ABB BALDOR RELIANCE

Customer information packet

DRX44244T

200HP, 1785RPM, 3PH, 60HZ, 447T, TEFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	TEFC
Frame	447T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UL
	CSA
	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	222.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	222.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG0690
Layout	617426-356
Eff. date	05-06-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	03-12-2019

Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44120M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	48.47 IN
Power Factor	87
Product Family	General Industrial
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	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2496L
MOBIL POLYREX EM

000613006PC			
CLASS I GROUP	C D X	**NO.**	
CLASS II GROUP	X X X		
OPERATING TEMP CODE	T3C		

NP3140L											
SPEC NO.	A44-5059-0690			**CAT.NO.**	DRX44244T				**FRAME**	447T	
HP	200	**VOLTS**	460		**PHASE**	3	**DESIGN**	B	**TYPE**	P	
RPM	1785	**AMPS**	222		**HZ**	60	**AMB**	40	**SF**	1.00	
DRIVE END BEARING	90BC03J30X			**DUTY**	CONT		**INSUL.CLASS**	F			
OPP D.E. BEARING	90BC03J30X			**ENCL**	TEFC	**CODE**	G				
SF	1.15	**WK2**	68.32	**MAG CUR**	62.0		**RPM MAX**	3600			
CT HZ	6-60	**VT HZ**	0-60	**CHP HZ**	60-90		**NEMA-NOM-EFF**	96.2			
	SUIT FOR 55C AMB AT 1.00 SF				IP55						
SER.NO.				**MOTOR WEIGHT**							

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447TD	200	P	3/60	1785	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
---	418143052CE	---	---	.0169

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	62.0	1800	4.07	0
1/4	50.0	88.3	1796	56.3	94.3
2/4	100	126	1793	77.4	96.2
3/4	150	172	1789	84.8	96.4
4/4	200	222	1785	87.6	96.2
5/4	250	276	1781	88.4	95.8

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	148	871	1428
PULL UP	540	123	726	1332
BREAKDOWN	1730	268	1579	770
FULL LOAD	1785	100	588	222

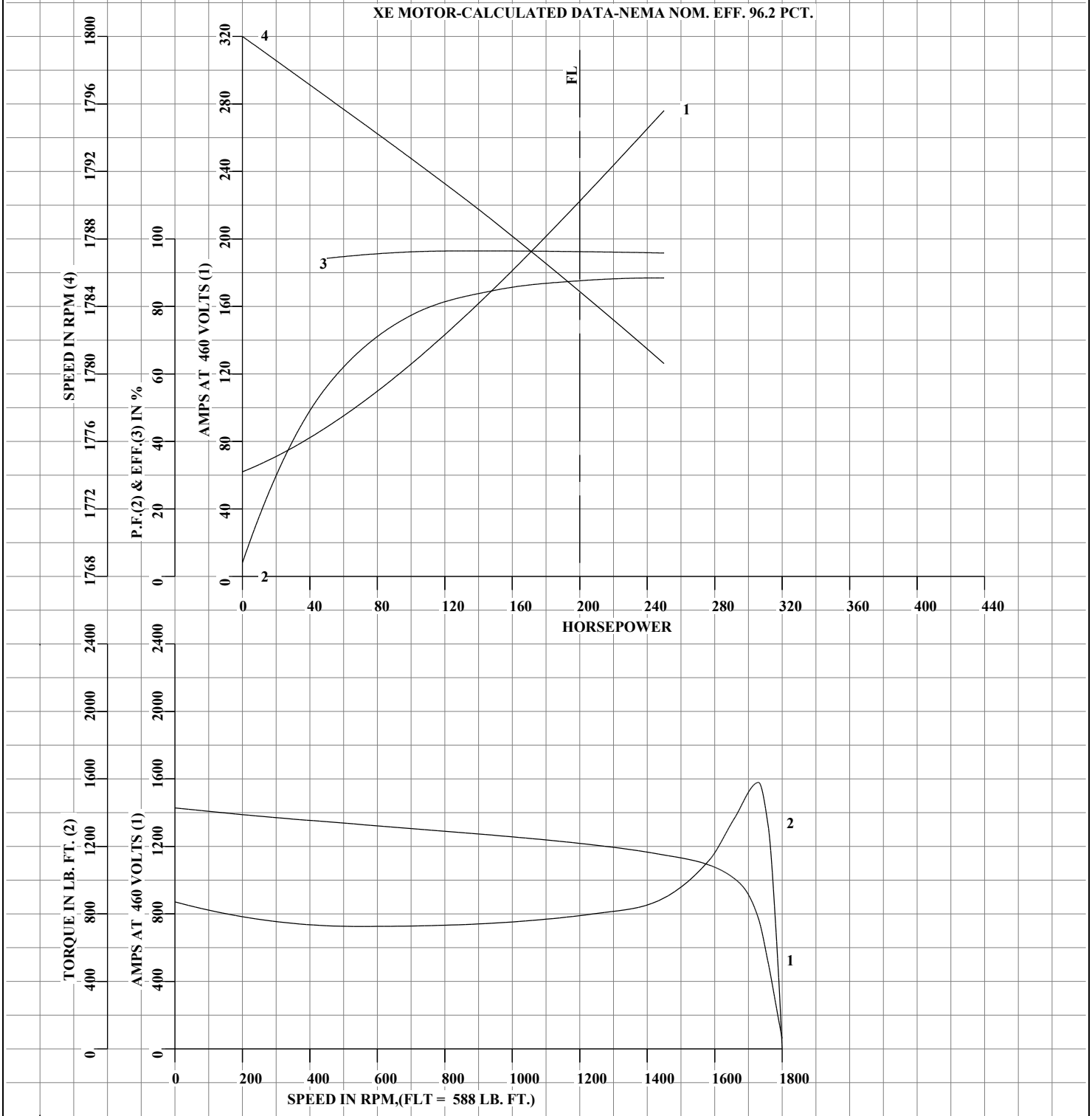
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

