ABB BALDOR RELIANCE

Customer information packet

DRX44164T

100HP, 1188RPM, 3PH, 60HZ, 444T, TEFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	TEFC
Frame	444T
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	100.000 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	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	116.000 A @ 460.0 V
	232.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	116.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2115
Layout	617426-001
Eff. date	05-06-2024
CD Diagram	416820-002
Poles	06
Leads	3#2,6#4
Proprietary	False
Created date	03-11-2019

IP Rating	NONE
KVA Code	G
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	44.97 IN
Power Factor	85
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	No Slinger
Speed	1188 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.	A44-8612-2115			**CAT.NO.**	DRX44164T					**FRAME**	444T
HP	100	**VOLTS**	230/460		**PHASE**	3	**DESIGN**	B	**TYPE**	P	
RPM	1188	**AMPS**	232/116		**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**	49.8	**MAG CUR**	34.9			**RPM MAX**	2700		
CT HZ	6-60	**VT HZ**	0-60	**CHP HZ**	60-90			**NEMA-NOM-EFF**	95		
	SUIT FOR 55C AMB AT 1.00 SF						IP55				
SER.NO.				**MOTOR WEIGHT**							

Parts List

Part number	Description	Quantity
SA367506	SA A44-8612-2115	1.000 ea
RA356966	RA A44-8612-2115	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
LB1073	ALUM XP CAUTION LABEL	1.000 ea
000613006PC	N/P U/L (REL QTY 500)	1.000 ea
NP3140L	INVERTER DUTY, SS, CC, CSA-C US, CSA EEV	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	2.000 ea
609158001D	SLGR - 440	1.000 ea
603284001W	SLGN - 449	1.000 ea
089448117B	G28 X/P FT MNT ODE BRKT MCHG 6318	1.000 ea
415072001B	CLAMP	1.000 ea
083199082A	G28 Fan cover machining	1.000 ea
034180014GA	KEY 1/2X1/2X1-3/4 L	1.000 ea
078557001E	FAN 440 078557001F	1.000 ea
004824015A	GREASE POLYREX EM	1.160 lb
032130024HB	HHSHCS 1-8X3" PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018028DK	HHCS 1/2-13X3-1/2 PLTD.	3.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415045002A	SLGR	1.000 ea
410700004A	WSHR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
702623018B	BRKT MOUNTED G28 XP T-BARRIER - 6318 BRG	1.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea

034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
089448117A	G28 X/P FT MNT DE BRKT MCHG 6318	1.000 ea
032018028DK	HHCS 1/2-13X3-1/2 PLTD.	3.000 ea
415045002A	SLGR	1.000 ea
034017016AB	LCKW 1/2" PLATED	3.000 ea
034530044AB	P/NIP 1/8X5-1/2L GALV.	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032130024HB	HHSHCS 1-8X3" PLATED	4.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
18CB1004A01	STD CONDUIT BOX 444-449T 318 EXPL PROOF	1.000 ea
18CB1504A01	STD CONDUIT BOX LID 444-449T 318 EXPL PR	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
034017018AB	5/8 MED LOCK WASHER ZP (034017018AF)	10.000 ea
034017018AB	5/8 MED LOCK WASHER ZP (034017018AF)	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
032130016EB	HSHCS 5/8-11X2 PLTD.	10.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	1.000 ea
034017016AB	LCKW 1/2" PLATED	1.000 ea
032130020EB	HSHCS 5/8-11X2-1/2PLTD.	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.400 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
032510024D	CARRIAGE BOLT - 444	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444T	100	P	3/60	1188	230/460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
232/116	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
497223	418143080FE	---	---	.0139/.0557

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	34.9	1200	5.84	0
1/4	25.0	45.1	1197	56.9	91.4
2/4	50.0	64.6	1194	76.7	94.5
3/4	75.0	89.0	1191	83.0	95.1
4/4	100	116	1188	85.0	95.0
5/4	125	144	1185	86.0	94.6

