ABB BALDOR RELIANCE

Customer information packet

ECP84406T-5

150HP, 1785RPM, 3PH, 60HZ, 445T, A4488M, TEFC
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	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSA US
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	135.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	135.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3784
Layout	617434-660
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1
Proprietary	False
Created date	03-14-2022

Motor Standards	None
Motor Type	A4488M
Mounting Arrangement	F1
No Load Current	43.3 a
Number of Poles	4
Overall Length	44.97 IN
Power Factor	86
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	ECP84406T-5	**SPEC NO.**	A44-0000-3784								
HP	150	**AMPS**	135	**VOLTS**	575	**DESIGN**	B				
FRAME SIZE	445T	**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**	F						
O.D.E. BRG.	90BC03J30X	**POWER FACTOR**	86	**NEMA-NOM-EFFICIENCY**	95.8						
3/4 LOAD EFF.	96.0	**IP**	56	**MAX CORR KVAR**	30	**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	ECP84406T-5	**SPEC NO.**	A44-0000-3784		
NO. ROTOR BARS	58	**GREASE TYPE**	POLYREX EM		
NO. SLOTS	72	**NL AMPS AT RATED VOLTAGE**		43.3	
5 YEAR WARRANTY		**WINDING RES @25 C**	0.046	**OHMS**	
MFG. DATE		**SER.NO**			

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445LP	150	P	3/60	1785	575

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25°C OHMS (BETWEEN LINES)
498866	0	---	---	.0465

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	39.2	1800	4.26	0
1/4	37.6	55.4	1796	54.3	93.6
2/4	75.0	77.8	1792	75.5	95.7
3/4	112	105	1788	83.3	96.0
4/4	150	136	1784	86.3	95.8
5/4	188	169	1779	87.3	95.3

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	130	572	833
PULL UP	270	116	511	816
BREAKDOWN	1729	280	1237	463
FULL LOAD	1784	100	442	136

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

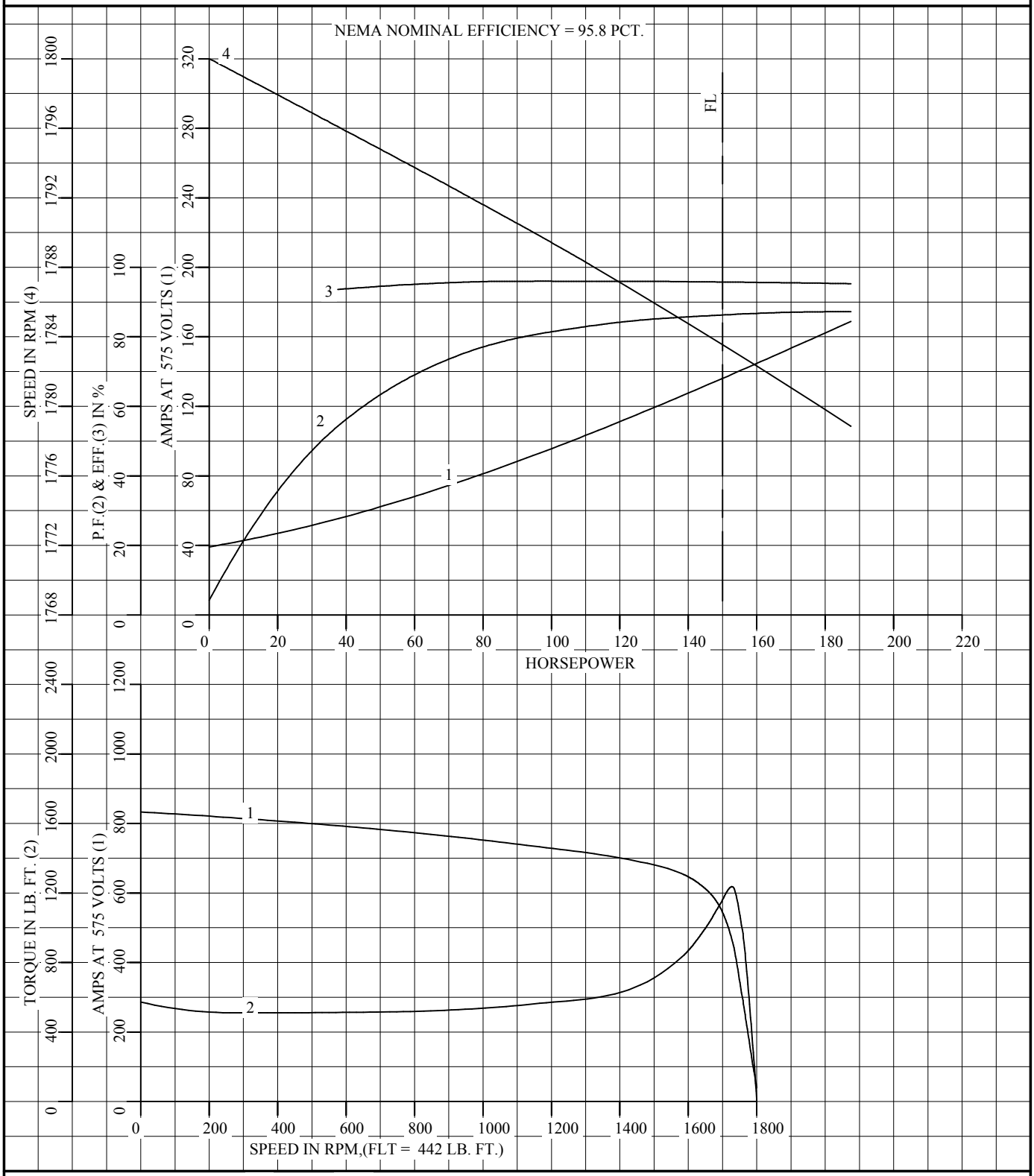
REMARKS: TYPICAL DATA
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY C. JAMISON
CK. BY W. SMITH
APP. BY W. SMITH
DATE 1/18/11

