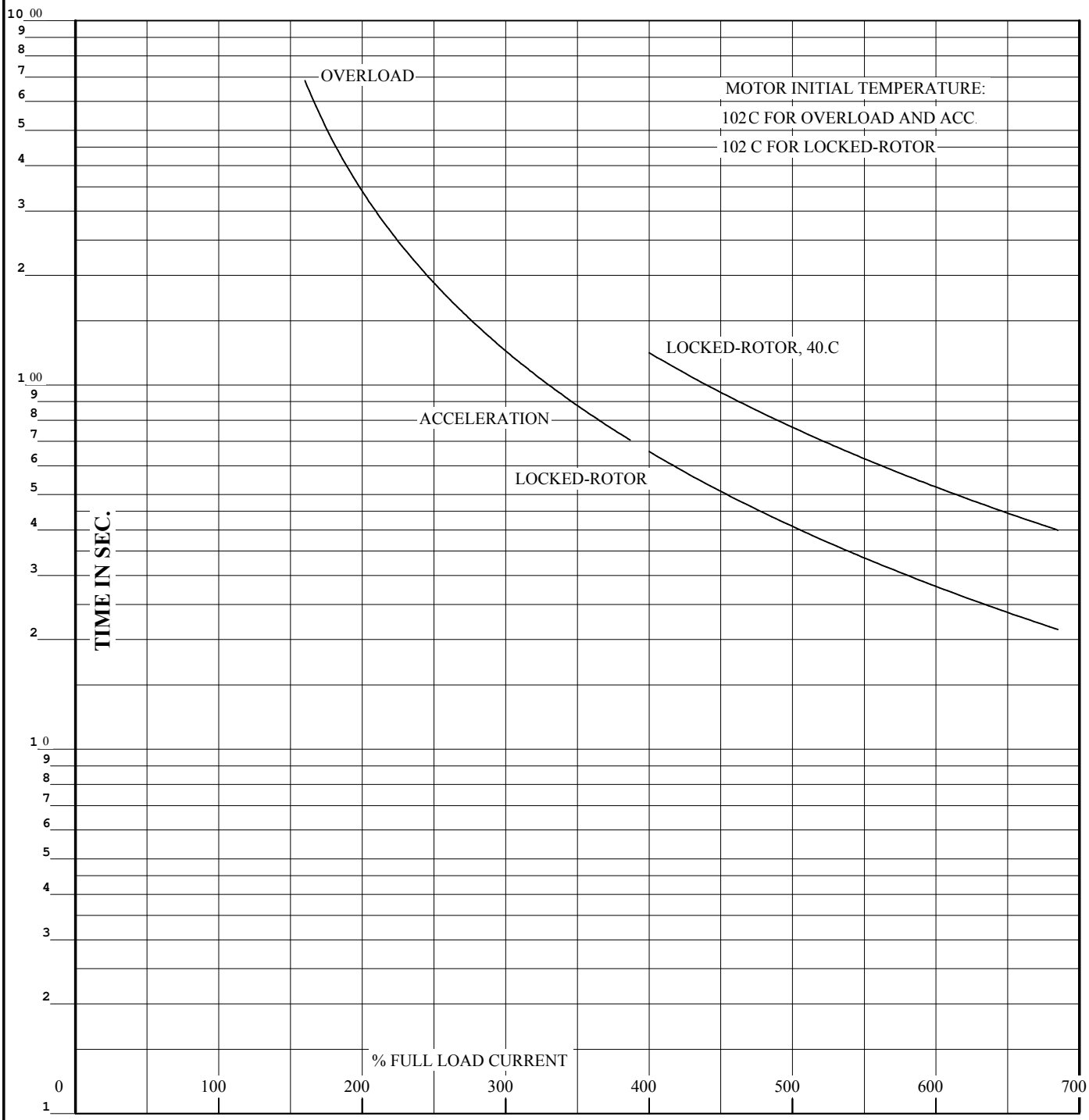
DR. BY	G.. R. WEBB
CK. BY	W. L. SMITH
APP. BY	W. L. SMITH
DATE	10/15/14

A-C MOTOR PERFORMANCE CURVES

A40WG0771-R008

ISSUE DATE 11/04/14

REL. S.O.		RPM	1185	S.F.	1.15	ROTOR	418142-71-EE
FRAME	405HP	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
KW	55.9	AMPS	69.5	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC-841	STATOR RES.@ 25 °C	.134
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	496235	OHMS (BETWEEN LINES)	



REMARKS:

THERMAL LIMIT CURVE

XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.

GUARANTEED MIN. EFF. 94.1 PCT.