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	160	705	725
PULL UP	240	140	620	700
BREAKDOWN	1138	250	1106	390
FULL LOAD	1188	100	442	116

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

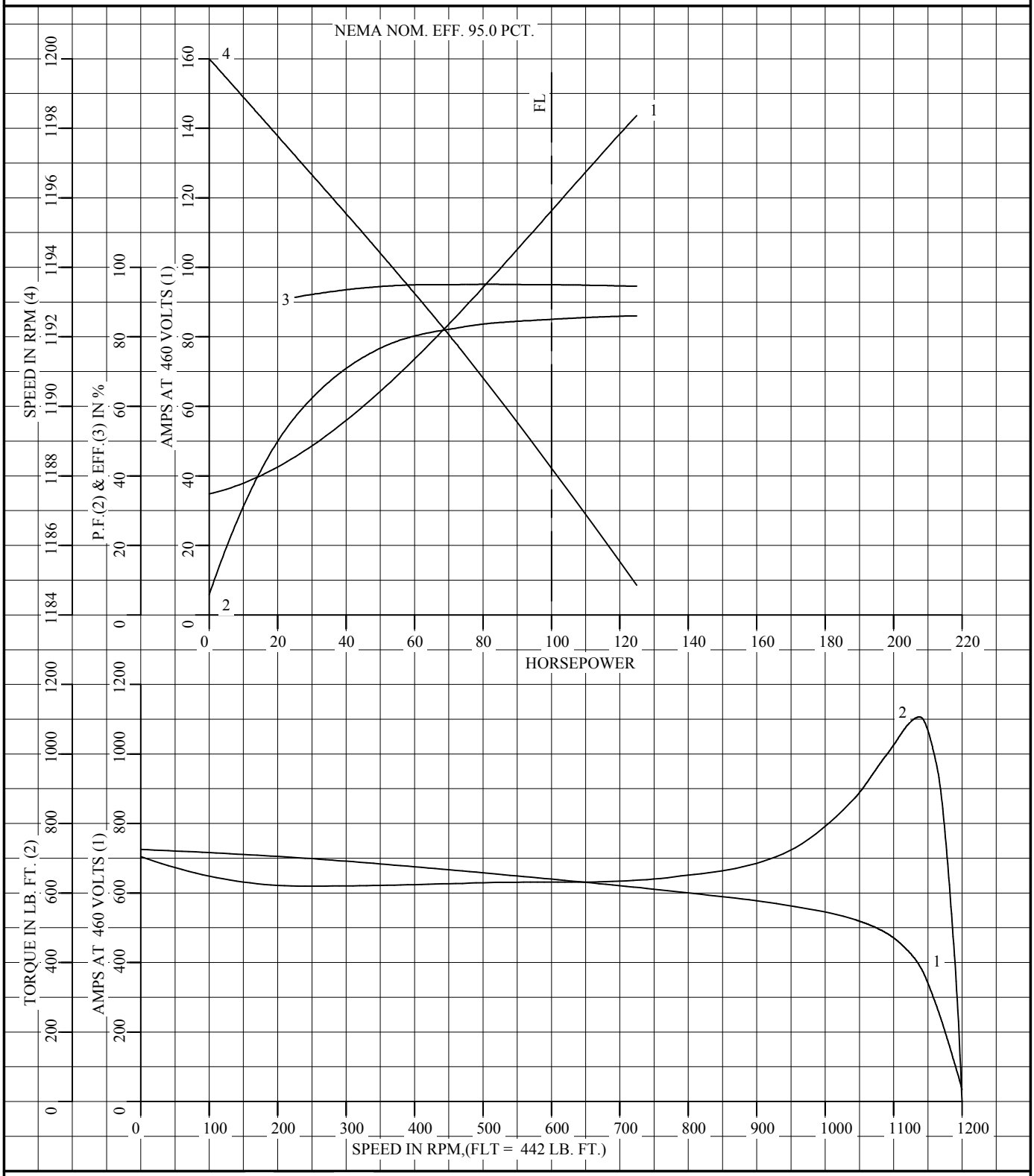
REMARKS: TYPICAL DATA
NEMA NOM. EFF. 95.0 PCT.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH
CK. BY C.E.JAMISON
APP. BY E.J.CHRISTIAN
DATE 10/08/18

