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

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

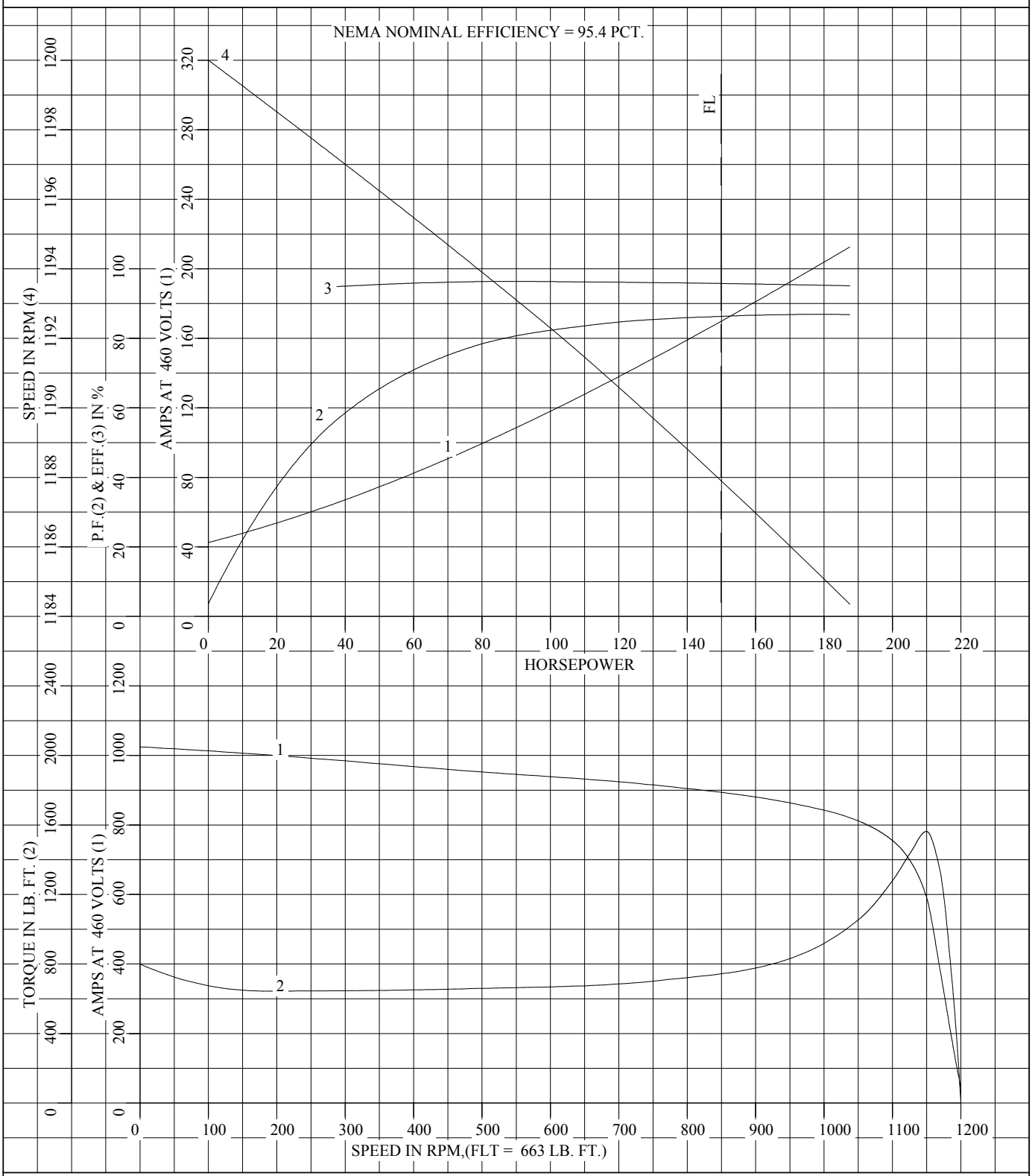
A-C MOTOR PERFORMANCE DATA

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)