TYPICAL DATA
XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 96.2 PCT.

ABB	DRAWN BY: T.G.KELATI CHECKED BY: E.J.CHRISTIAN APPROVED BY: E.J.CHRISTIAN DATE: 07/06/17	AC MOTOR PERFORMANCE DATA	A44WG0690-R001 DATE ISSUED 05/03/21

FRAME 447TD	RPM 1785	S.F. 1.15	ROTOR 418143052CE
HP 200	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 222	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0169
	AMB °C / INSUL 40/F	E/S ---	OHMS (BETWEEN LINES)

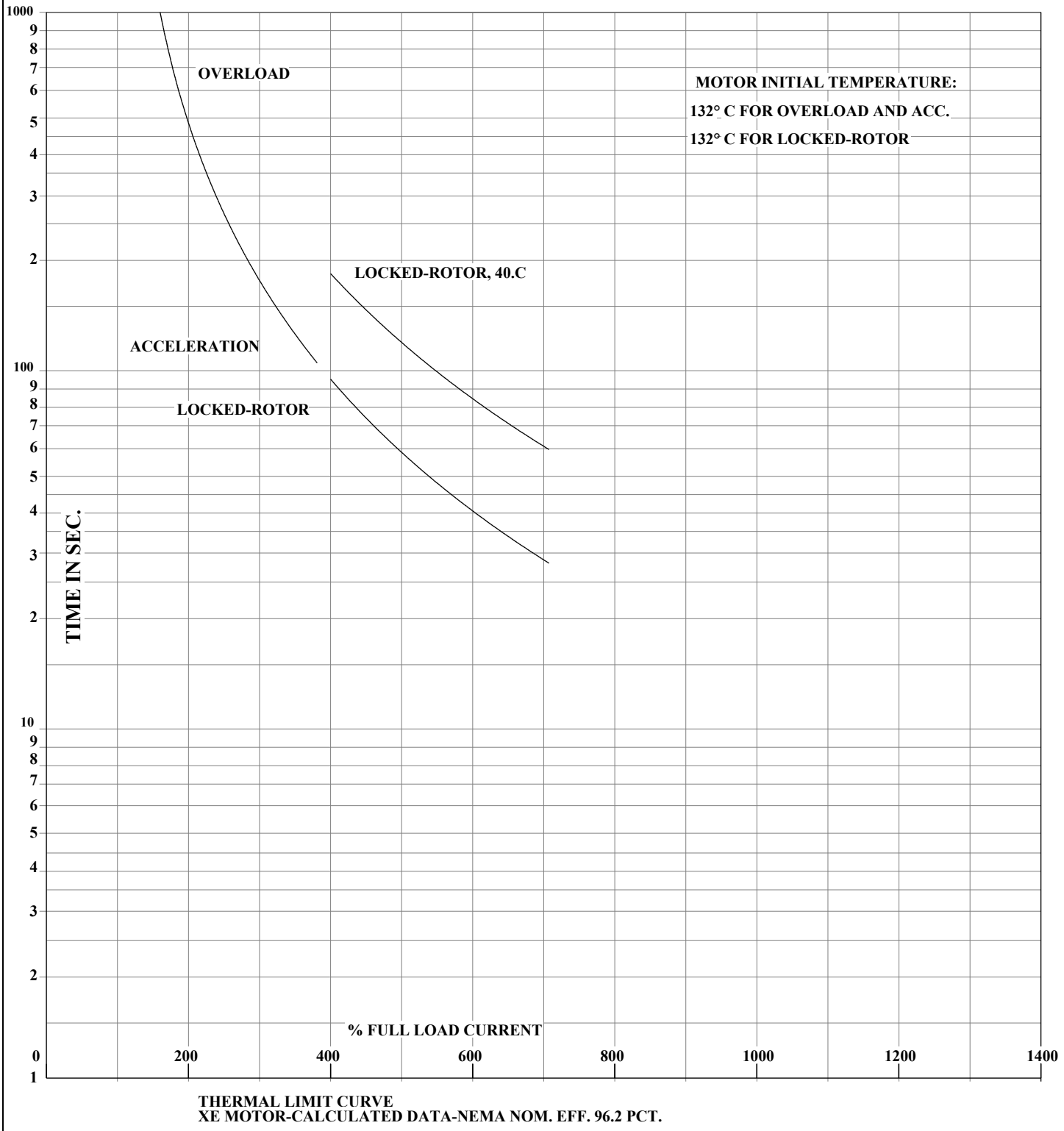
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FRAME 447TD	RPM 1785	S.F. 1.15	ROTOR 4I8143052CE
HP 200	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 222	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0169
	AMB °C / INSUL 40/F	E/S ---	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 96.2 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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DUTY MASTER ALTERNATING CURRENT MOTORS

