ABB BALDOR RELIANCE

Customer information packet

ECP84408T-5

250HP, 1785RPM, 3PH, 60HZ, 449T, A44160M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	449T
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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	C UR US CCSA US CCSAUSEEV CURUS
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	30-60
Current @ Voltage	219.000 A @ 575.0 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	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	219.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5260
Layout	617434-665
Eff. date	06-19-2025
CD Diagram	416820-036
Poles	04
Leads	3#1 (02 per group)
Proprietary	False
Created date	05-21-2025

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1 AWG
Motor Standards	None
Motor Type	A44160M
Mounting Arrangement	F1
No Load Current	63.6 a
Number of Poles	4
Overall Length	53.47 IN
Power Factor	89
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	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566												
CAT NO	ECP84408T-5	**SPEC NO.**	A44-0004-5260									
HP	250	**AMPS**	219	**VOLTS**	575	**DESIGN**	B					
FRAME SIZE	449T	**RPM**	1785	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	6318	**O.D.E. BRG.DATA**	6318	**PH**	3	**DUTY**	CONT	**INSUL.CLASS**	F			
D.E. BRG.	90BC03J30X	**TYPE**	**ENCL**	TEFC	**CODE**	G						
O.D.E. BRG.	90BC03J30X	**POWER FACTOR**	89	**NEMA-NOM-EFFICIENCY**	96.2							
3/4 LOAD EFF.	96.5	**IP**	56	**MAX CORR KVAR**	37	**GUARANTEED EFFICIENCY**	95.4					
TEMP CODE	T3	**TEMP =**	200									
CHP HZ	60-90	**CT HZ**	30-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.		**MOTOR WEIGHT**										

000613007EX					
CAT NO	ECP84408T-5	**SPEC NO.**	A44-0004-5260		
NO. ROTOR BARS	58	**GREASE TYPE**	POLYREX EM		
NO. SLOTS	72	**NL AMPS AT RATED VOLTAGE**		63.6	
5 YEAR WARRANTY		**WINDING RES @25 C**	.0187	**OHMS**	
MFG. DATE		**SER.NO**			

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449LP	250	P	3/60	1785	575

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
445260	418143052ZEQ	---	---	.0187

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	63.6	1800	4.01	0
1/4	62.5	82.5	1796	60.2	94.3
2/4	125	121	1793	80.7	96.2
3/4	187	168	1789	86.8	96.5
4/4	250	219	1785	88.6	96.3
5/4	313	273	1781	89.2	95.9