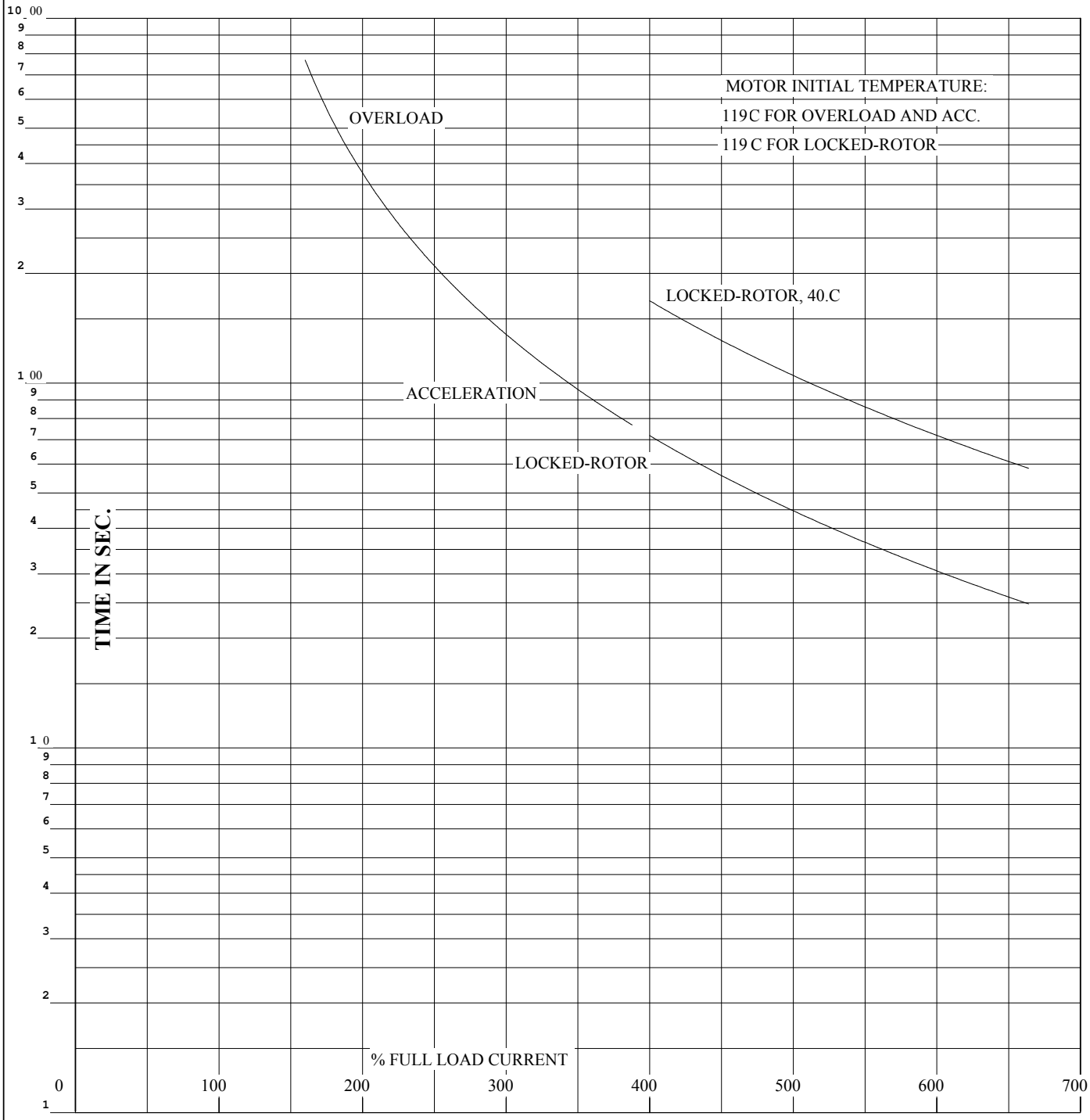
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

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APP. BY	W. L. SMITH
DATE	04/27/10

