ABB BALDOR RELIANCE

Customer information packet

XT3756T

75HP, 1185RPM, 3PH, 60HZ, 405T, A40064M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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11/5/2026 2:14:49 PM

Specifications

Enclosure	TEFC
Frame	405T
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	75.000 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	CCSAUSEEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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	87.000 A @ 460.0 V
	174.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	87.0 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0770
Layout	617429-001
Eff. date	07-08-2024
CD Diagram	416820-002
Poles	06
Leads	3#2,6#4
Proprietary	False
Created date	08-12-2020

Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
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

NP4152LUA

CAT #	XT3756T			**SER**				**CC**	010A										
SPEC	A40-7213-0770			**RATING**	40C AMB-CONT														
HZ	**VOLTS**		**AMPS**		**RPM**	**HP**	**CODE**	**SF**	**DES**	**PF**	**NEMA NOM. EFF**								
60	230/460		174/87		1185	75	G	1.15	B	85	%	94.5	%						
											%		%						
PH	3	**CL**	F	**MAX RPM**	2700		**MAX CORR KVAR**	15											
BRG	**DE**	6316	**ODE**	6316	**ENCL**	TEFC	**FR**	405T	**IP**	54									
GREASE	POLYREX EM						**MTR WT**		**LBS**										
	CL I DIV 2 GRPS A,B,C,D			**CL I ZONE 2 GRPS**				**IIA,IIB,IIC**		**TEMP T**	200	**C**							
INV READY	**CT**	10-60	**HZ**	6:1	**VT**	0-60	**HZ**	1000:1	**CHP**	60-90	**HZ**	1:1.5							
INV TEMP CL	T3	**C**	**USABLE AT**	50HZ 60HP 190/380V 169/84.5A							1.0SF								

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405TZ	75	P	3/60	1185	230/460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
174/87	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
496234	418142-71-EE	---	---	.0215/.0860

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	31.0	1200	4.76	0
1/4	18.8	37.3	1197	51.5	91.5
2/4	37.5	50.8	1193	73.2	94.4
3/4	56.2	67.8	1190	81.8	94.9
4/4	75.0	87.0	1186	85.3	94.6
5/4	93.8	108	1182	86.4	94.1

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	166	552	537
PULL UP	400	158	524	506
BREAKDOWN	1128	243	808	302
FULL LOAD	1186	100	332	87.0

