ABB BALDOR RELIANCE

Customer information packet

ECP84408TR-4

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	460.0 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	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	30-60
Current @ Voltage	274.000 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	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	274.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5175
Layout	617434-667
Eff. date	07-14-2025
CD Diagram	416820-036
Poles	04
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	05-21-2025

Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	Other
Motor Type	A44160M
Mounting Arrangement	F1
No Load Current	79.3 a
Number of Poles	4
Overall Length	53.49 IN
Power Factor	88
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566												
CAT NO	ECP84408TR-4	**SPEC NO.**	A44-0002-5175									
HP	250	**AMPS**	274	**VOLTS**	460	**DESIGN**	B					
FRAME SIZE	449T	**RPM**	1785	**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**	G						
O.D.E. BRG.	90BC03J30X	**POWER FACTOR**	88	**NEMA-NOM-EFFICIENCY**	96.2							
3/4 LOAD EFF.	96.5	**IP**	56	**MAX CORR KVAR**	38	**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	ECP84408TR-4	**SPEC NO.**	A44-0002-5175		
NO. ROTOR BARS	58	**GREASE TYPE**	MOBIL SHC 220		
NO. SLOTS	72	**NL AMPS AT RATED VOLTAGE**		79.3	
5 YEAR WARRANTY		**WINDING RES @25 C**	.0114	**OHMS**	
MFG. DATE		**SER.NO**			

NP2496L
MOBIL SHC -220 GREASE

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	250	P	3/60	1785	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
445175	418143052ZE	---	---	.0114

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	79.3	1800	4.00	0
1/4	62.5	103	1796	60.2	94.3
2/4	125	151	1793	80.6	96.3
3/4	187	210	1789	86.6	96.5
4/4	250	274	1785	88.4	96.4
5/4	313	342	1781	89.1	96.0

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	163	1195	1825
PULL UP	1200	134	988	1536
BREAKDOWN	1726	276	2029	952
FULL LOAD	1785	100	735	274

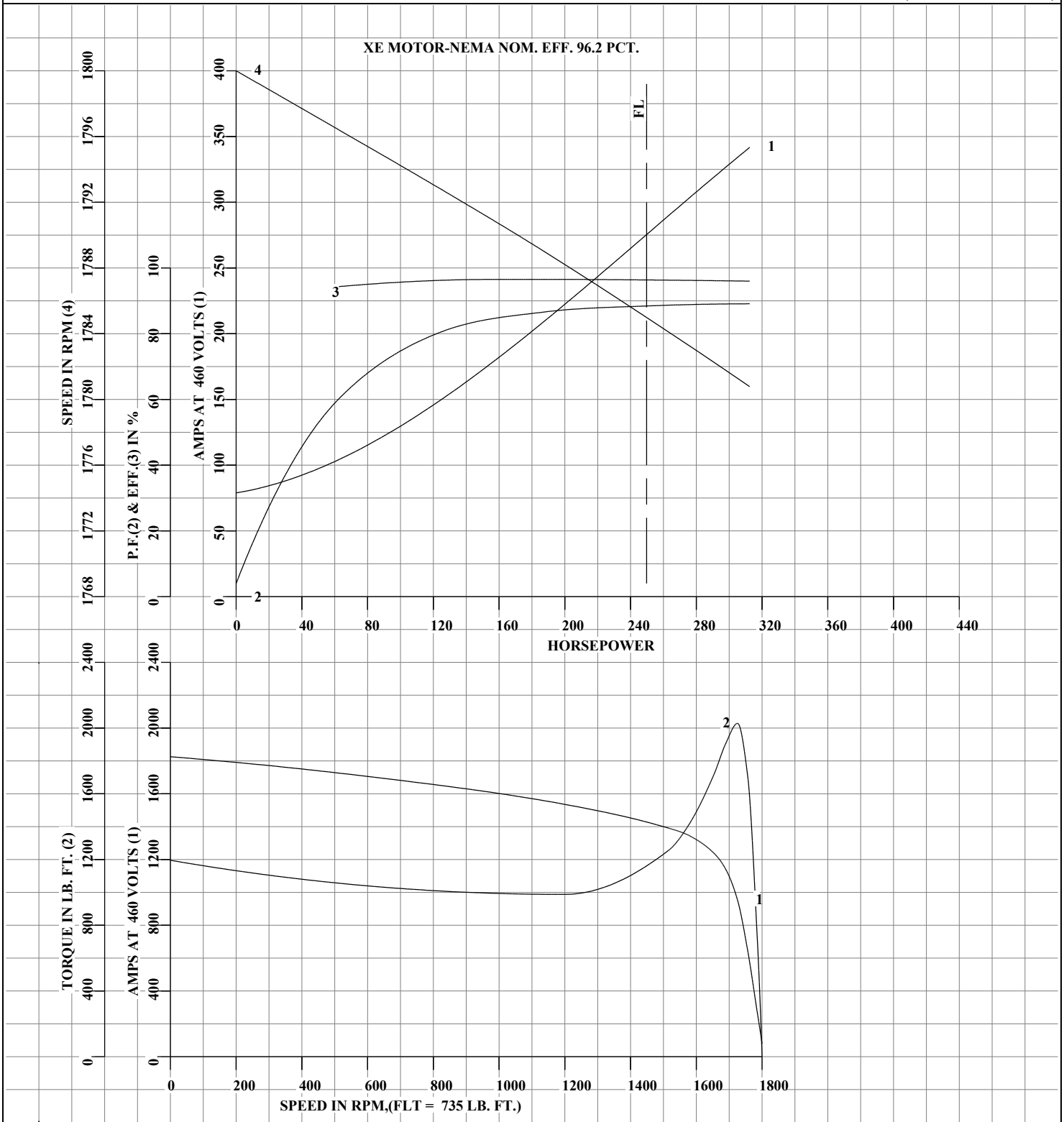
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

