ABB BALDOR RELIANCE

Customer information packet

ECP844156TR-4

150HP, 1190RPM, 3PH, 60HZ, 447T, TEFC, FOOT,
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	447T
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	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	15-60
Current @ Voltage	170.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	170.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	F

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1496
Layout	617434-663
Eff. date	12-11-2023
CD Diagram	416820-036
Poles	06
Leads	3#1/0
Proprietary	False
Created date	12-11-2018

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	Other
Motor Type	A44120M
Mounting Arrangement	F1
No Load Current	38.6 a
Number of Poles	6
Overall Length	48.46 IN
Power Factor	86
Pulley End Bearing Type	Roller
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566												
CAT NO	ECP844156TR-4	**SPEC NO.**	A44-8391-1496									
HP	150	**AMPS**	170	**VOLTS**	460	**DESIGN**	B					
FRAME SIZE	447T	**RPM**	1190	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	NU222	**O.D.E. BRG.DATA**	6318	**PH**	3	**DUTY**	CONT	**INSUL.CLASS**	F			
D.E. BRG.	110RU02M30X	**TYPE ENCL**	TEFC	**CODE**	F							
O.D.E. BRG.	90BC03J30X	**POWER FACTOR**	86	**NEMA-NOM-EFFICIENCY**	95.8							
3/4 LOAD EFF.	96.2	**IP**	56	**MAX CORR KVAR**	25.0	**GUARANTEED EFFICIENCY**	95					
TEMP CODE	T3	**TEMP =**	200									
CHP HZ	60-90	**CT HZ**	15-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.		**MOTOR WEIGHT**										

000613007EX				
CAT NO	ECP844156TR-4	**SPEC NO.**	A44-8391-1496	
NO. ROTOR BARS	71	**GREASE TYPE**	MOBIL SHC 220	
NO. SLOTS	90	**NL AMPS AT RATED VOLTAGE**	38.6	
5 YEAR WARRANTY		**WINDING RES @25 C**	.03239	**OHMS**
MFG. DATE		**SER.NO**		

NP2496L
MOBIL SHC -220 GREASE

Parts List

Part number	Description	Quantity
SA364332	SA A44-8391-1496	1.000 ea
RA353656	RA A44-8391-1496	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
NP4566	SS INV IEEE841-2021,CLI DIV2,CURUS-E,CSA	1.000 ea
000613007EX	SS IEEE 841 EMBOSSED AUXILIARY NAMEPLATE	1.000 ea
000692000FF	N/P	1.000 ea
000692000JP	N/P	1.000 ea
000692000RT	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
004824015AP	GREASE MOBILITH SHC 220	1.156 lb
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
034690005AB	PPLG 3/4 PLATED	2.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
078549001DA	FAN 400 078549001F	1.000 ea
083199082RA	G28 SHORT FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
089490099D	G28 BRKT 089490098WCA	1.000 ea
415028079H	SEAL,.625 WIDE,318 BRG	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
418151014G	RETAIN RING	1.000 ea
423709011D	WASHER	3.000 ea

032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
415915007G	GASK, LAC	1.000 ft
034530056AB	1/8 X 7 PP NIPPLE	1.000 ea
034530056BB	P/NIP 1/4X7 SCHED 40	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089490101C	G28 BRKT 089490100WCA	1.000 ea
702623022A	G28 AIR DEFLECTOR DRIVE END -- PLASTIC	1.000 ea
034001013AB	FLTW BAFFLE	3.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
415028079J	INPRO SEAL,.625 WIDE,222 BRG	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
418151014H	RETAIN RING	1.000 ea
423709011D	WASHER	3.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
067053014A	GASK 440	1.000 ea
076870000BA	CONDUIT BOX - 440 - 1/2-13 GROUND	1.000 ea
076871000A	+CBOX CVR BLKT - 449	1.000 ea
415039018A	TERBD, 440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea

MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.500 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.094 ga
604797056	WOOD BASE 447 60 X 41-1/2 BLT 20 X 18	1.000 ea
MG1500G03-5	LACQUER PRIMER, GRAY	0.094 ga
421948051	LABEL, MYLAR	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
412118006A	DRAIN	2.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	447T	150	P	3/60	1190	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
833241	418143080ME	---	---	.0324

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	42.5	1200	3.70	0
1/4	37.6	65.5	1197	56.6	94.9
2/4	75.1	94.9	1194	76.9	96.3
3/4	112	130	1191	83.9	96.2
4/4	150	170	1188	86.3	95.8
5/4	188	213	1184	86.8	95.1

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	121	799	1025
PULL UP	180	97.2	644	1002
BREAKDOWN	1150	236	1563	592
FULL LOAD	1188	100	663	170

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 NOMINAL EFFICIENCY = 95.4 PCT.