A-C MOTOR PERFORMANCE DATA A44WG2115-R007
ISSUE DATE 03/11/19

REL S.O.	RPM 1188	S.F. 1.15	ROTOR 418143080FE
FRAME 444T	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 100	AMPS 232/116	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0139/.0557
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 497223	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
A MEMBER OF THE ABB GROUP

DR. BY	W. L. SMITH
CK. BY	C.E.JAMISON
APP. BY	E.J.CHRISTIAN
DATE	10/08/18

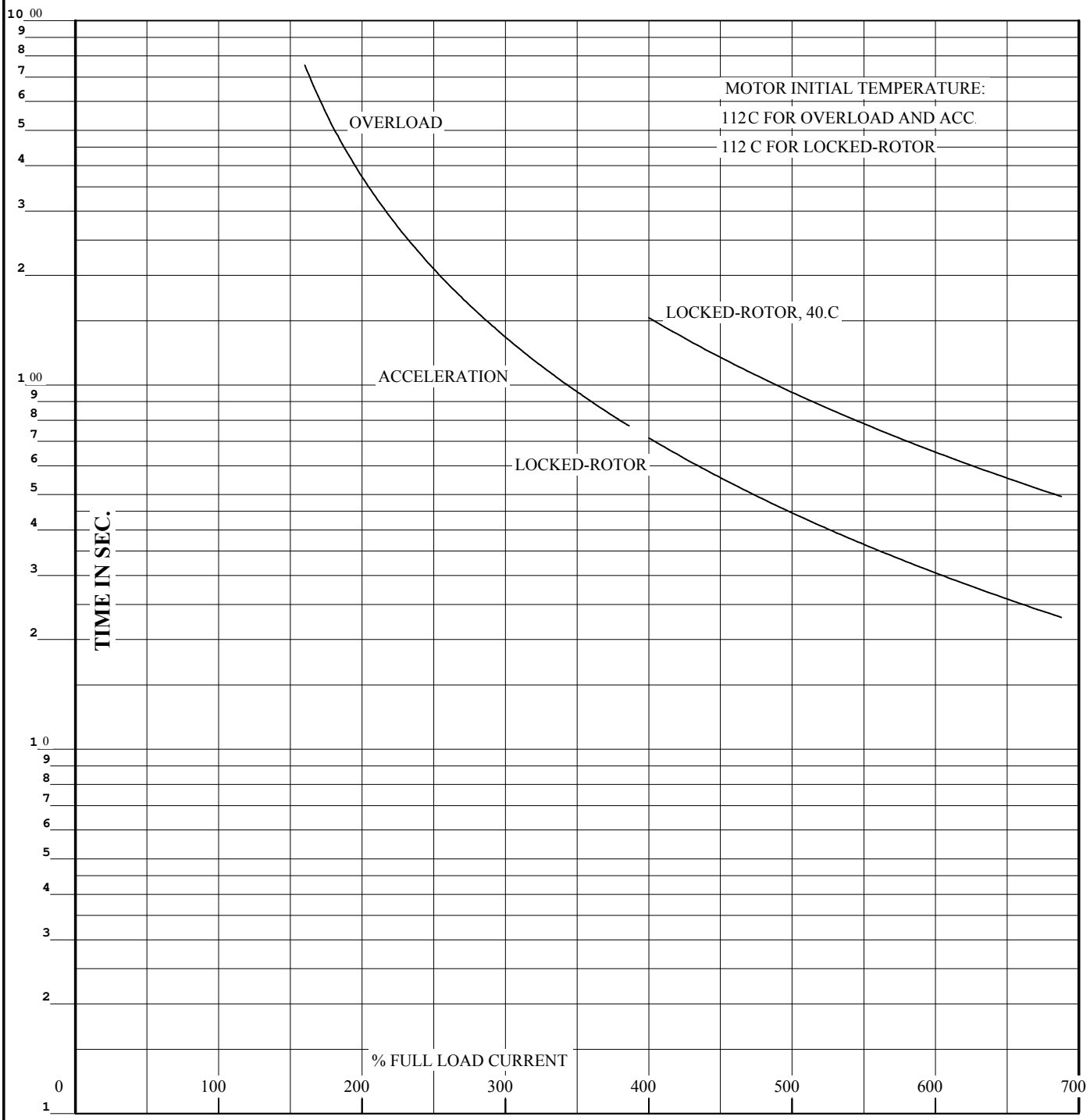
A-C MOTOR PERFORMANCE CURVES

A44WG2115-R007

ISSUE DATE 03/11/19

Printed on 3/11/19 9:26 @ bengap01.baldor.com

REL. S.O.		RPM	1188	S.F.	1.15	ROTOR	418143080FE
FRAME	444T	VOLTS	230/460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	100	AMPS	232/116	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.0139/.0557
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	497223		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOM. EFF. 95.0 PCT.

AMPERES SHOWN FOR 460 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	W. L. SMITH
CK. BY	C.E.JAMISON
APP. BY	E.J.CHRISTIAN
DATE	10/08/18

