ABB BALDOR RELIANCE

Customer information packet

ECP84411TR-4

125HP, 1188RPM, 3PH, 60HZ, 445T, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	445T
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	125.000 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	146.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	146.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	G

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3350
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	06
Leads	3#1
Proprietary	False
Created date	08-06-2019

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	None
Motor Type	A44090M
Mounting Arrangement	F1
No Load Current	50.2 a
Number of Poles	6
Overall Length	44.97 IN
Power Factor	84
Pulley End Bearing Type	Roller
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	None

Nameplate

NP4566												
CAT NO	ECP84411TR-4	**SPEC NO.**	A44-9130-3350									
HP	125	**AMPS**	146	**VOLTS**	460	**DESIGN**	B					
FRAME SIZE	445T	**RPM**	1188	**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**	84	**NEMA-NOM-EFFICIENCY**	95							
3/4 LOAD EFF.	95.3	**IP**	56	**MAX CORR KVAR**	30	**GUARANTEED EFFICIENCY**	94.1					
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	ECP84411TR-4	**SPEC NO.**	A44-9130-3350		
NO. ROTOR BARS	71	**GREASE TYPE**	MOBIL SHC 220		
NO. SLOTS	90	**NL AMPS AT RATED VOLTAGE**		50.2	
5 YEAR WARRANTY		**WINDING RES @25 C**	.0364	**OHMS**	
MFG. DATE		**SER.NO**			

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	125	P	3/60	1188	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
498802	418143098ME	---	---	.0377

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	44.6	1200	4.33	0
1/4	31.3	64.2	1197	49.1	92.9
2/4	62.5	86.3	1195	71.2	95.3
3/4	93.7	114	1192	80.3	95.6
4/4	125	146	1189	84.1	95.4
5/4	156	180	1186	85.6	94.9

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	136	751	976
PULL UP	168	120	665	938
BREAKDOWN	1148	267	1474	561
FULL LOAD	1189	100	552	146

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

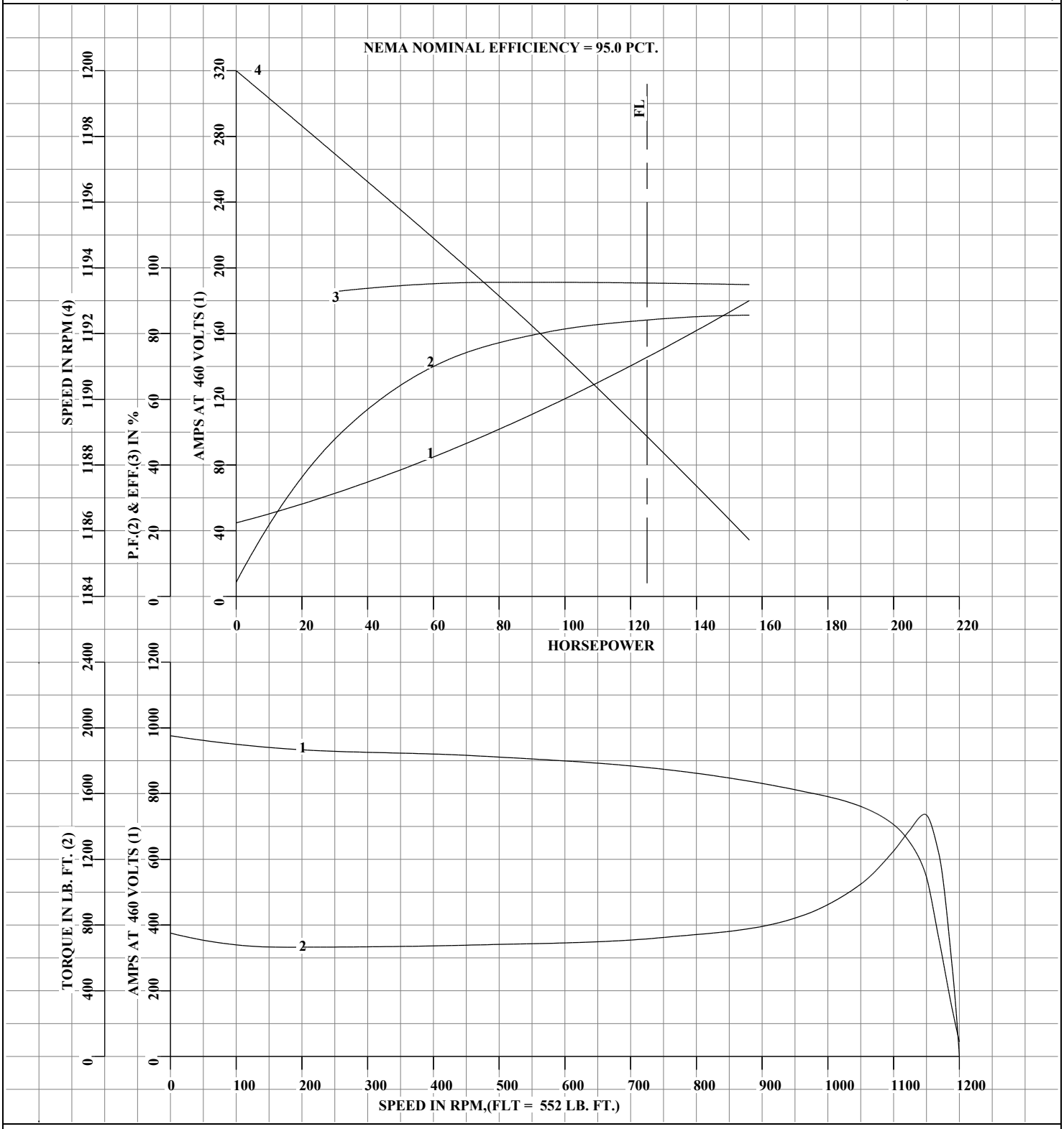
TYPICAL DATA
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