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-TYPICAL DATA-NEMA NOM EFF 94.5 PCT
GUARANTEED MIN EFF. 93.6 PCT

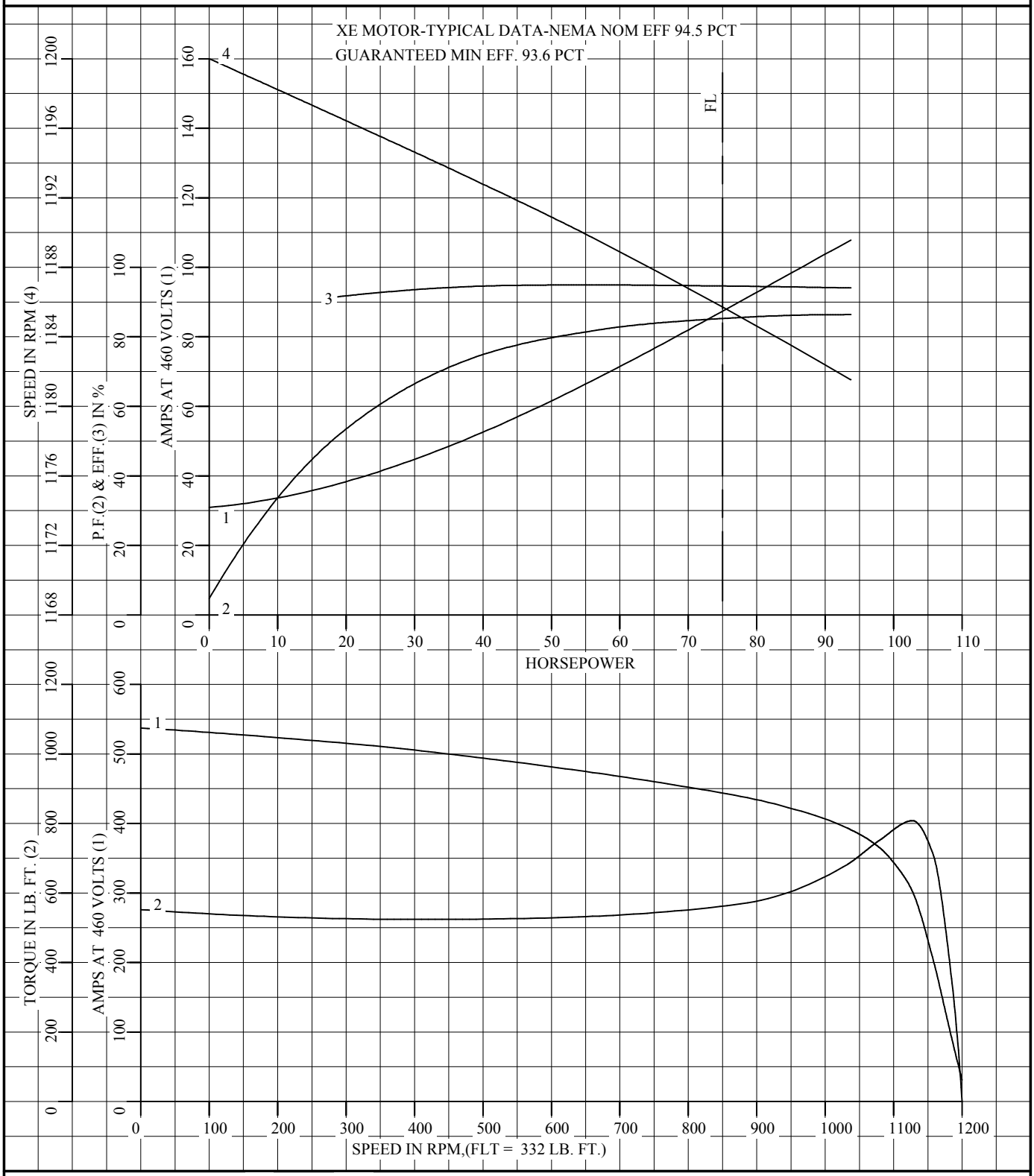
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY C.E. JAMISON
CK. BY W.L. SMITH
APP. BY C.E. JAMISON
DATE 11/04/16