BALDOR

DR. BY W. L. SMITH
CK. BY J.J.HARRISON
APP. BY W. L. SMITH
DATE 04/27/10

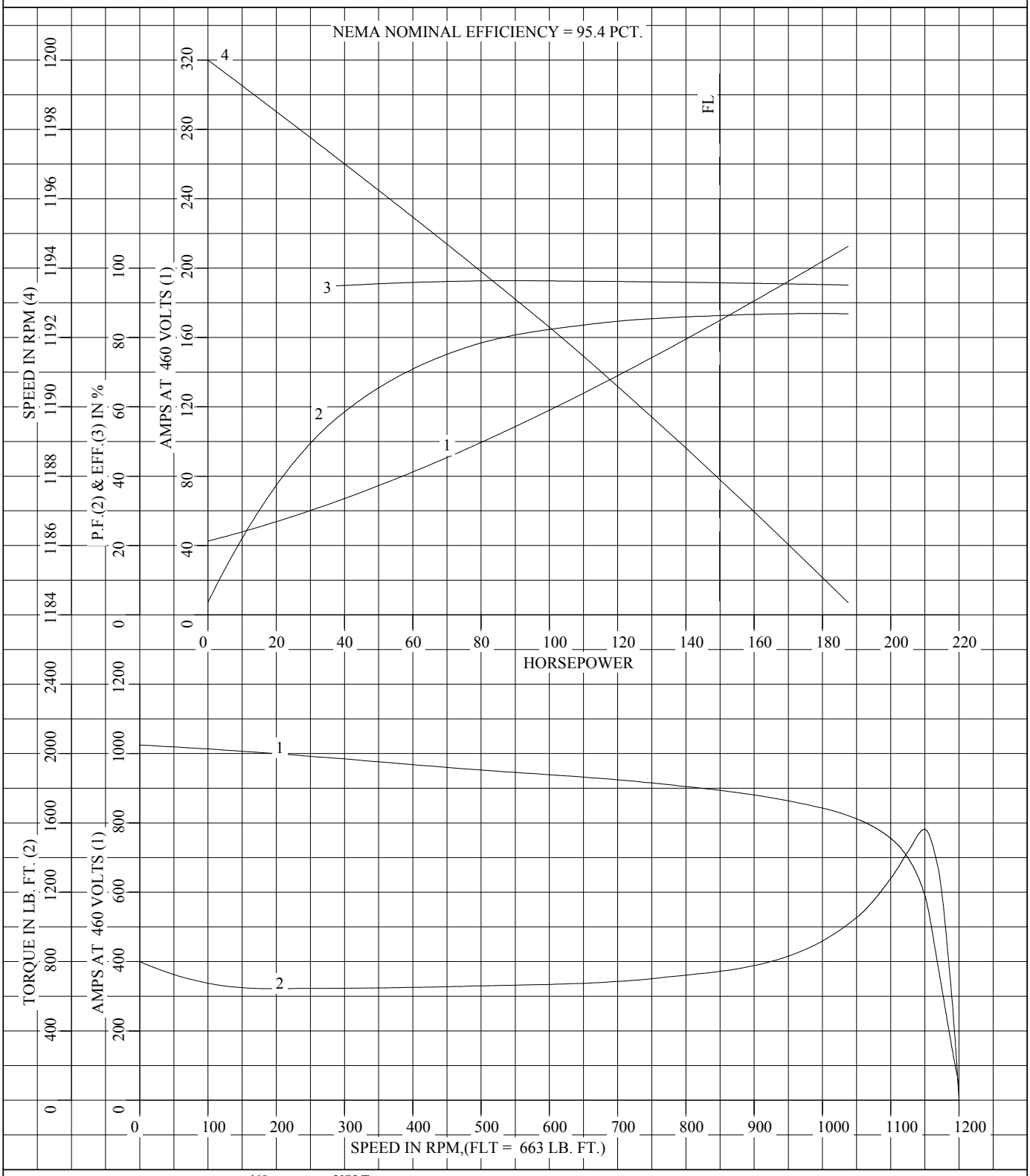
A-C MOTOR PERFORMANCE DATA

A44WG1496-R001
ISSUE DATE 12/18/10

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET ECP844156TR-4 - 150HP, 1190RPM, 3PH, 60HZ, 447T, TEFC, FOOT,