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

ABB	DRAWN BY: G. R. WEBB CHECKED BY: C. E. JAMISON APPROVED BY: W. L. SMITH DATE: 07/17/15	AC MOTOR PERFORMANCE DATA	A44WG5175-R002 DATE ISSUED 04/08/26

FRAME 449T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 250	AMPS 274	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0114
PHASE / HERTZ 3/60	AMB °C / INSUL 40/F	E/S 445175	OHMS (BETWEEN LINES)

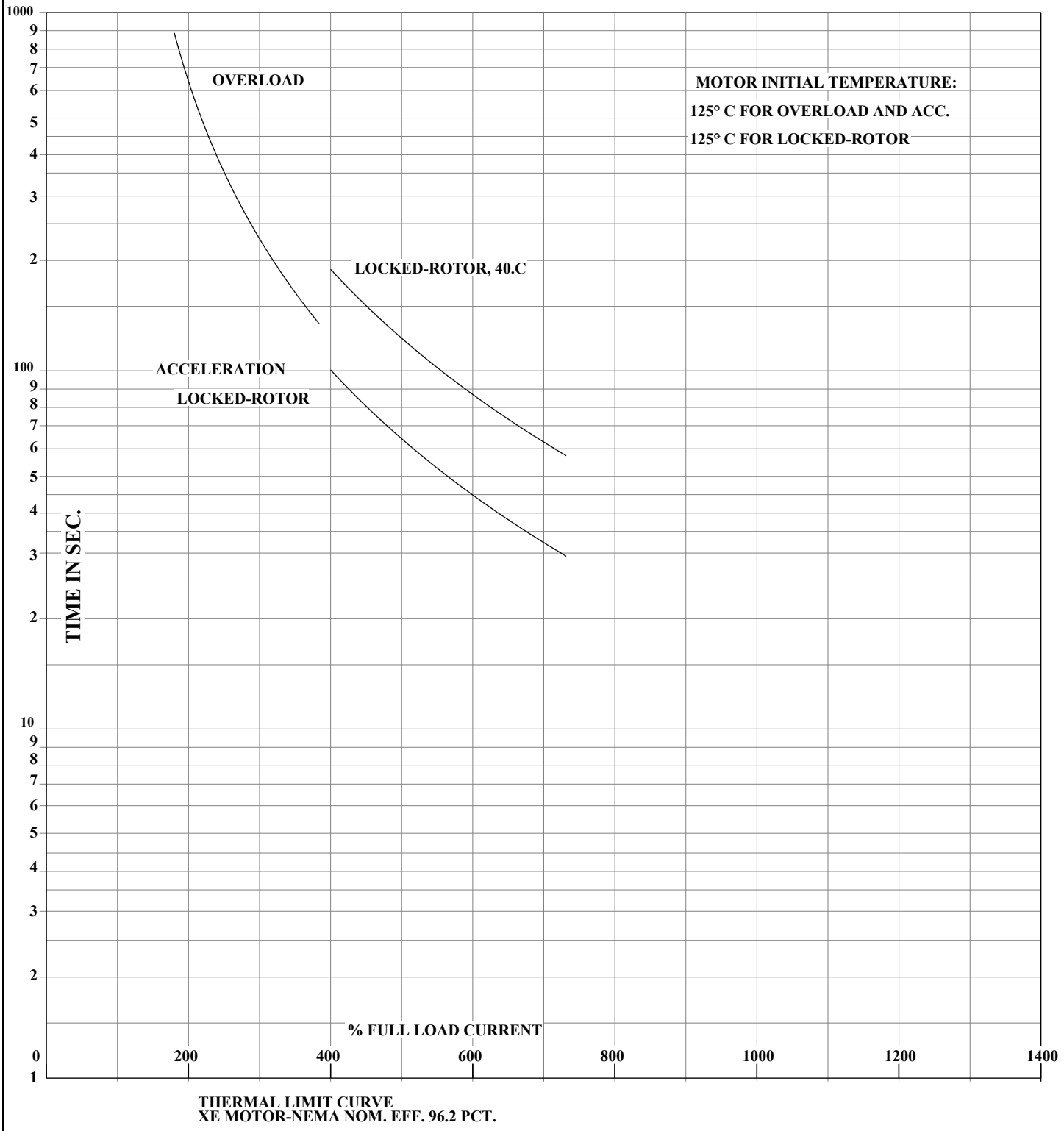
RPM 1785 S.F. 1.15 ROTOR 418143052ZE