A-C MOTOR PERFORMANCE DATA

A40WG0770-R015
ISSUE DATE 03/29/21

REL S.O.	RPM 1185	S.F. 1.15	ROTOR 418142-71-EE
FRAME 405TZ	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 174/87	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0215/.0860
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 496234	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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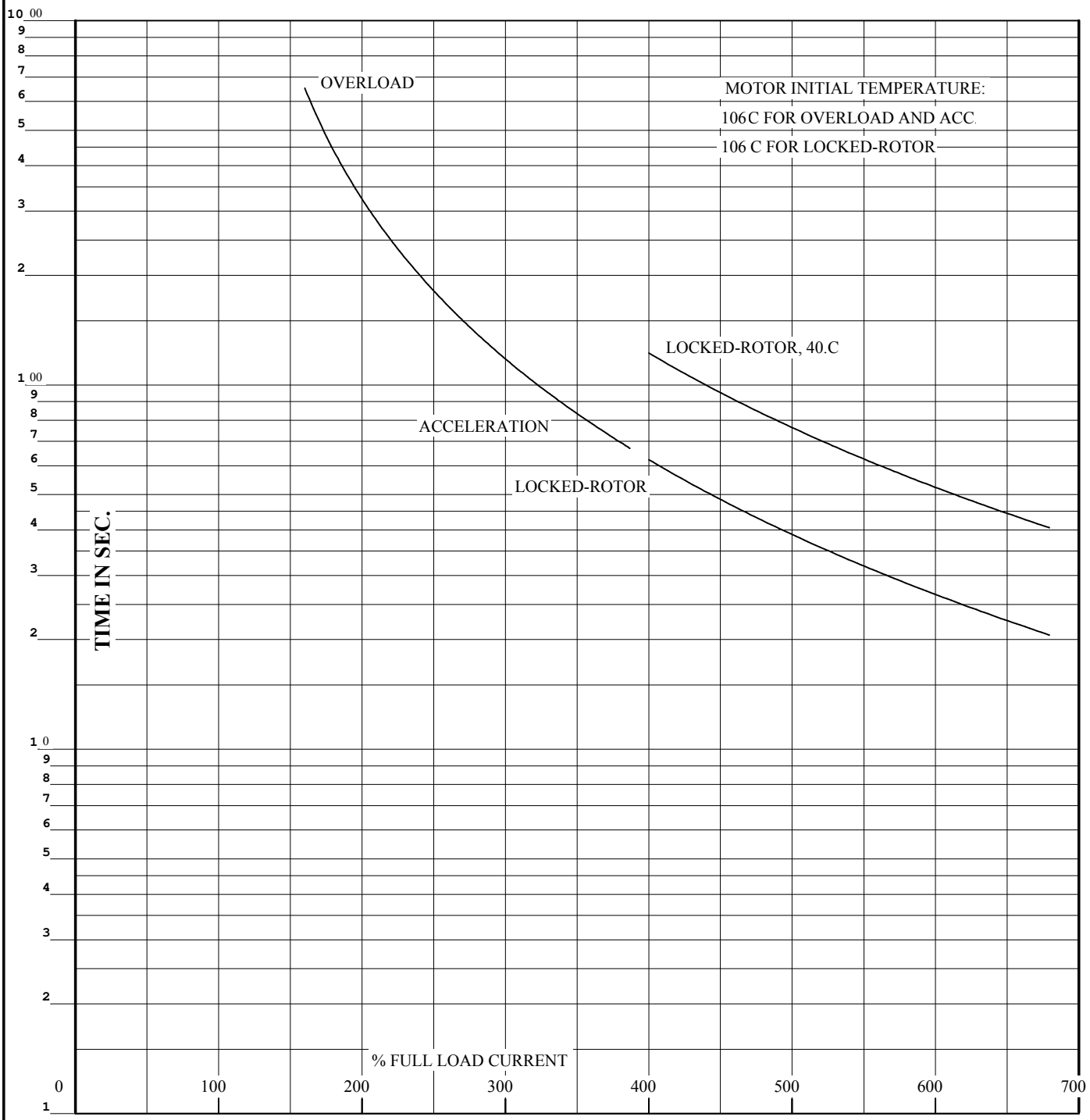
DR. BY	C.E. JAMISON
CK. BY	W.L. SMITH
APP. BY	C.E. JAMISON
DATE	11/04/16

A-C MOTOR PERFORMANCE CURVES

A40WG0770-R015

ISSUE DATE 03/29/21

REL. S.O.	RPM 1185	S.F. 1.15	ROTOR 418142-71-EE
FRAME 405TZ	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 174/87	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0215/.0860
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 496234	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 460 **VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.**

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DR. BY	C.E. JAMISON
CK. BY	W.L. SMITH
APP. BY	C.E. JAMISON
DATE	11/04/16