A–C MOTOR PERFORMANCE CURVES

A44WG2115-R007

ISSUE DATE 03/11/19

DUTY MASTER ALTERNATING CURRENT MOTORS

617426-001

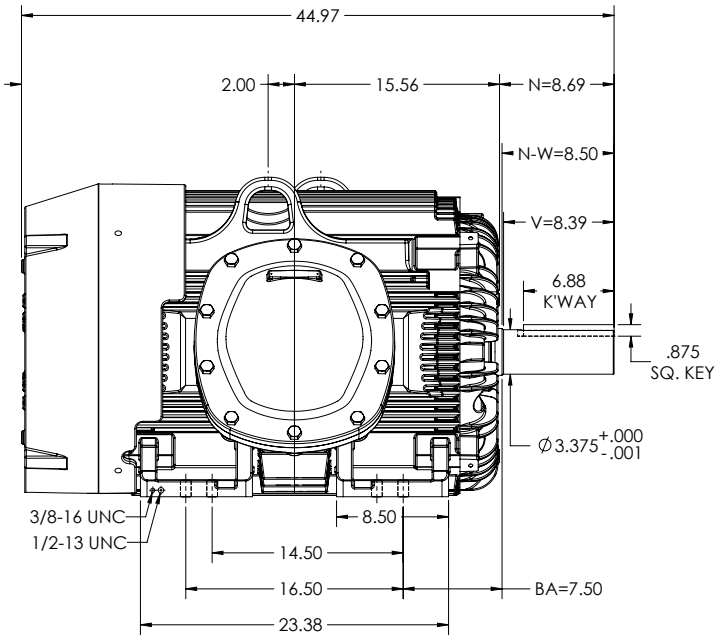
SQUIRREL-CAGE INDUCTION

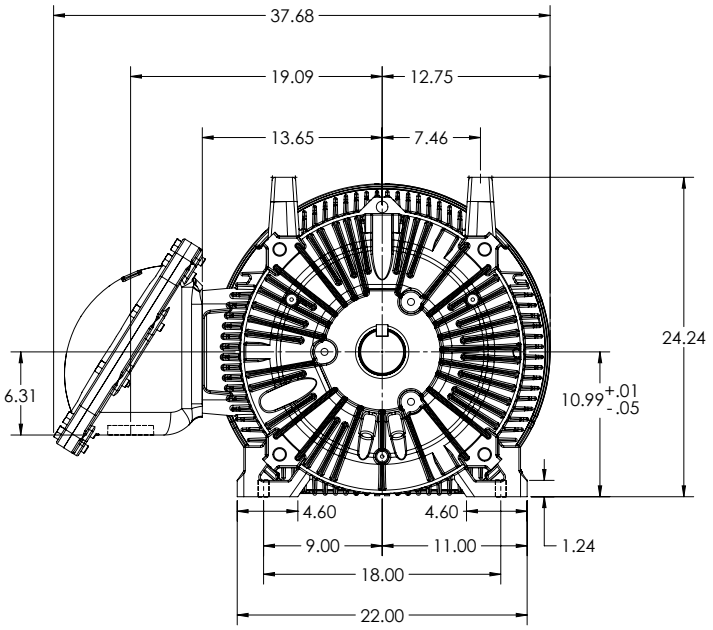
ENCLOSURE: UL LISTED MOTOR

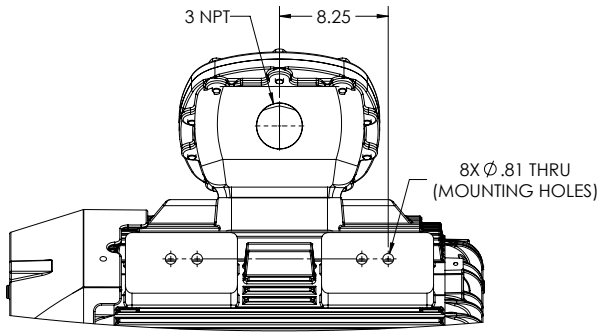
MOUNTING: FOOT, F-1

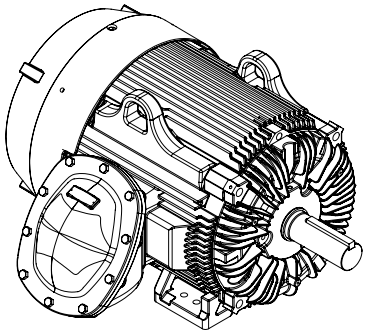
G445T/G444T FRAME MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS.
WEIGHT (LBS): 2150, 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 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