617426-356

ENCLOSURE: UL LISTED MOTOR

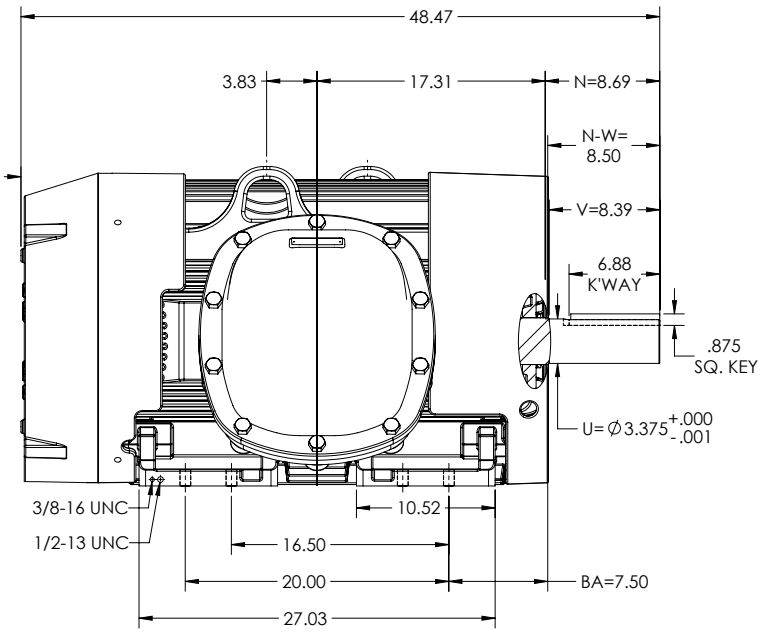
SQUIRREL-CAGE INDUCTION

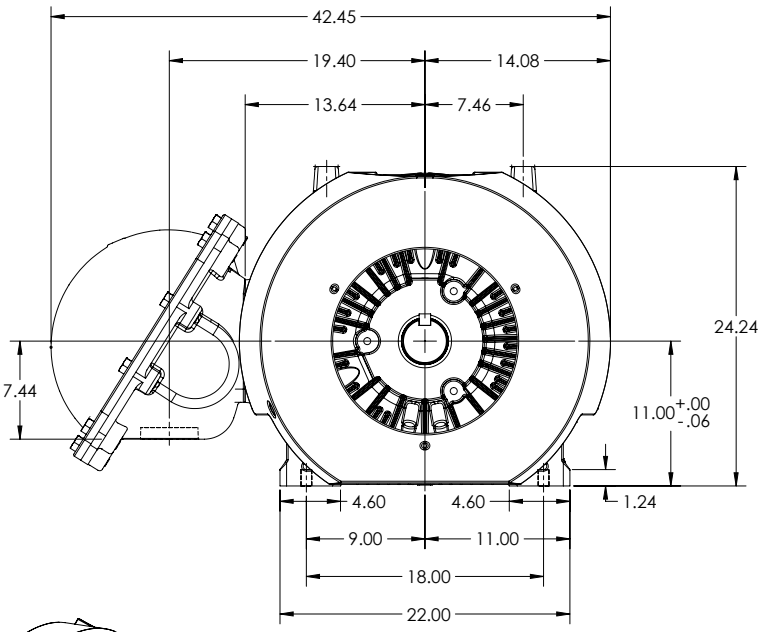
MOUNTING: FOOT, F-1 SIDE

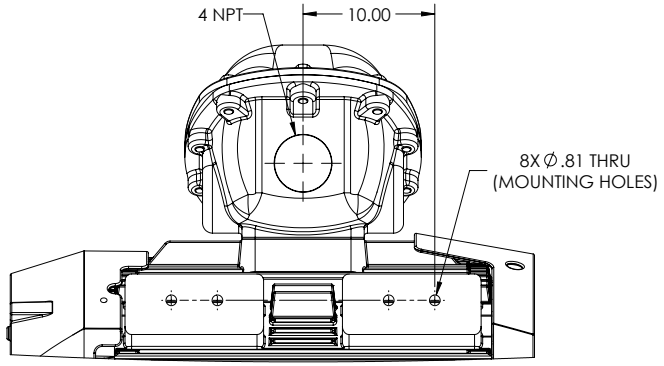
G447T/G445T FRAME MOUNTING HOLES

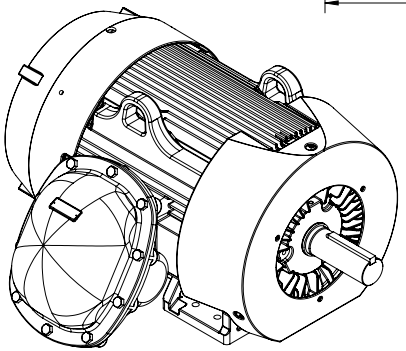
COOLING: FAN COOLED

GROUP C & D









DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 2610. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