SPEED TORQUE

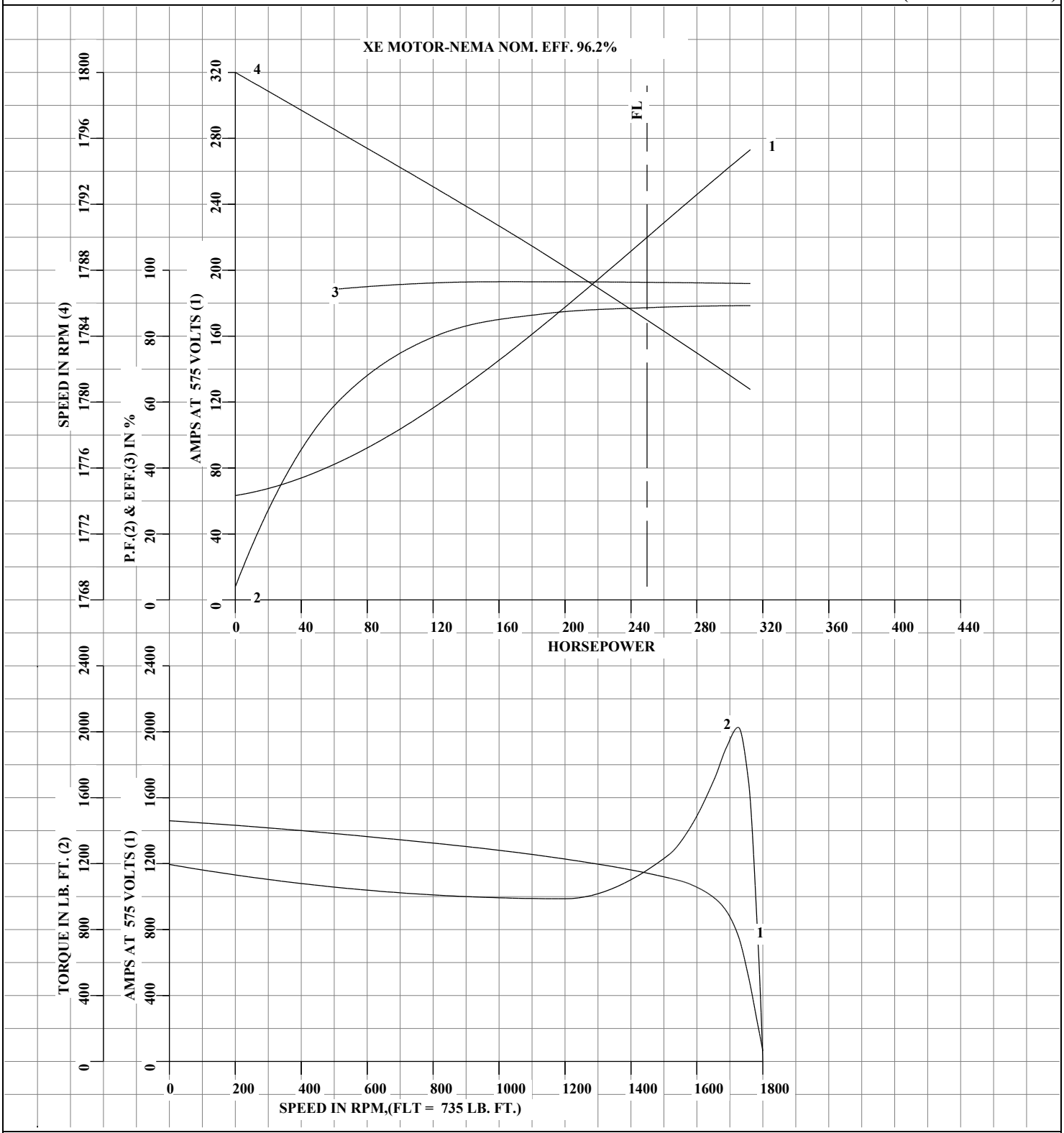
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	163	1195	1460
PULL UP	1200	134	987	1228
BREAKDOWN	1726	276	2027	761
FULL LOAD	1785	100	735	219

AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 96.2%

ABB	DRAWN BY: C.E. JAMISON CHECKED BY: W.L. SMITH APPROVED BY: C.E. JAMISON DATE: 08/07/15	AC MOTOR PERFORMANCE DATA	A44WG5260-R001 DATE ISSUED 10/14/19

FRAME 449LP	RPM 1785	S.F. 1.15	ROTOR 418143052ZEQ
HP 250	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 219	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0187
	AMB °C / INSUL 40/F	E/S 445260	OHMS (BETWEEN LINES)