ABB	DRAWN BY: W. L. SMITH CHECKED BY: J.J.HARRISON APPROVED BY: W. L. SMITH DATE: 04/20/10	AC MOTOR PERFORMANCE DATA	A44WG3350-R001 DATE ISSUED 08/09/19

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

RPM 1188	**S.F. 1.15**	**ROTOR 418143098ME**
FRAME 445T	**VOLTS 460**	**NEMA DESIGN B**	**TEST S.O. TYPICAL DATA**
HP 125	**AMPS 146**	**CODE LETTER G**	**TEST DATE ---**
TYPE P	**DUTY CONT**	**ENCLOSURE TEFC**	**STATOR RES. @ 25°C .0377**
PHASE / HERTZ 3/60	**AMB °C / INSUL 40/F**	**E/S 498802**	**OHMS (BETWEEN LINES)**



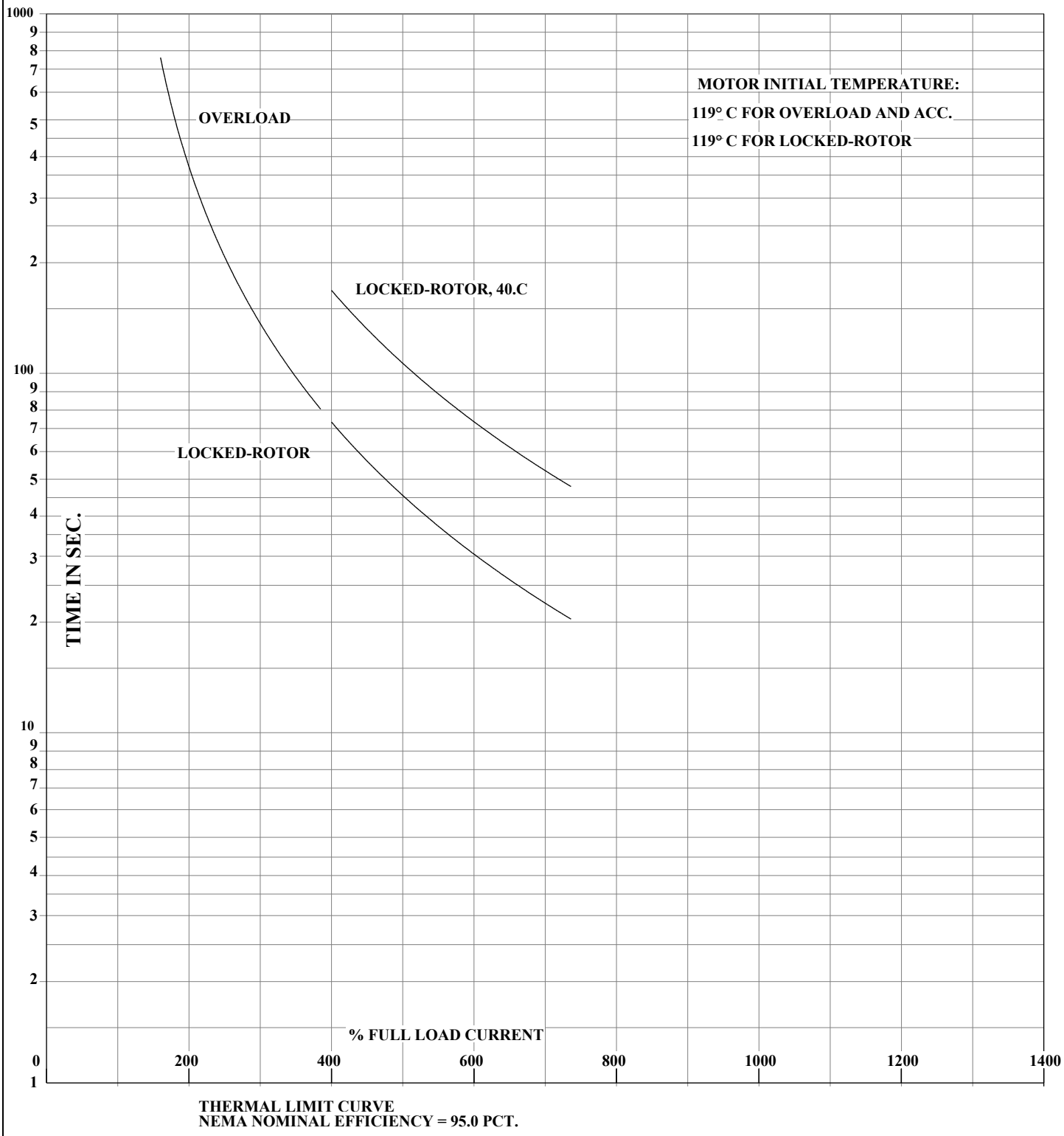
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ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