A-C MOTOR PERFORMANCE CURVES **A40WG0770-R015**

ISSUE DATE 03/29/21

DUTY MASTER ALTERNATING CURRENT MOTORS

617429-001

ENCLOSURE: TOTALLY ENCLOSED

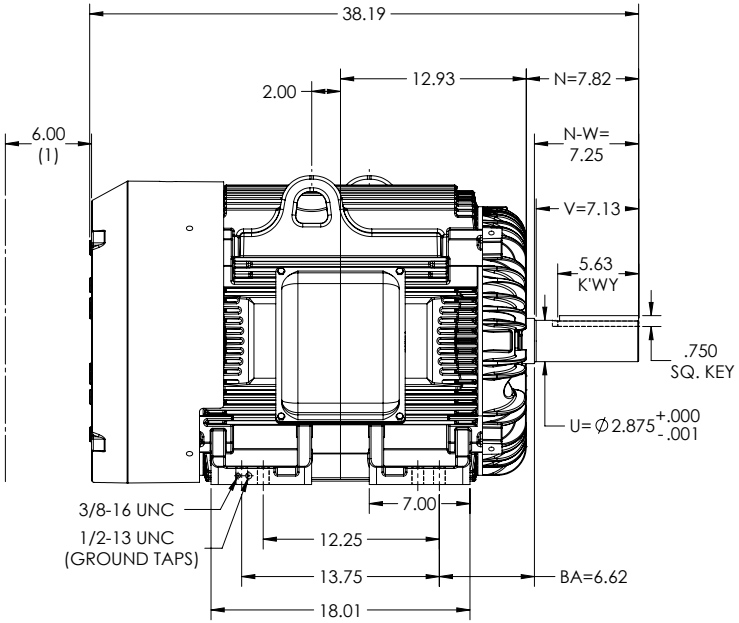
SQUIRREL-CAGE INDUCTION

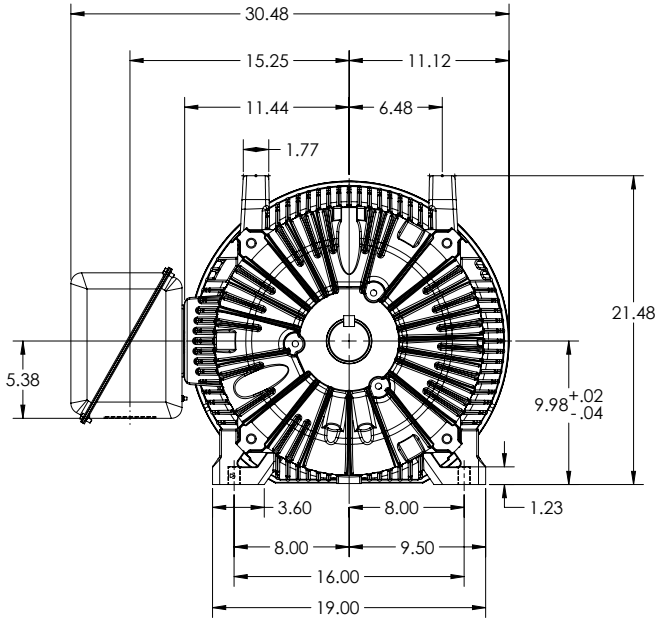
MOUNTING: FOOT, F1

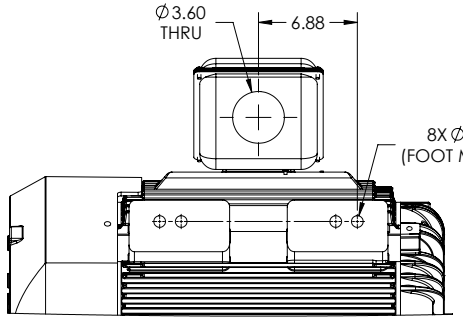
G405T/G404T FRAME MOUNTING HOLES

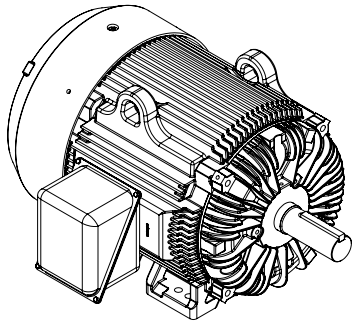
COOLING: FAN COOLED

STEEL CONDUIT BOX









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 2

617429-001

REV. DESC: CHG D.E. BRKT WITHOUT FACE DRAINS			
REV: D	VERSION: 04	REVISED: 11:04:59 03/09/2022	TDR: 000001187401
MODEL NO. 617429-001			REF:
BY: RAGGDM	Material:	C	