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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HP 250	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 274	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0114
	AMB °C / INSUL 40/F	E/S 445175	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-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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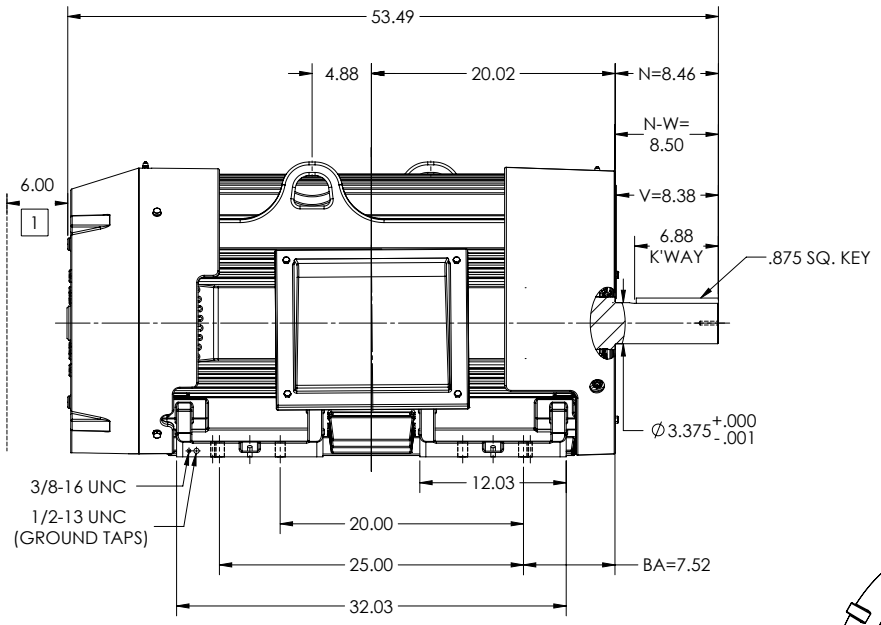
DUTY MASTER ALTERNATING CURRENT MOTORS