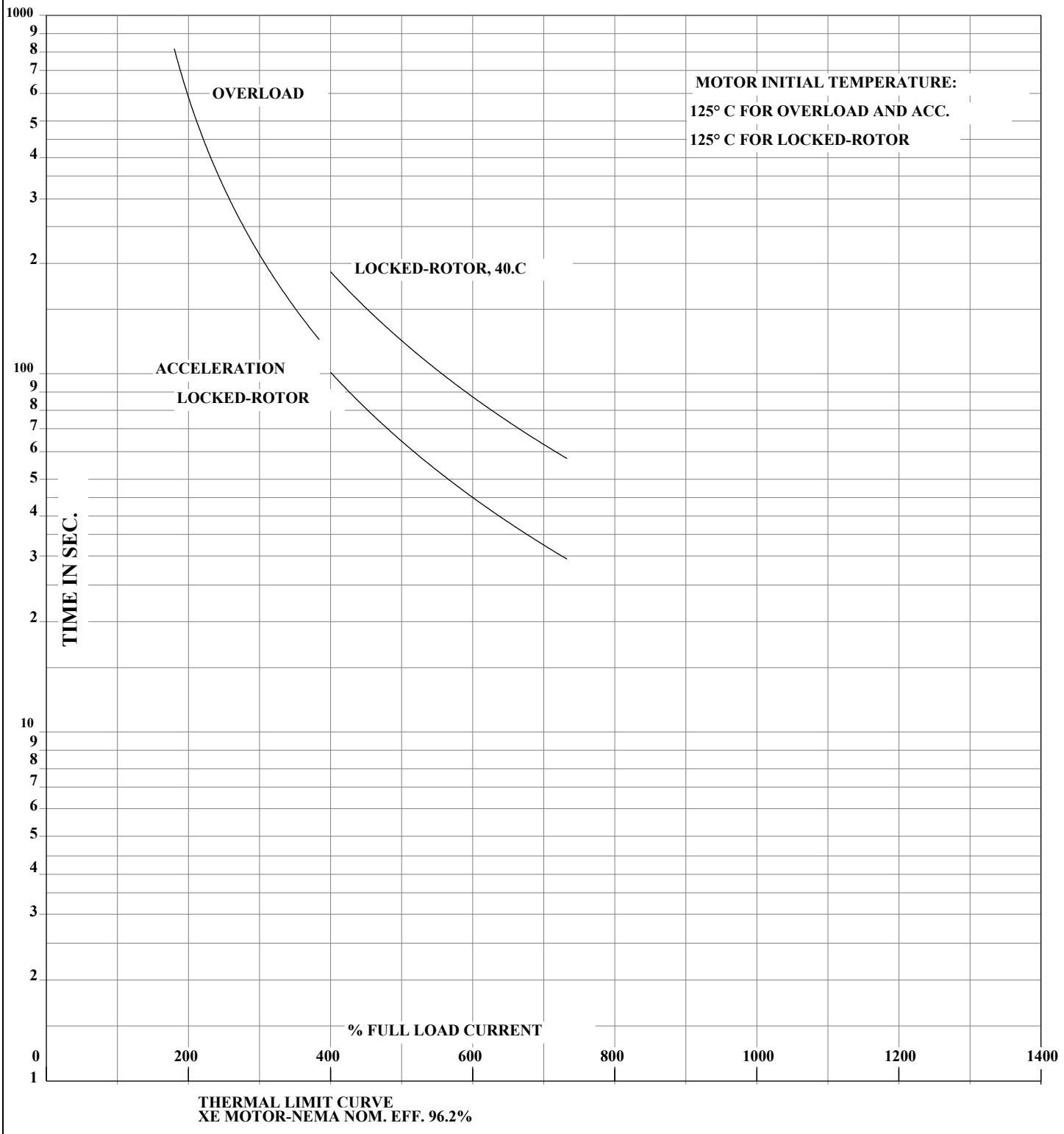
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ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

FRAME 449LP	RPM 1785	S.F. 1.15	ROTOR 418143052ZEQ
HP 250	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 219	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0187
	AMB °C / INSUL 40/F	E/S 445260	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 96.2%

AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

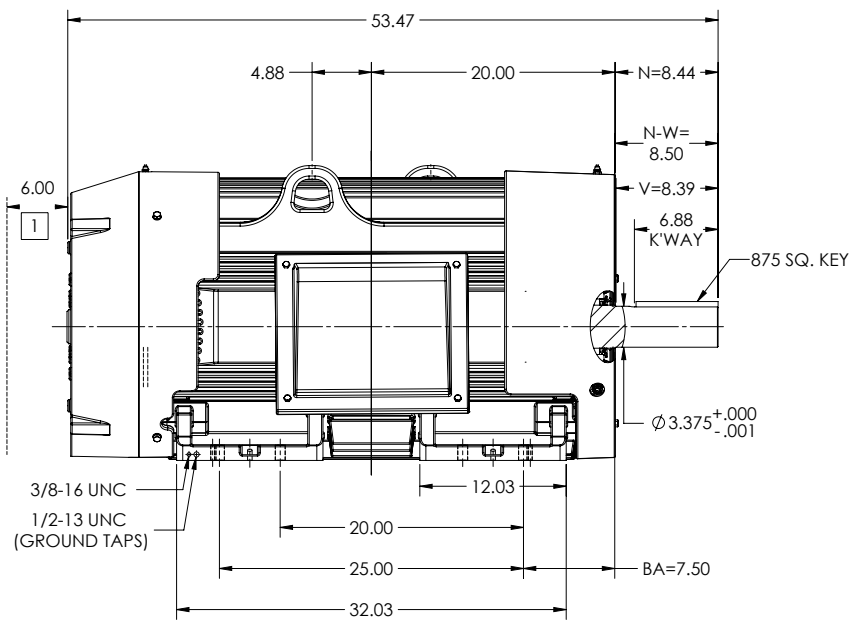
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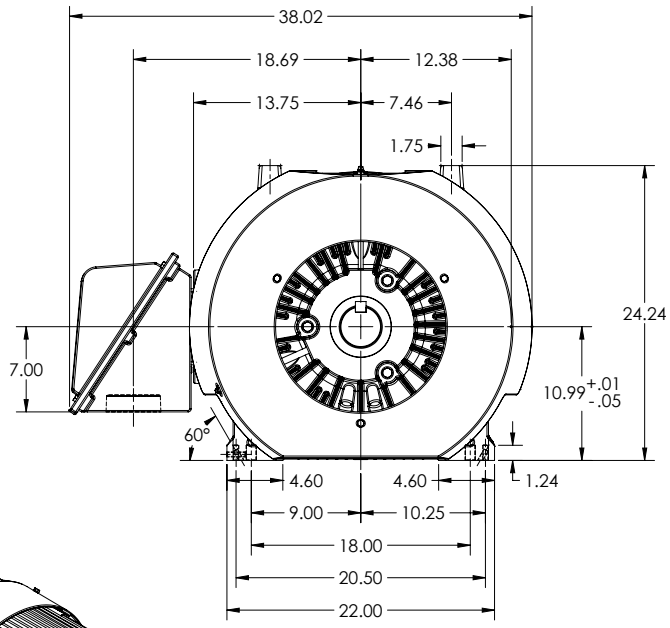
DUTY MASTER ALTERNATING CURRENT MOTORS