FRAME 445T	**RPM** 1188	**S.F.** 1.15	**ROTOR** 418143098ME
HP 125	**VOLTS** 460	**NEMA DESIGN** B	**TEST S.O.** TYPICAL DATA
TYPE P	**AMPS** 146	**CODE LETTER** G	**TEST DATE** ---
PHASE / HERTZ 3/60	**DUTY** CONT	**ENCLOSURE** TEFC	**STATOR RES. @ 25°C** .0377
	AMB °C / INSUL 40/F	**E/S** 498802	**OHMS (BETWEEN LINES)**



THERMAL LIMIT CURVE
NEMA NOMINAL EFFICIENCY = 95.0 PCT.

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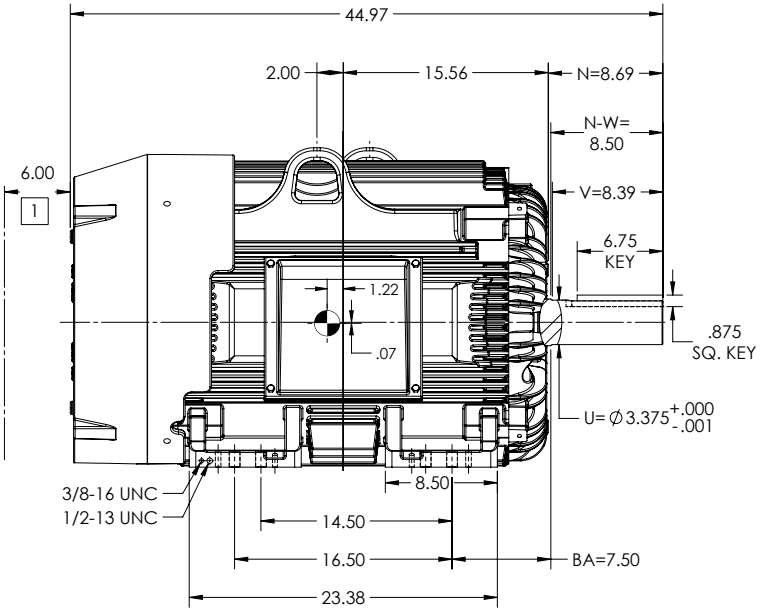
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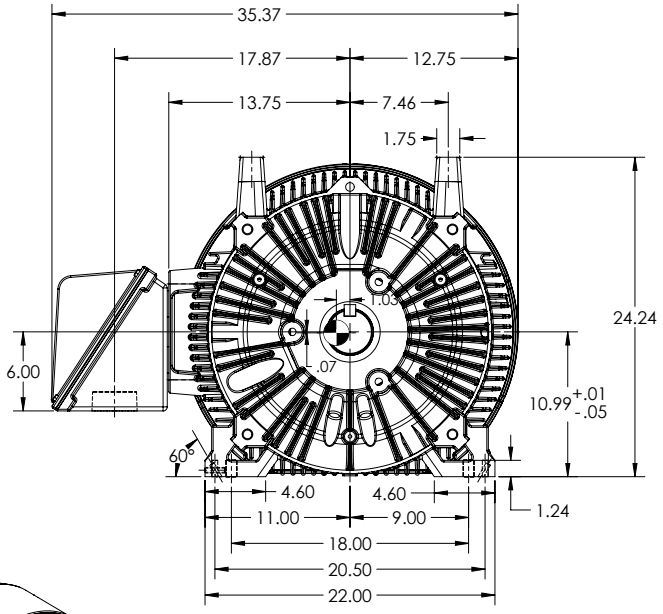
DUTY MASTER ALTERNATING CURRENT MOTORS