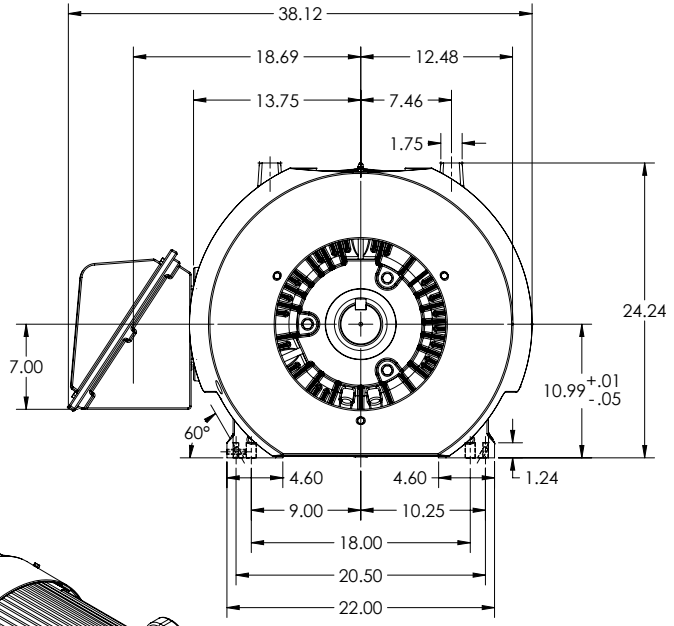
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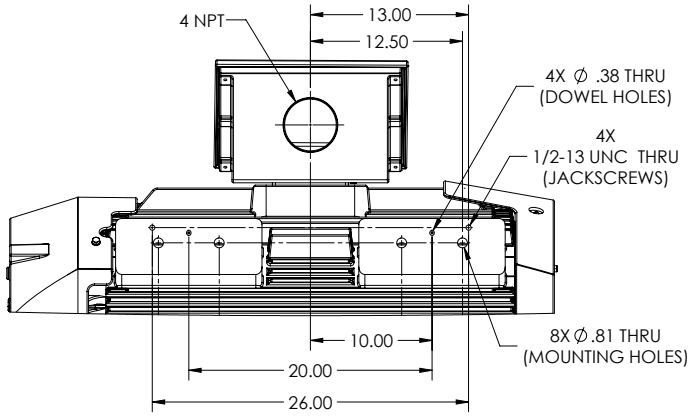
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

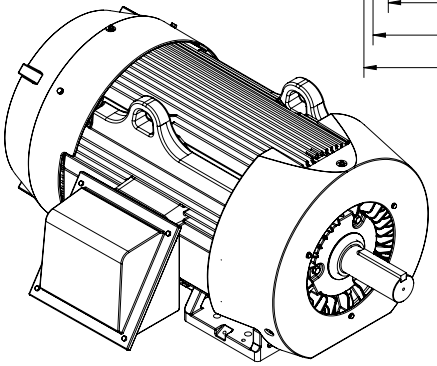
MOUNTING: FOOT, F-1 SIDE | G449T/G447T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL

ROLLER BEARING DESIGN









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 .002 T.I.R

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: B	VERSION: 02	REVISED: 04:06:23 10/03/2022	TDR: 000001196512
MODEL NO. 617434-667			
BY: ENFRAJ0			C