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

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DR. BY	G.. R. WEBB
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A-C MOTOR PERFORMANCE CURVES

A40WG0771-R008

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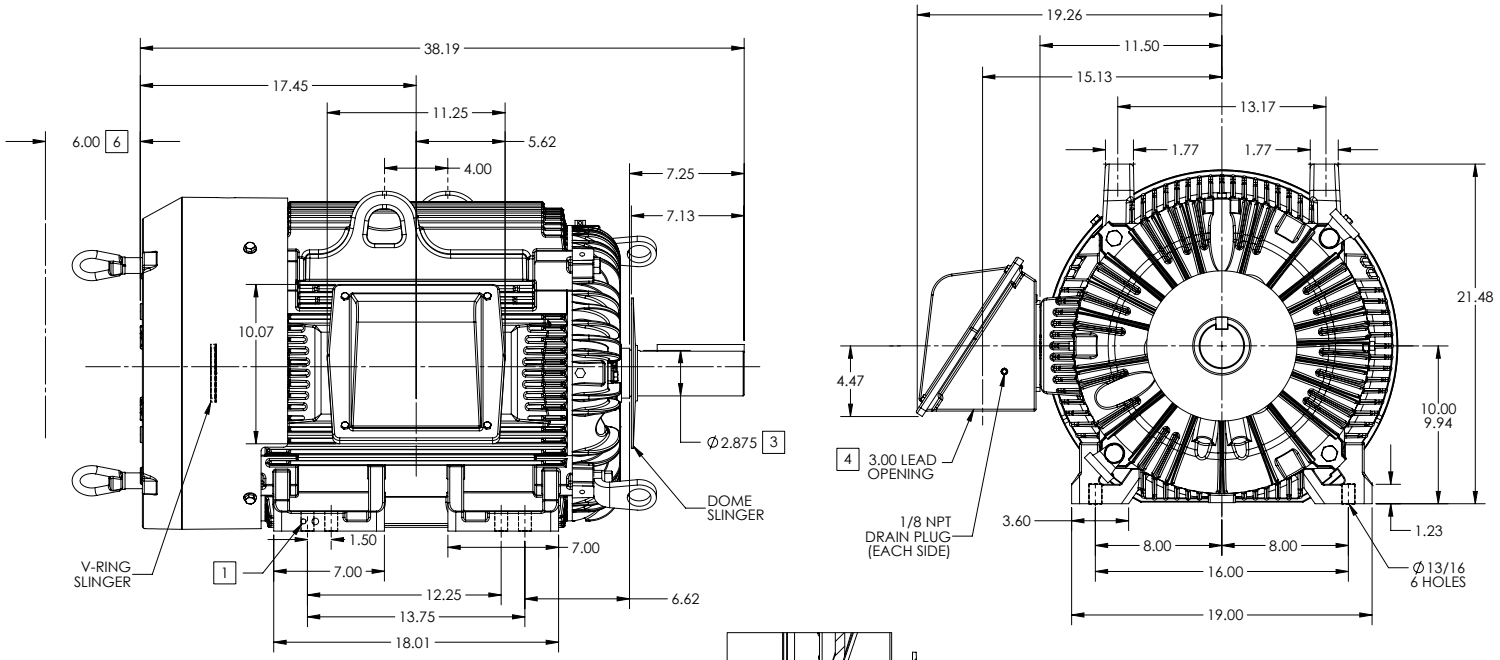
617433-750

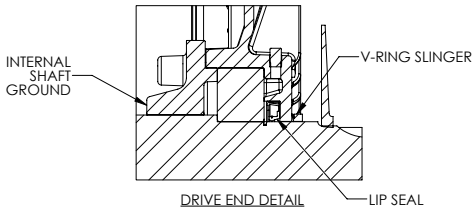
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED | FRAME G405T ABOVE NEMA RATINGS | COOLING: FAN COOLED

MOUNTING: FOOT | INCLUDES 404T FRAME MOUNTING HOLES | STANDARD INDUSTRIAL ENCLOSURE





DRIVE END DETAIL

1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.000,-.001
3. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
4. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

5 WEIGHT (LBS): 1350

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-1.
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.

DIMENSIONS ARE IN INCHES

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

SHEET NUMBER 1 OF 1

617433-750

REV. DESC: NEW			
REV: -	VERSION: 00	REVISED: 02:16:38 04/26/2022	TDR: 000001187873
MODEL NO. 617433-750			REF:
BY: USBUFRA	Material:		C

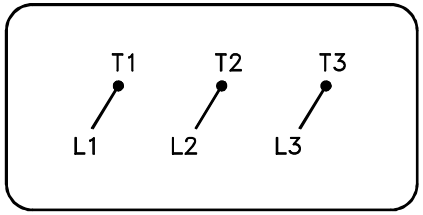
BALDOR

G405T/404T STD – FOOTED – STD ENCL F1 LIPSEAL/V-SLG D.E.

617433-750

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