BALDOR

G405T/404T STD TEFC F1 FOOTED STEEL CONDUIT BOX

617429-001

DUTY MASTER ALTERNATING CURRENT MOTORS

617429-001

ENCLOSURE: TOTALLY ENCLOSED

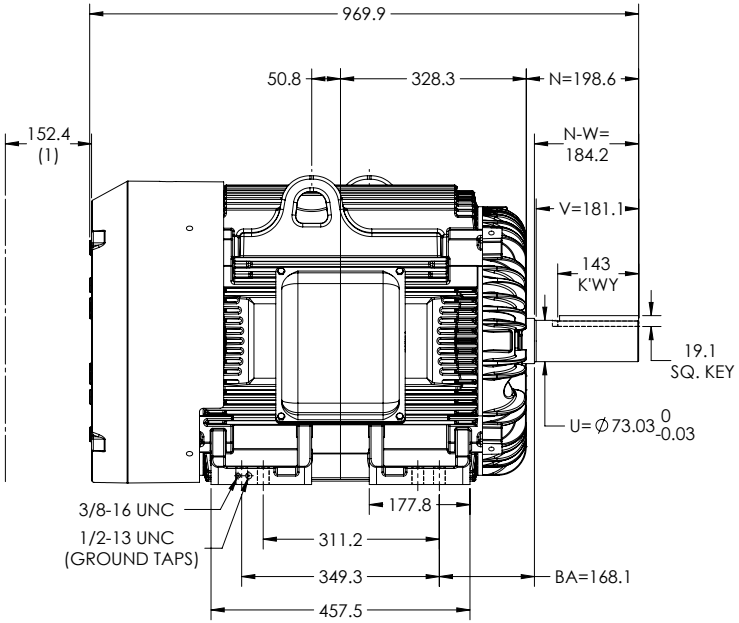
SQUIRREL-CAGE INDUCTION

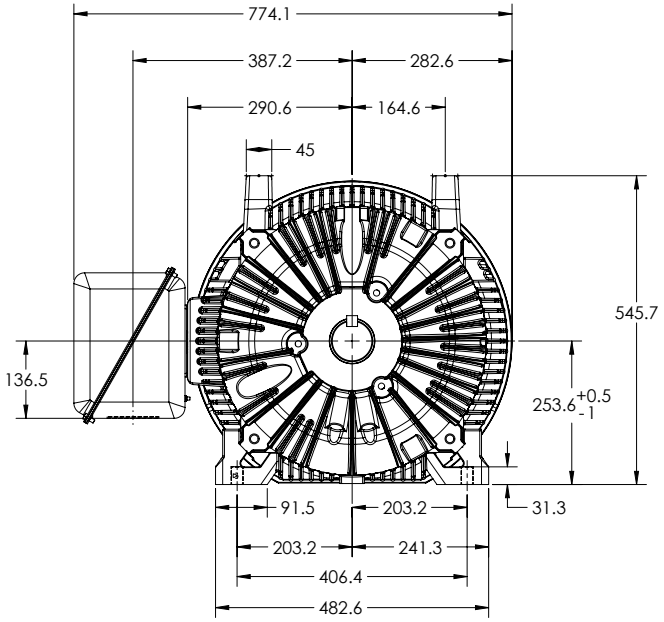
MOUNTING: FOOT, F1

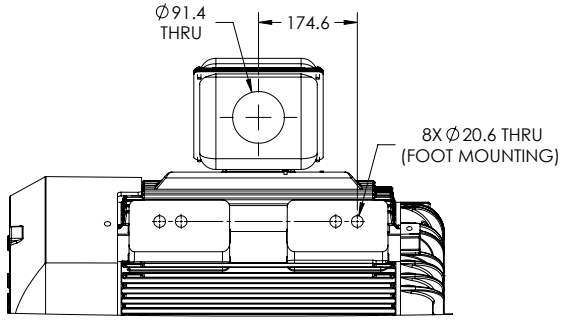
G405T/G404T FRAME MOUNTING HOLES

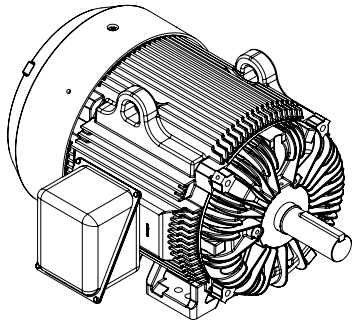
COOLING: FAN COOLED

STEEL CONDUIT BOX









DIMENSIONS ARE IN MILLIMETERS.
MOTOR WEIGHT: 612, 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 .08 T.I.R.

SHEET NUMBER 2 OF 2

617429-001

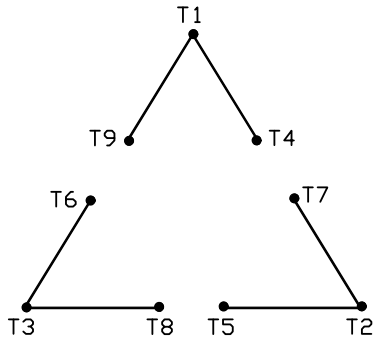
REV. DESC: CHG D.E. BRKT WITHOUT FACE DRAINS			
REV: D	VERSION: 04	REVISED: 11:04:59 03/09/2022	TDR: 000001187401
MODEL NO. 617429-001			REF:
BY: RAGGDM	Material:	C	BALDOR

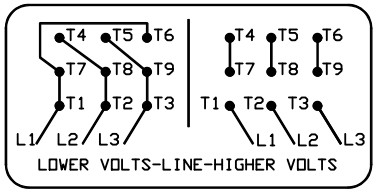
G405T/404T STD TEFC F1 FOOTED STEEL CONDUIT BOX

617429-001

416820-002

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





(N. P. 1575-B)

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002