FRAME 447T	RPM 1190	S.F. 1.15	ROTOR 418143080ME
HP 150	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 170	CODE LETTER F	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃ .0324
	AMB ℃/INSUL 40/F	E/S 833241	OHMS (BETWEEN LINES)



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

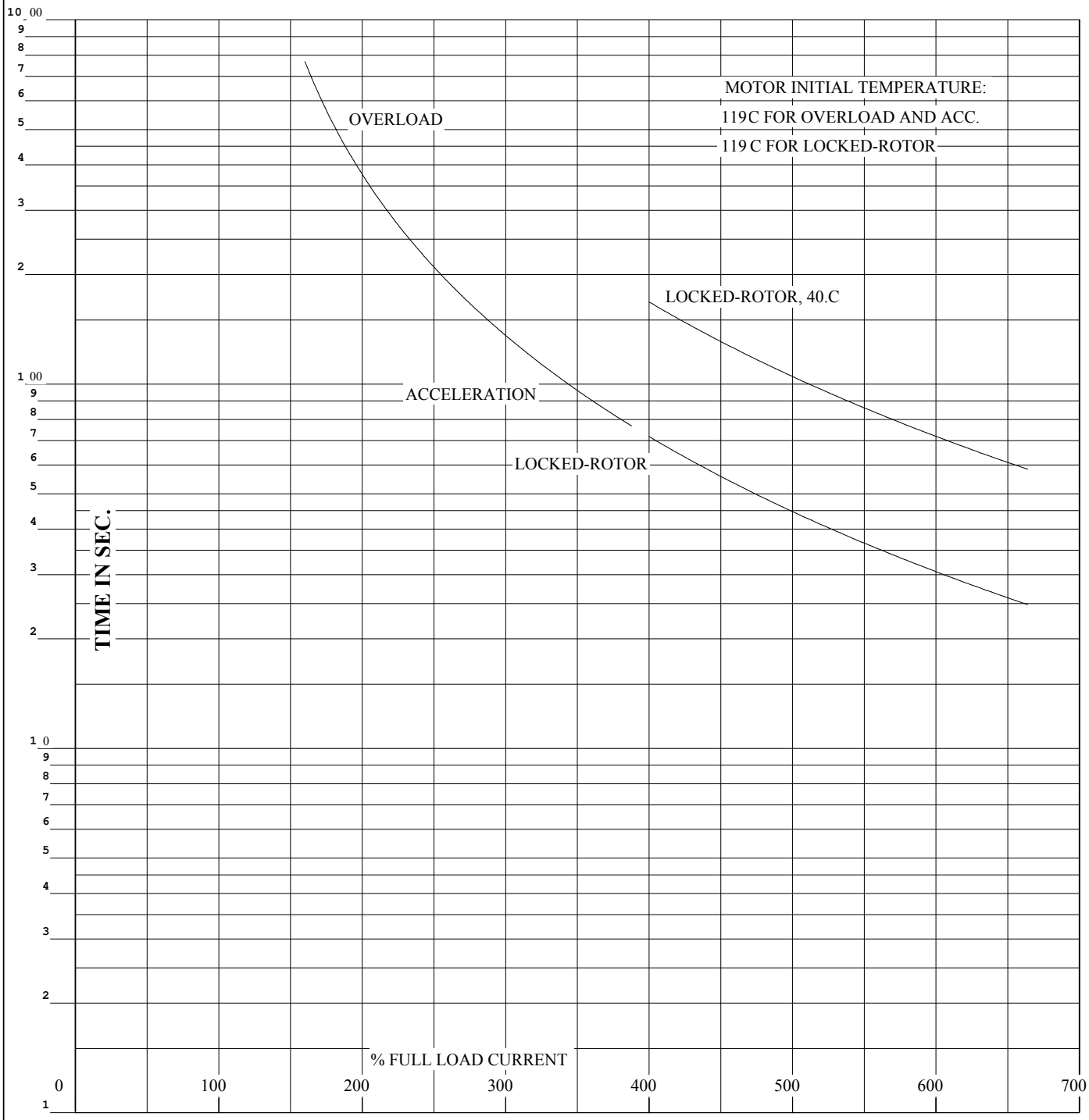
BALDOR

DR. BY	W. L. SMITH
CK. BY	J.J.HARRISON
APP. BY	W. L. SMITH
DATE	04/27/10

A–C MOTOR PERFORMANCE CURVES A44WG1496-R001 ISSUE DATE 12/18/10

Printed on 12/18/10 6:09 @ psecs-motoreng

REL. S.O.	RPM 1190	S.F. 1.15	ROTOR 418143080ME
FRAME 447T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 170	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C.0324
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 833241	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOMINAL EFFICIENCY = 95.4 PCT.

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

BALDOR	DR. BY W. L. SMITH CK. BY J.J.HARRISON APP. BY W. L. SMITH DATE 04/27/10	**A-C MOTOR PERFORMANCE CURVES**	**A44WG1496-R001** ISSUE DATE 12/18/10