617426-001

REV. DESC: UPDATE DS QUALITY			
REV: D	VERSION: 04	REVISED: 10:29:12 07/14/2017	TDR: 000001034367
MODEL NO. 617426-001			REF:
BY: USJEDIL	Material:		C

BALDOR

G445T/444T FCXP F1 FOOT/CAST IRON CONDUIT BOX/DIV.1

617426-001

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

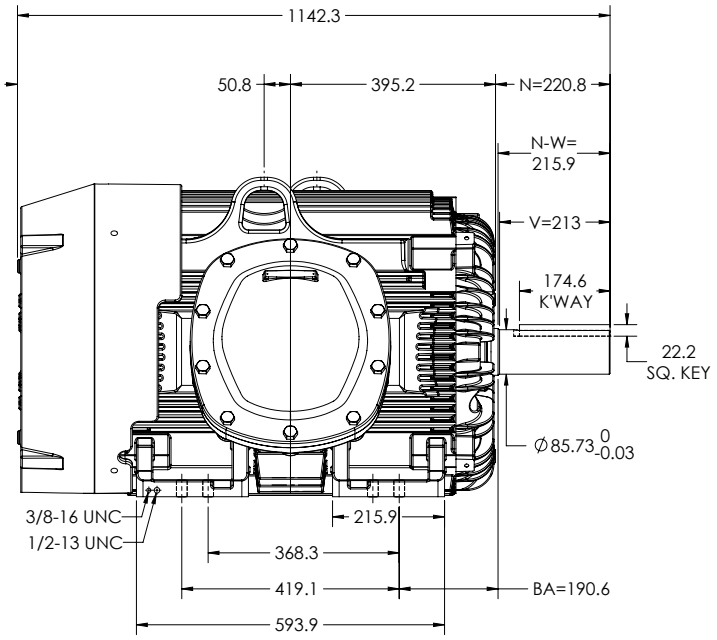
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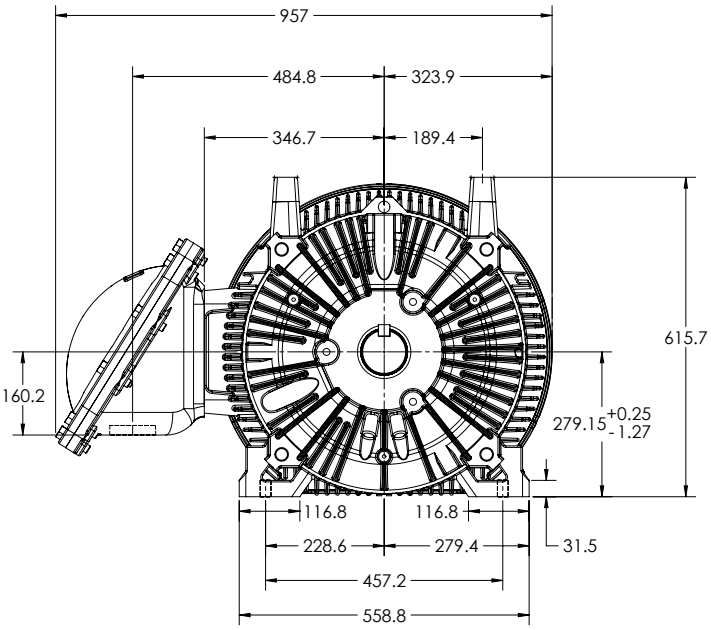
ENCLOSURE: UL LISTED MOTOR