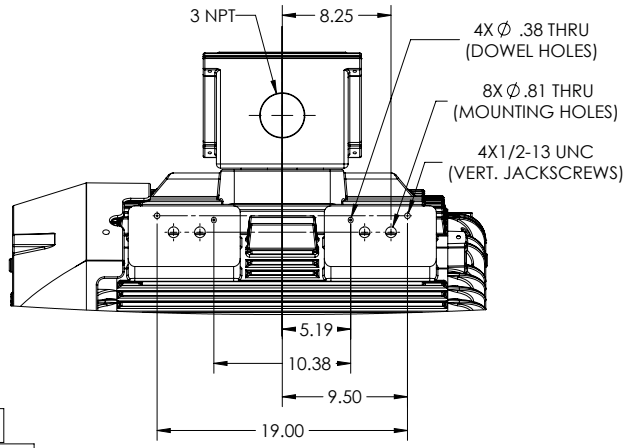
617434-660

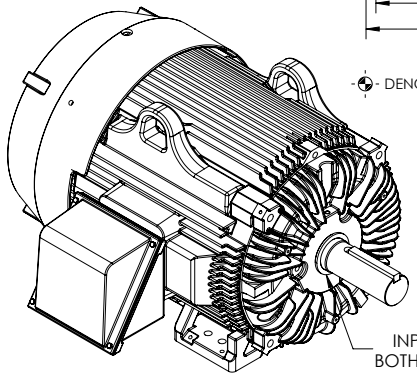
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 SIDE | G445T/G444T FRAME MOUNTING HOLES CENTER OF GRAVITY | 841-XL ENHANCEMENT









⊕ - DENOTES CENTER OF GRAVITY WHICH VARIES BY ±1.00 INCH

1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

DIMENSIONS ARE IN INCHES.
MOTOR WEIGHTS (LBS) = 2130 ±15% DEPENDING ON RATING.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .0015 T.I.R.(BALL) OR .002 T.I.R.(ROLLER)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 2

617434-660

REV. DESC: ADD CENTER GRAVITY			
REV: C	VERSION: 03	REVISED: 08:56:38 03/10/2020	TDR: 000001134943
MODEL NO. 617434-660			REF:
BY: RAGGDM	Material:		C