SHEET NUMBER 1 OF 2

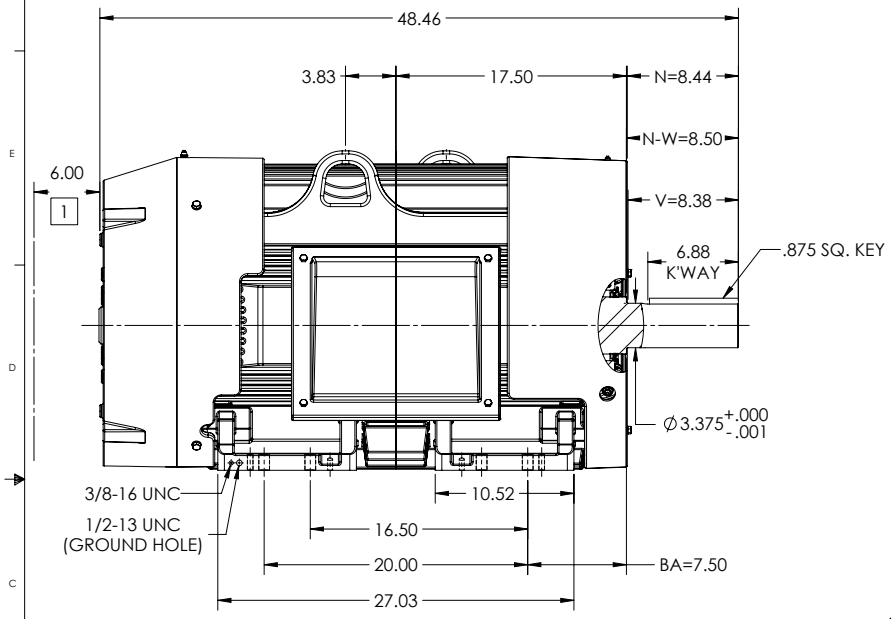
DUTY MASTER ALTERNATING CURRENT MOTORS

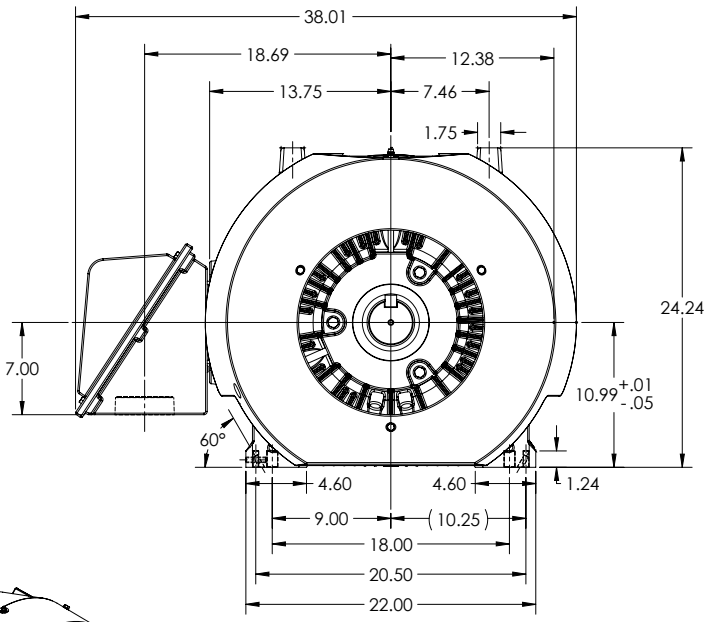
617434-663

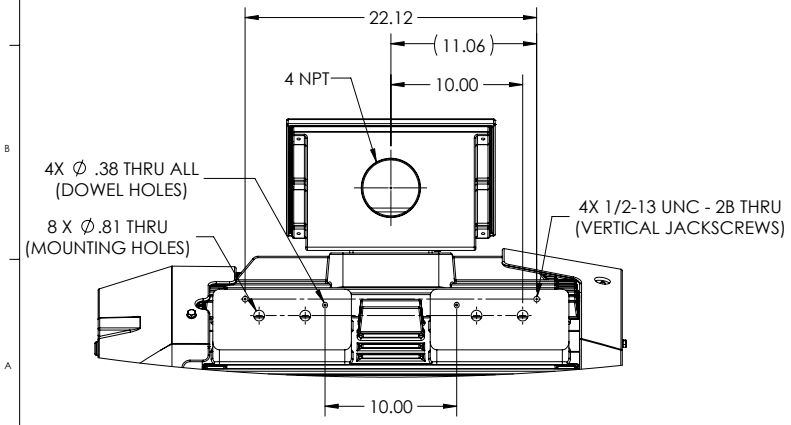
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

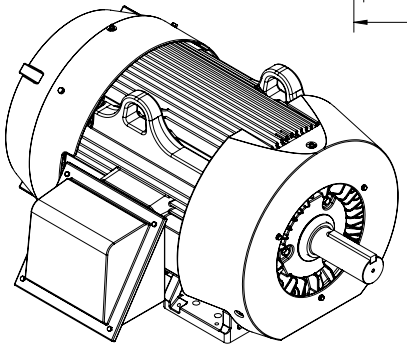
MOUNTING: FOOT, F-1 SIDE | G447T/ G445T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL

ROLLER BEARING DESIGN









1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 2515. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .002 T.I.R.

617434-663

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: A	VERSION: 01	REVISED: 03:33:42 10/03/2022	TDR: 000001196512
MODEL NO. 617434-663			REF:
BY: ENFRAJ0	Material:		C