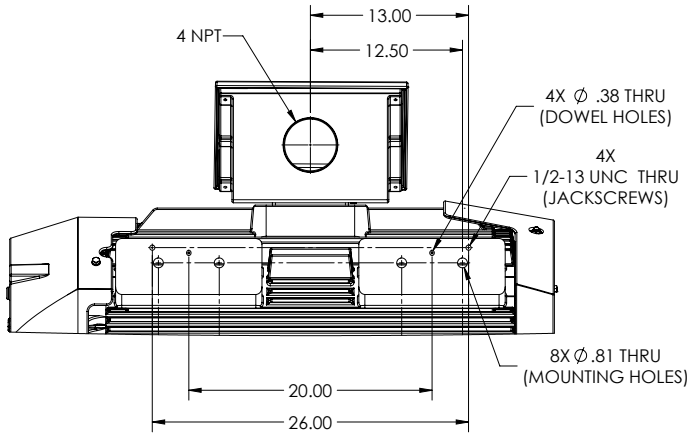
617434-665

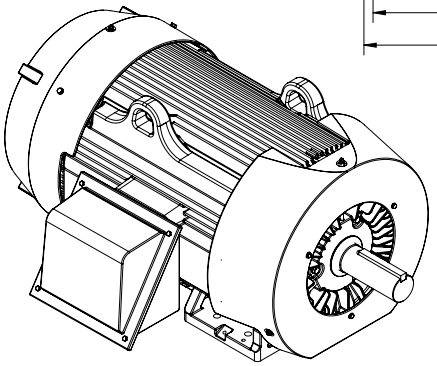
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 SIDE | G449T/G447T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL









1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 3080, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .0015 T.I.R

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: C	VERSION: 03	REVISED: 03:49:09 10/03/2022	TDR: 000001196512
MODEL NO. 617434-665			
BY: ENFRAJ0			C