BALDOR

G449/447T TEFC FT F1 CI BOX/JACKSCREWS/DOWELS/INPROS/ROLLER

617434-667

617434-667

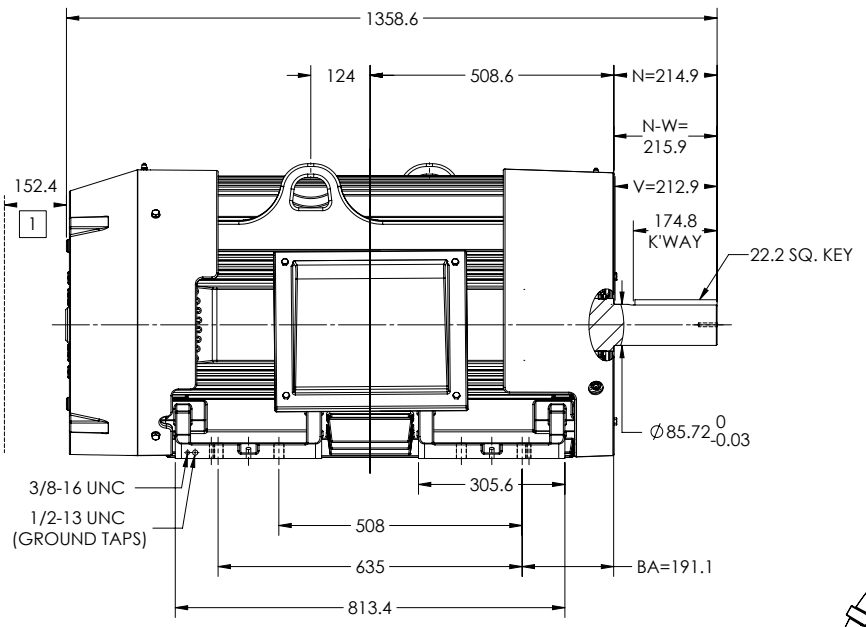
DUTY MASTER ALTERNATING CURRENT MOTORS

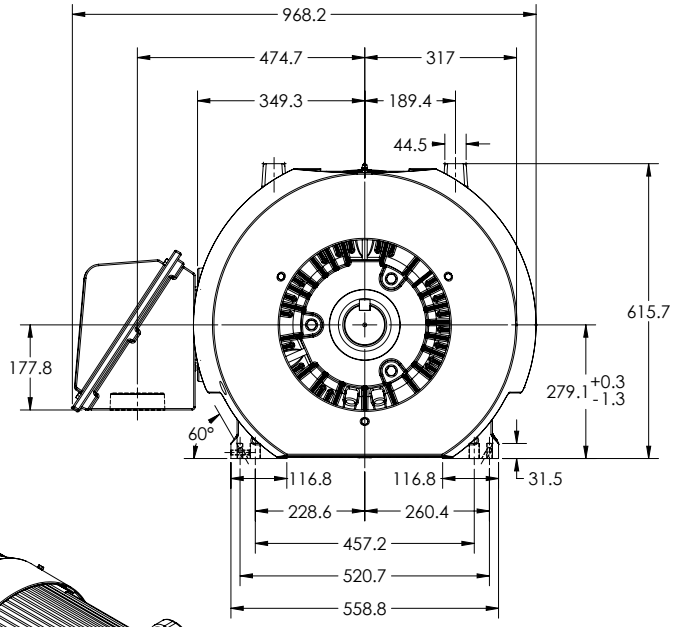
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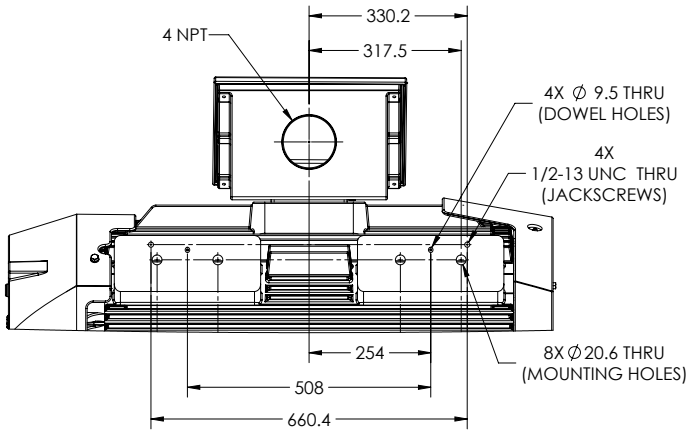
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

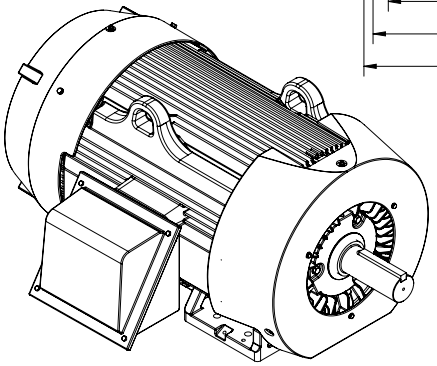
MOUNTING: FOOT, F-1 SIDE | G449T/G447T FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL

ROLLER BEARING DESIGN









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 .05 T.I.R

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: B	VERSION: 02	REVISED: 04:06:23 10/03/2022	TDR: 000001196512
MODEL NO. 617434-667			
BY: ENFRAJ0			C

BALDOR

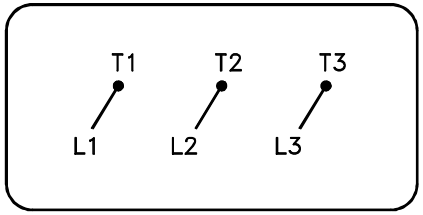
G449/447T TEFC FT F1 CI BOX/JACKSCREWS/DOWELS/INPROS/ROLLER

617434-667

617434-667

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