BALDOR

G447/445T TEFC FT F1 CI BOX/JACKSCREWS/DOWELS/INPROS/ROLLER

617434-663

SHEET NUMBER 2 OF 2

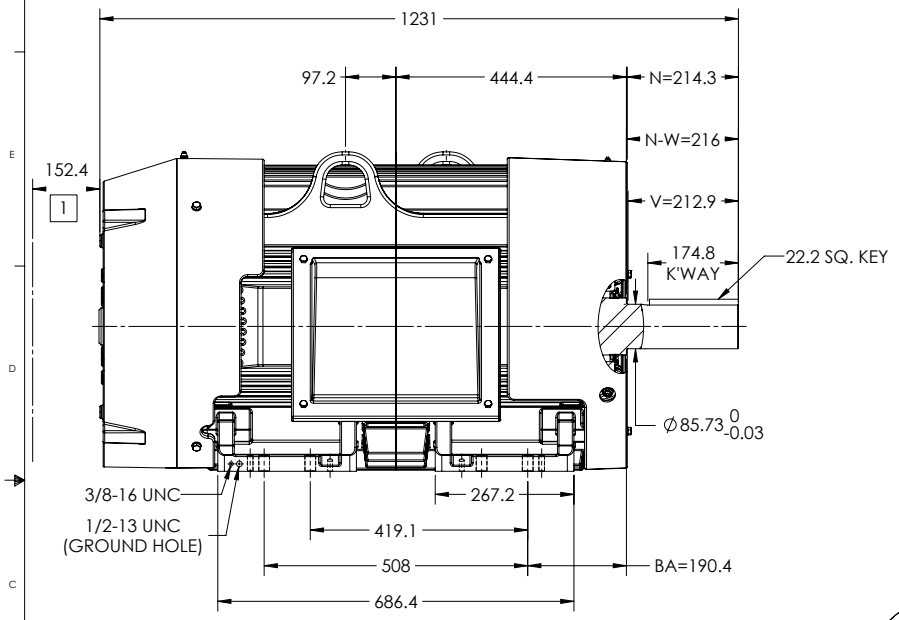
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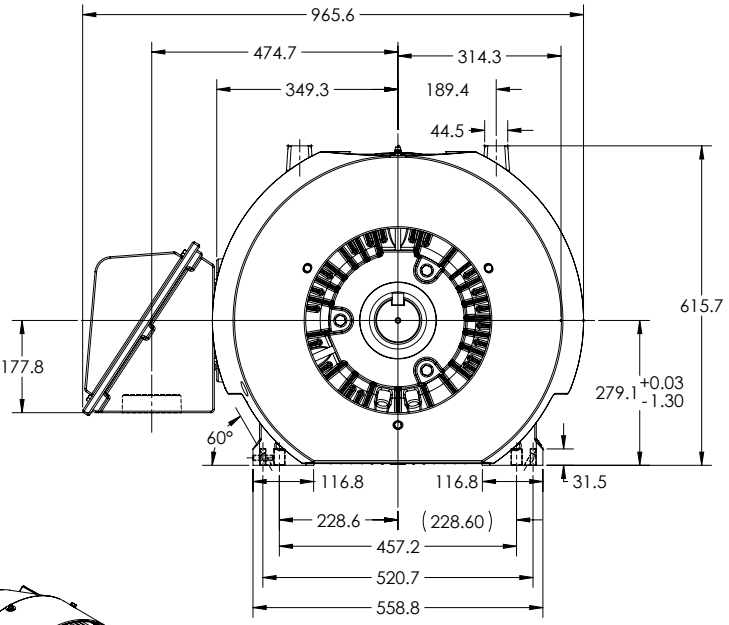
DUTY MASTER ALTERNATING CURRENT MOTORS

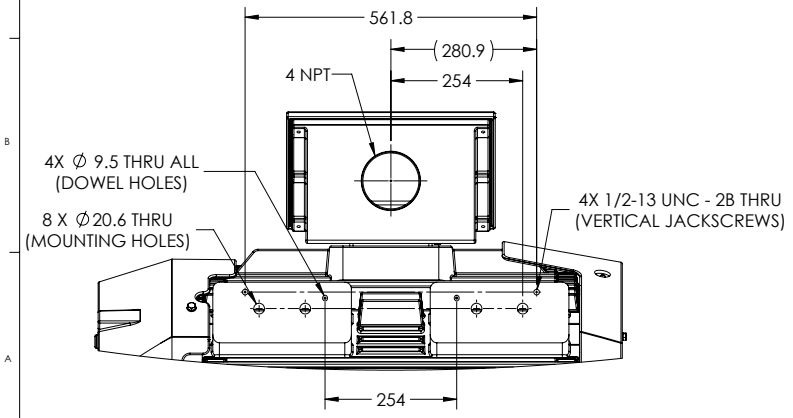
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

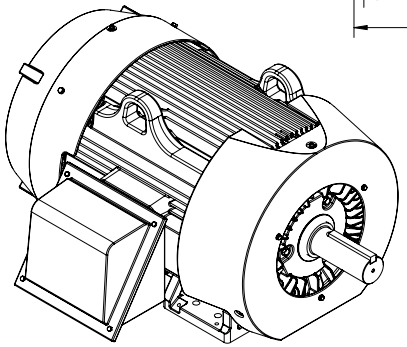
MOUNTING: FOOT, F-1 SIDE | G447T/ G445T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL

ROLLER BEARING DESIGN









1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KGS): 1141, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .05 T.I.R.

617434-663

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: A	VERSION: 01	REVISED: 03:33:42 10/03/2022	TDR: 000001196512
MODEL NO. 617434-663			REF:
BY: ENFRAJ0	Material:	C	

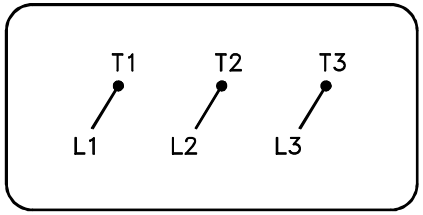
BALDOR

G447/445T TEFC FT F1 CI BOX/JACKSCREWS/DOWELS/INPROS/ROLLER

617434-663

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