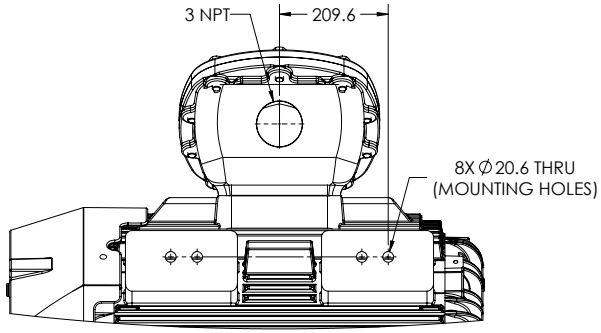
MOUNTING: FOOT, F-1

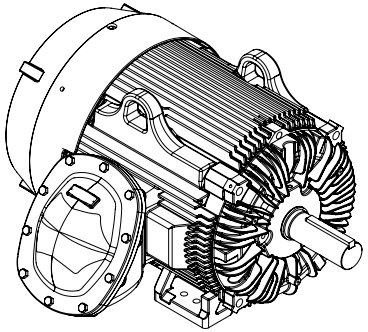
G445T/G444T FRAME MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KGS): 975, 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 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

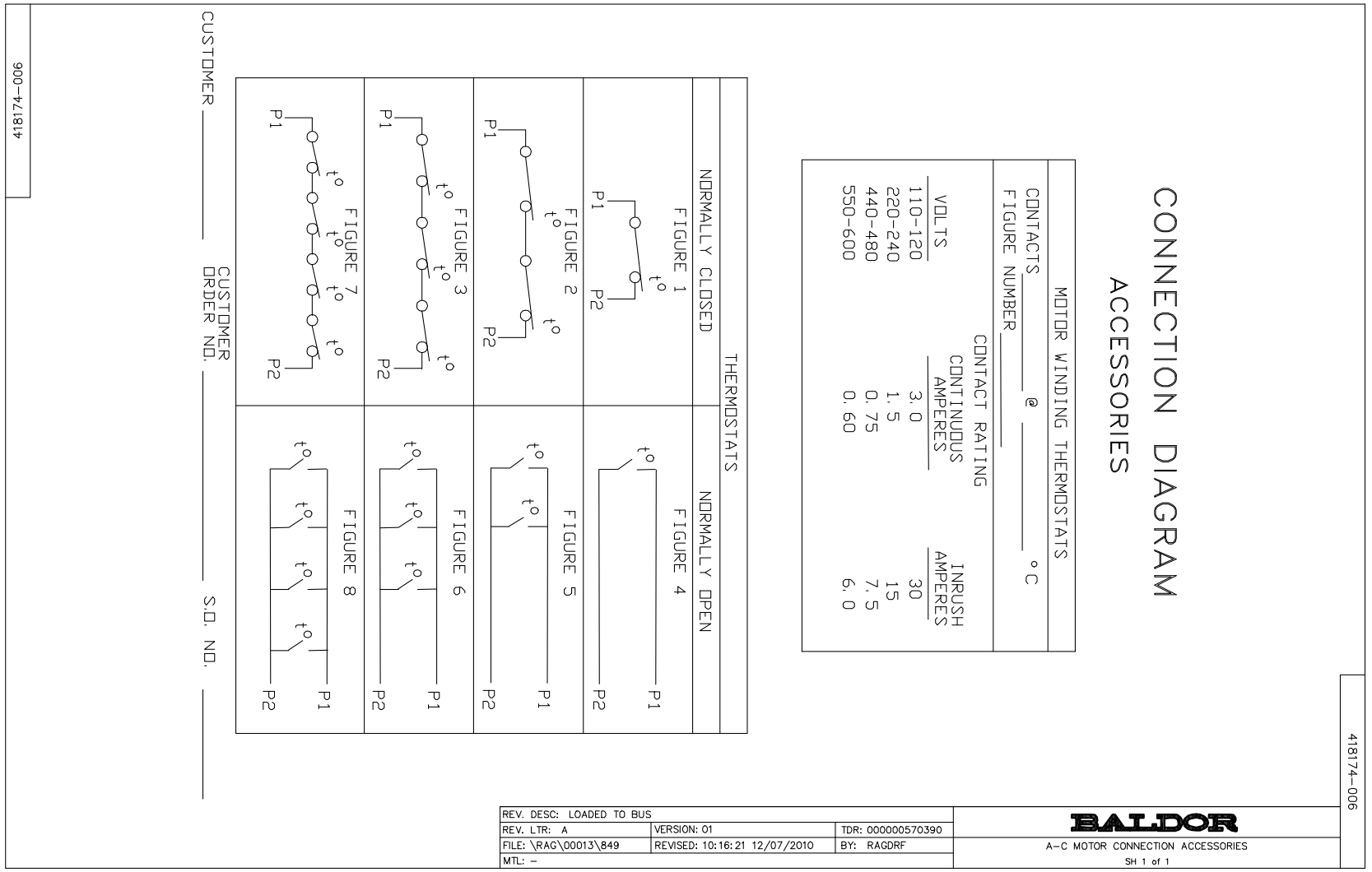
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REV. DESC: UPDATE DS QUALITY			
REV: D	VERSION: 04	REVISED: 10:29:12 07/14/2017	TDR: 000001034367
MODEL NO. 617426-001			REF:
BY: USJEDIL	Material:		C

BALDOR

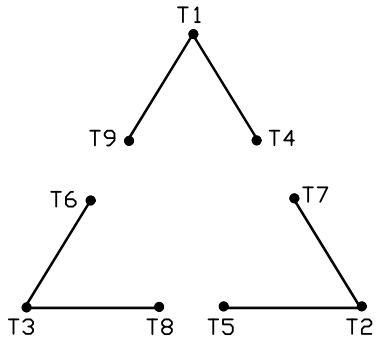
G445T/444T FCXP F1 FOOT/CAST IRON CONDUIT BOX/DIV.1

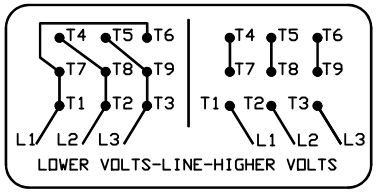
617426-001


CONNECTION DIAGRAM
ACCESSORIES
418174-006
MOTOR WINDING THERMOSTATS
CONTACTS @ °C
FIGURE NUMBER
CONTACT RATING
VOLTS
CONTINUOUS AMPERES
INRUSH AMPERES
110-120 3.0 30
220-240 1.5 15
440-480 0.75 7.5
550-600 0.60 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
t°
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

416820-002

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