BALDOR

G449/G447T TEFC FOOT F1 CAST IRON BOX/841-XL

617434-665

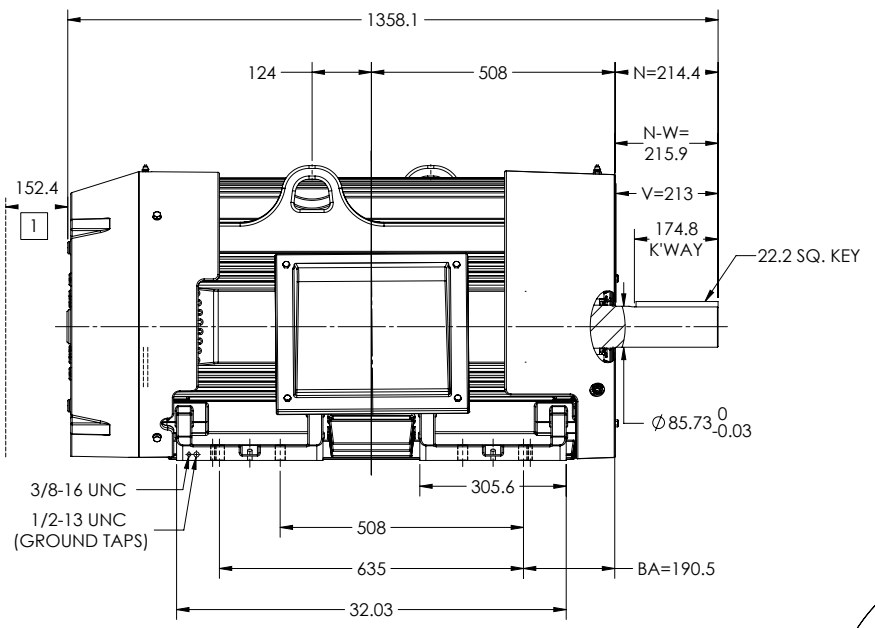
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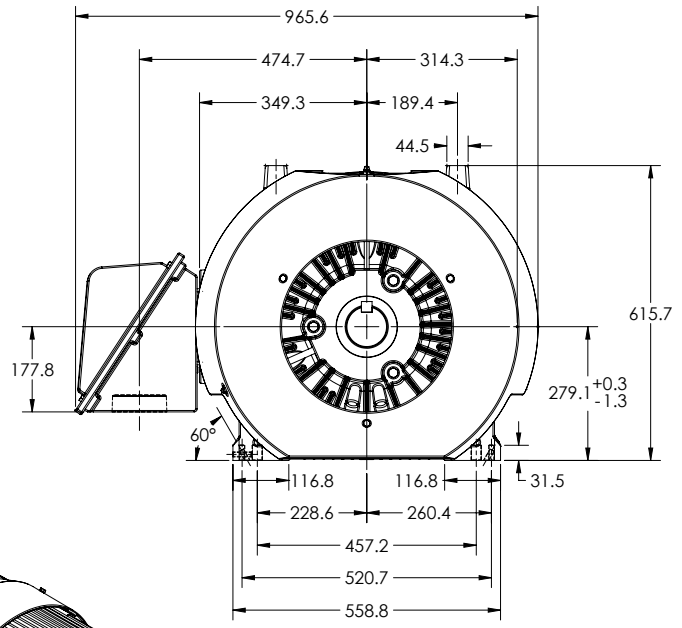
DUTY MASTER ALTERNATING CURRENT MOTORS

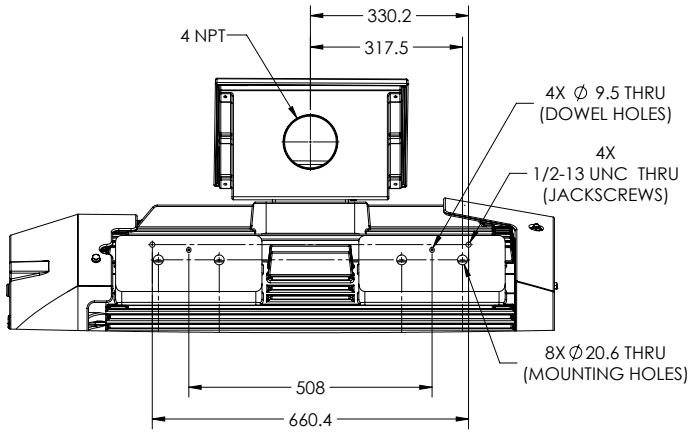
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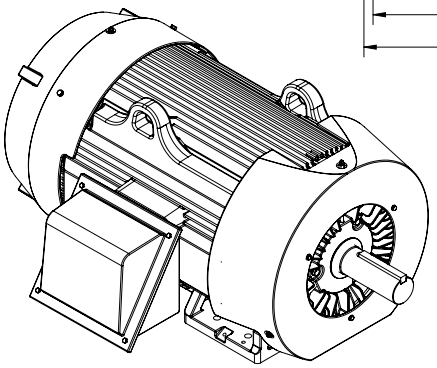
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MOUNTING: FOOT, F-1 SIDE | G449T/G447T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL









1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KGS): 1400, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .04 T.I.R