BALDOR

G445/444T TEFC F1 FTD/CI BX/JACKSCREWS/DOWEL PINS/INPROS/CG

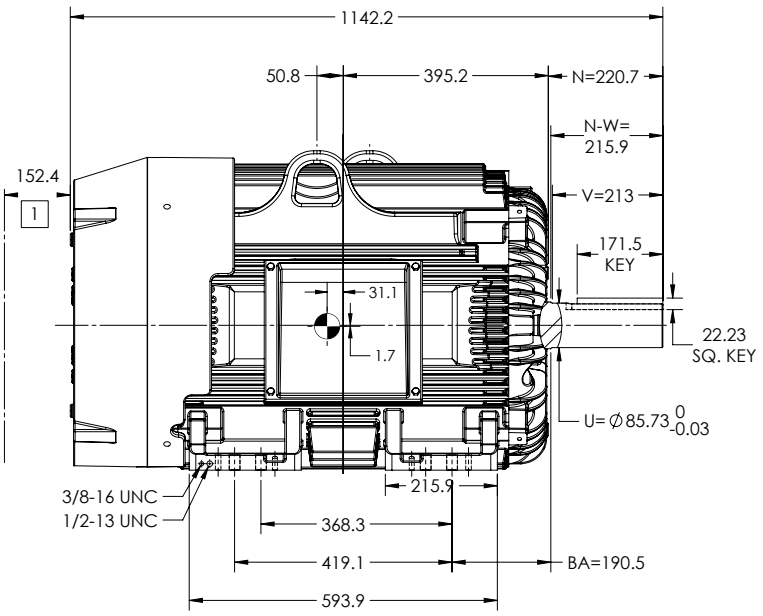
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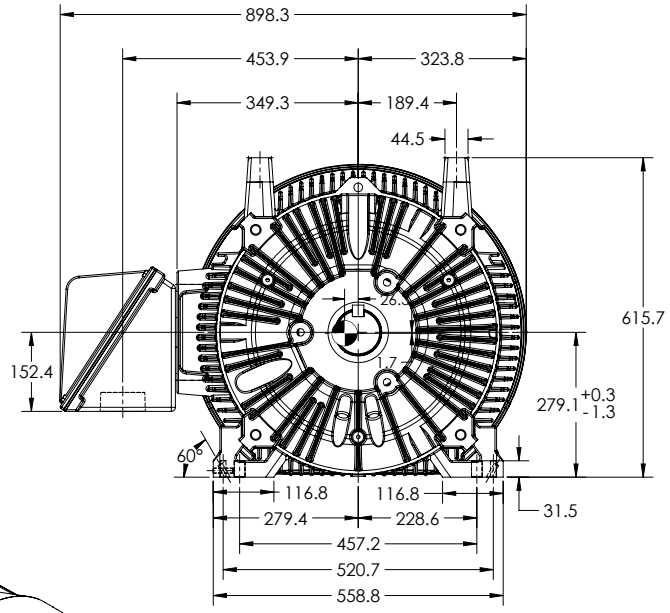
DUTY MASTER ALTERNATING CURRENT MOTORS

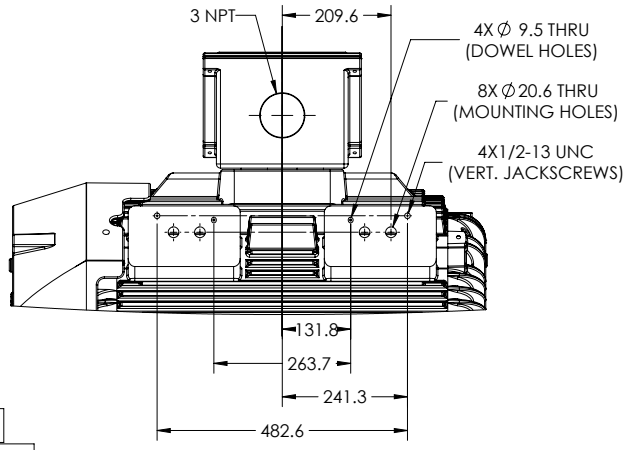
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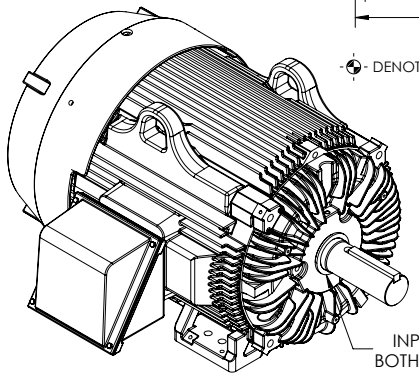
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MOTOR WEIGHTS (KGS) = 970 ±15% DEPENDING ON RATING.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .04 T.I.R.(BALL) OR .05 T.I.R.(ROLLER)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 2 OF 2

617434-660

REV. DESC: ADD CENTER GRAVITY			
REV: C	VERSION: 03	REVISED: 08:56:38 03/10/2020	TDR: 000001134943
MODEL NO. 617434-660			REF:
BY: RAGGDM	Material:		C

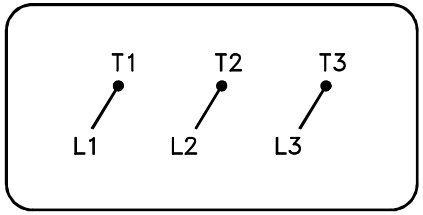
BALDOR

G445/444T TEFC F1 FTD/CI BX/JACKSCREWS/DOWEL PINS/INPROS/CG

617434-660

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