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

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

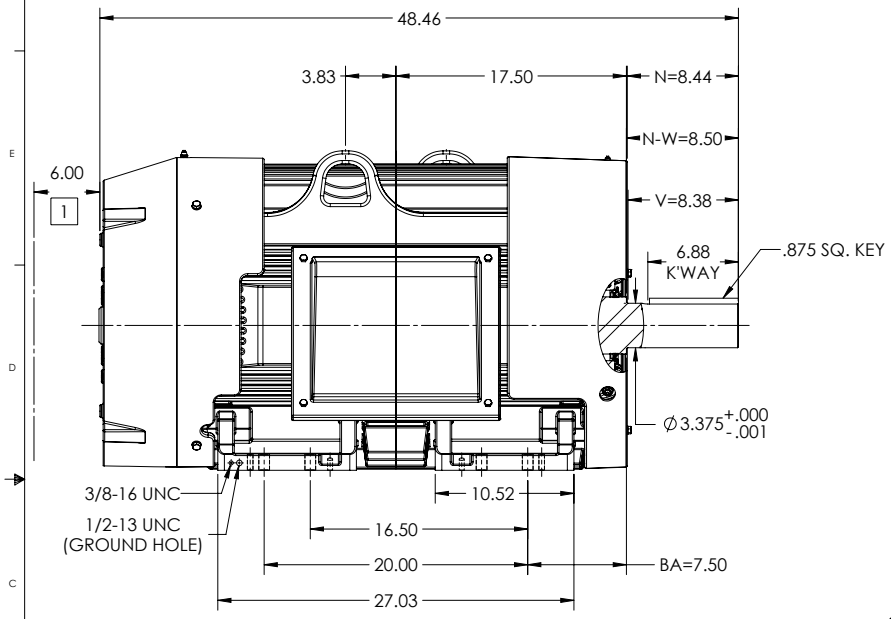
DUTY MASTER ALTERNATING CURRENT MOTORS

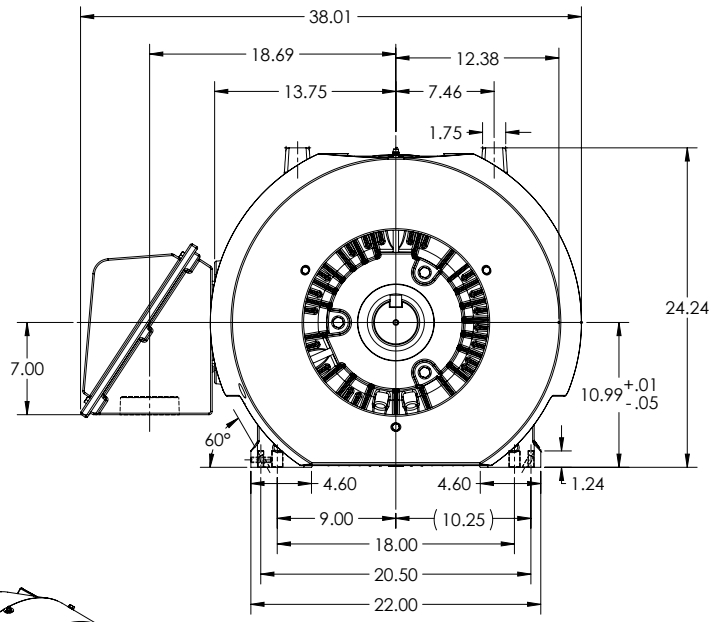
617434-663

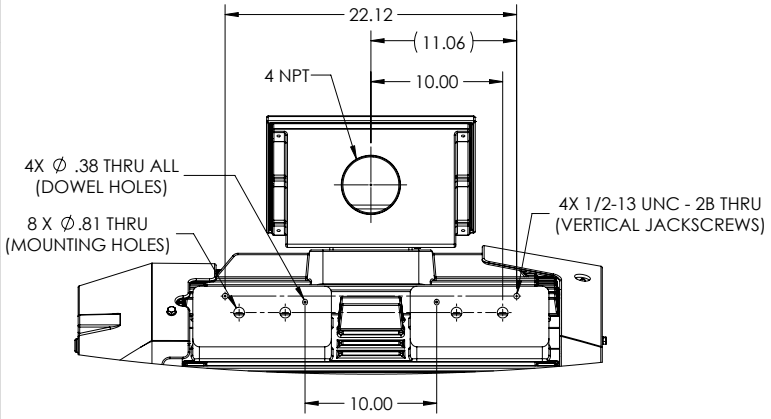
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

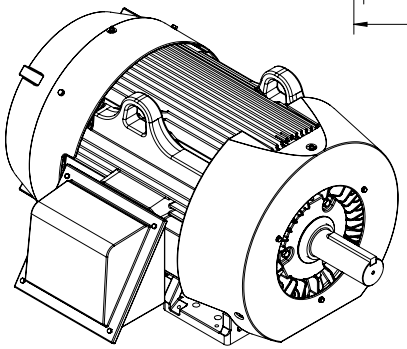
MOUNTING: FOOT, F-1 SIDE | G447T/ G445T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL

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

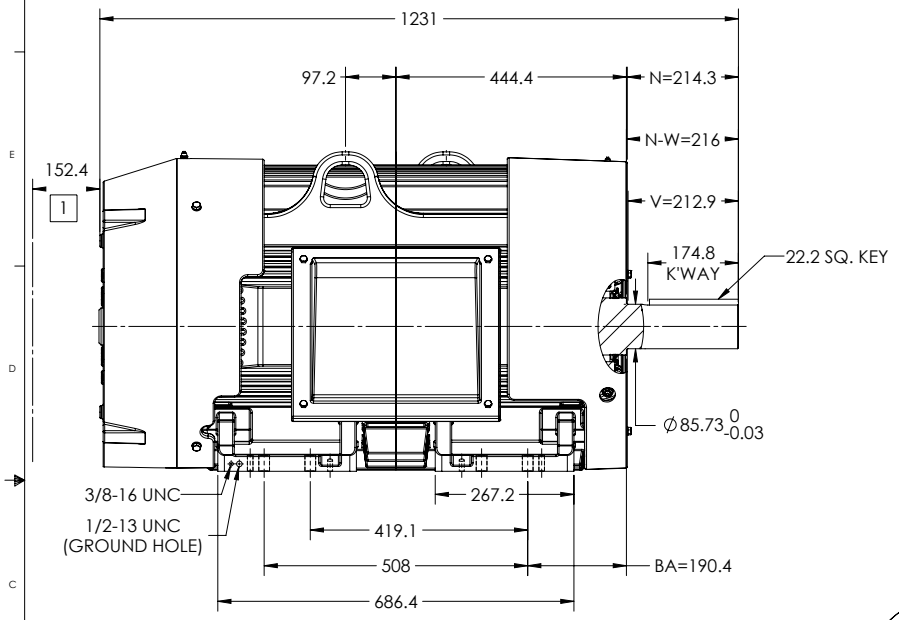
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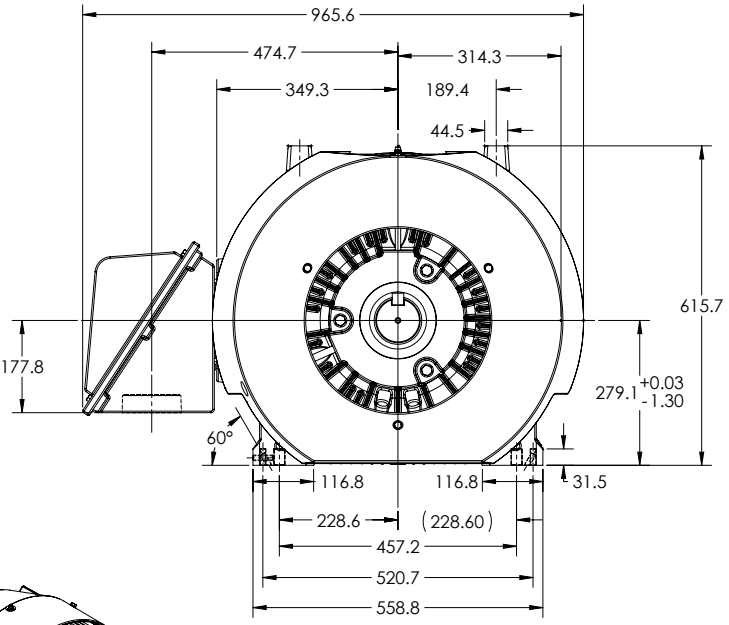
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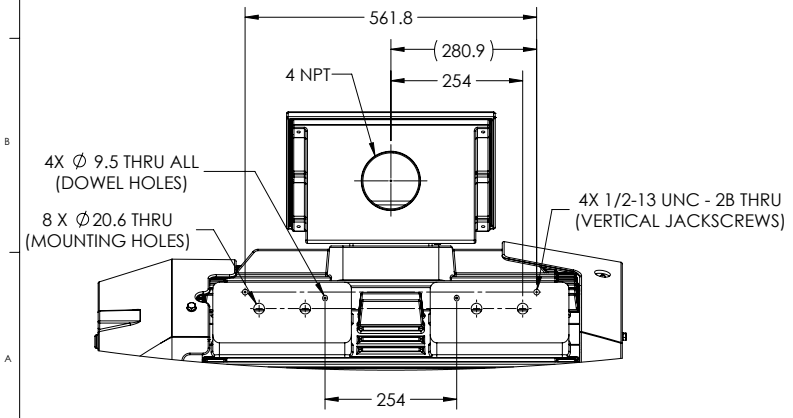
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

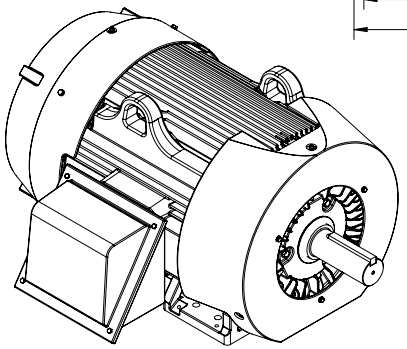
MOUNTING: FOOT, F-1 SIDE | G447T/ G445T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL

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	

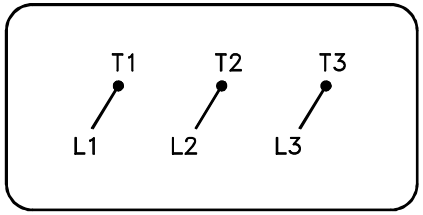
BALDOR

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