1 OBSTRUCTION MUST NO 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.

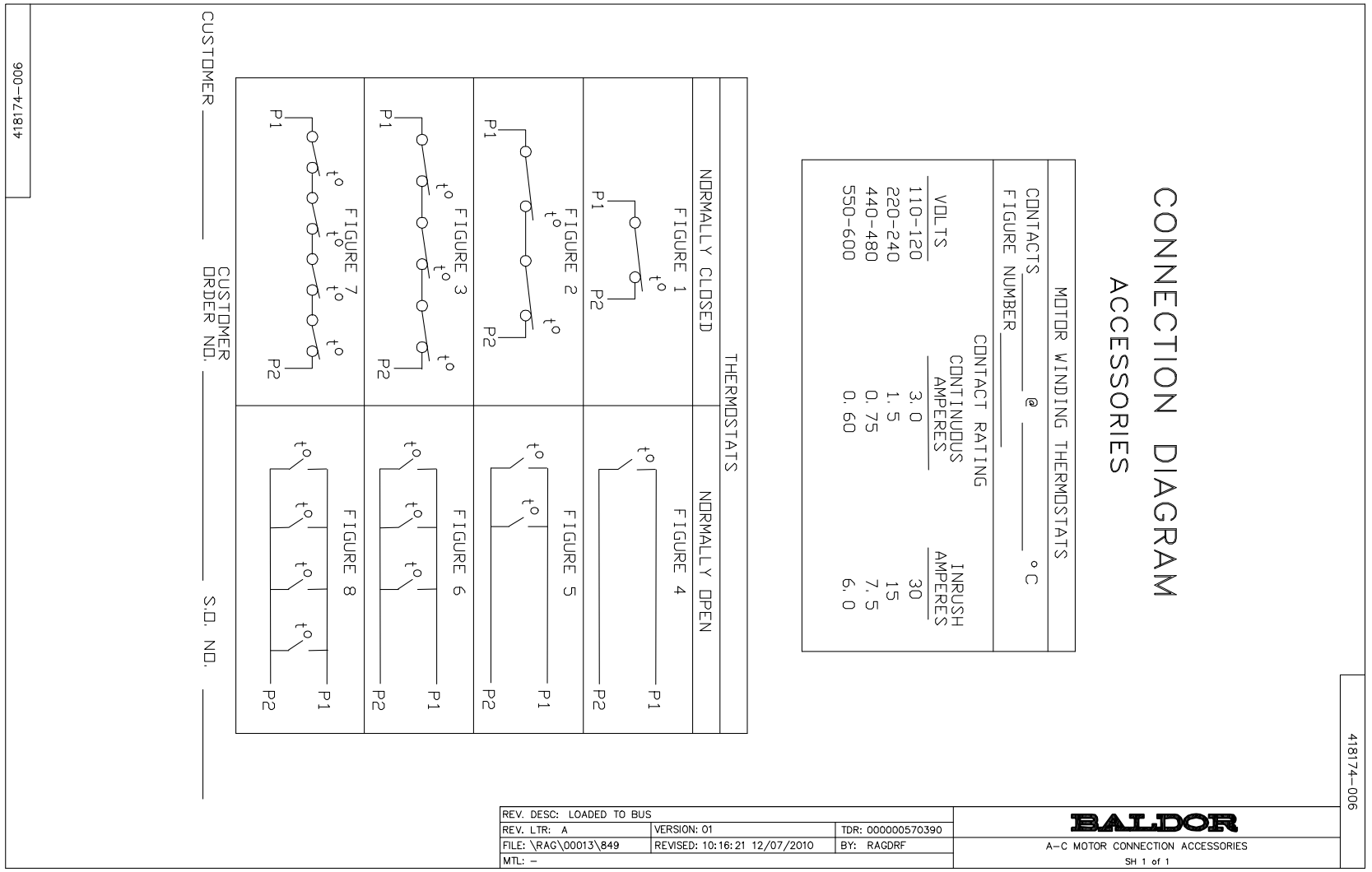
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MODEL NO. 617426-356			REF:
BY: USJEDIL	Material:		C

BALDOR

G447/445T FCXP F1 FOOT CAST IRON CONDUIT BOX/GROUP C & D

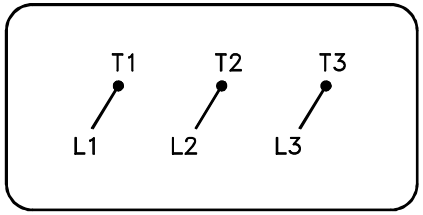
617426-356

617426-356


CONNECTION DIAGRAM
ACCESSORIES
418174-006
MOTOR WINDING THERMOSTATS
CONTACTS _____ @ _____ °C
FIGURE NUMBER _____
CONTACT RATING
VOLTS
110-120
220-240
440-480
550-600
CONTINUOUS AMPERES
3.0
1.5
0.75
0.60
INRUSH AMPERES
30
15
7.5
6.0
THERMOSTATS
NORMALLY CLOSED
NORMALLY OPEN
FIGURE 1
FIGURE 2
FIGURE 3
FIGURE 4
FIGURE 5
FIGURE 6
FIGURE 7
FIGURE 8
P1
P2
CUSTOMER _____
CUSTOMER ORDER NO. _____
S.O. NO. _____
418174-006
REV. DESC: LOADED TO BUS
REV. LTR: A
VERSION: 01
TDR: 000000570390
FILE: \RAG\00013\849
REVISED: 10:16:21 12/07/2010
BY: RAGDRF
MTL: -
BALDOR
A-C MOTOR CONNECTION ACCESSORIES
SH 1 of 1

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