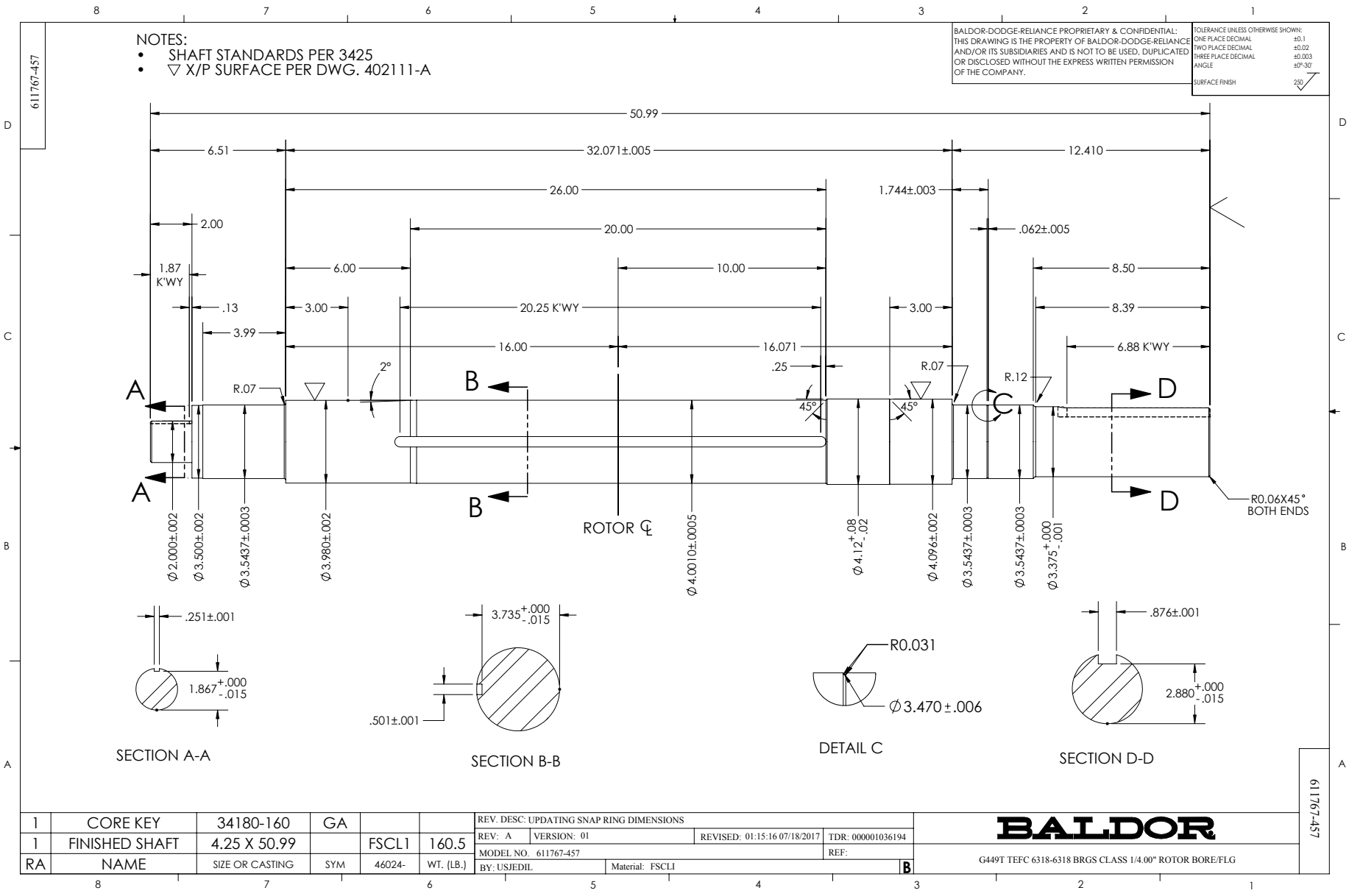
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REV: C	VERSION: 03	REVISED: 03:49:09 10/03/2022	TDR: 000001196512
MODEL NO. 617434-665			
BY: ENFRAJ0			C

BALDOR

G449/G447T TEFC FOOT F1 CAST IRON BOX/841-XL

617434-665

617434-665



1	CORE KEY	34180-160	GA			
1	FINISHED SHAFT	4.25 X 50.99		FSCL1	160.5	
RA	NAME	SIZE OR CASTING	SYM	46024-	WT. (LB.)	

REV. DESC: UPDATING SNAP RING DIMENSIONS
REV: A | VERSION: 01 | REVISED: 01:15:16 07/18/2017 | TDR: 000001036194
MODEL NO. 611767-457 | REF:
BY: USJEDIL | Material: FSCLI | B

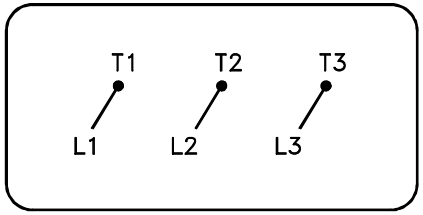
BALDOR

G449T TEFC 6318-6318 BRGS CLASS 1/4.00" ROTOR BORE/FLG

611767-457

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