A-C MOTOR PERFORMANCE DATA A44WG3784-R001
ISSUE DATE 06/18/18

REL S.O.		RPM	1785	S.F.	1.15	ROTOR	0
FRAME	445LP	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	150	AMPS	135	CODE LETTER	F	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 ℃	.0465
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	E/S	498866		OHMS (BETWEEN LINES)



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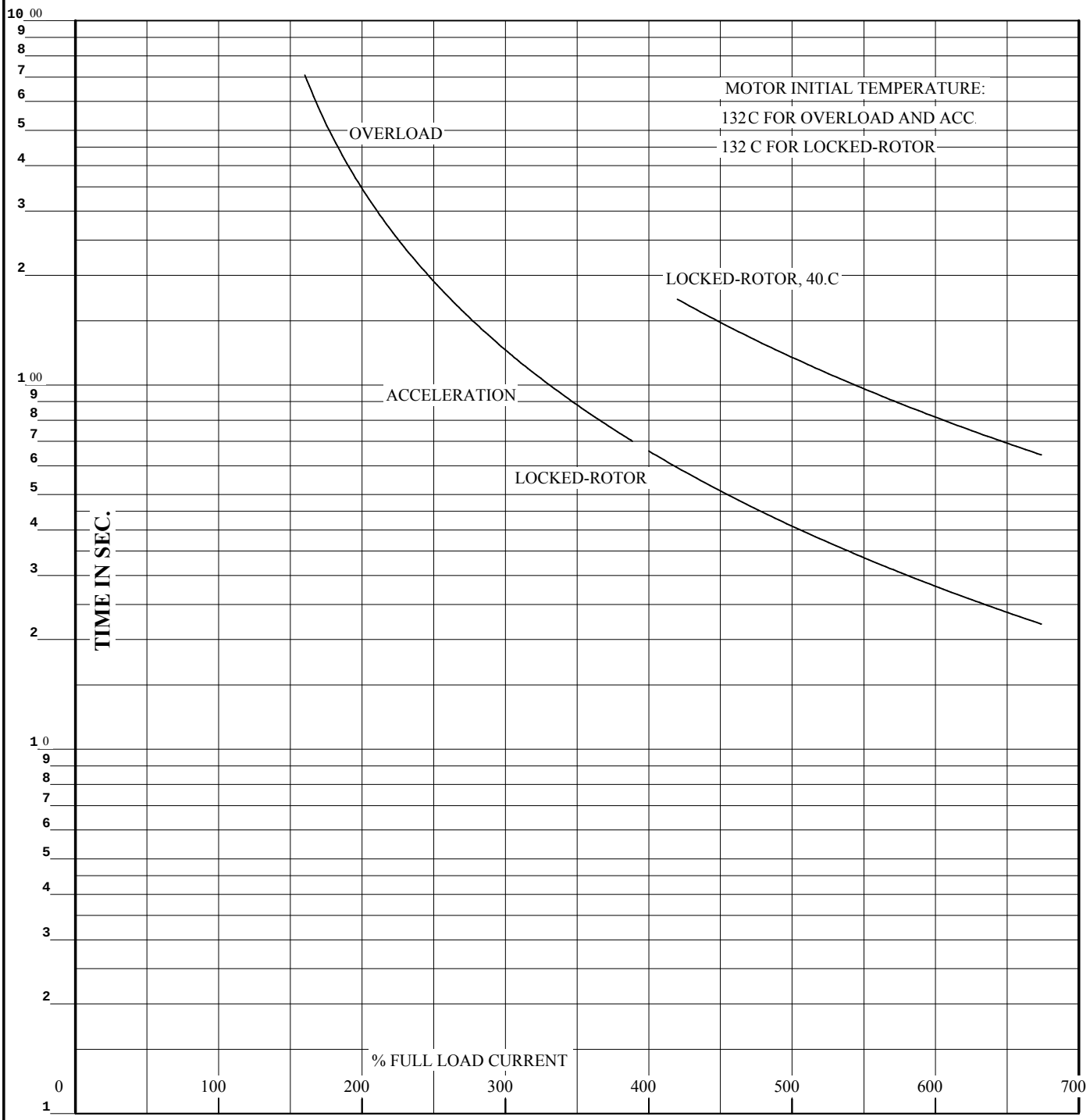
DR. BY	C. JAMISON
CK. BY	W. SMITH
APP. BY	W. SMITH
DATE	1/18/11

A-C MOTOR PERFORMANCE CURVES

A44WG3784-R001

ISSUE DATE 06/18/18

REL. S.O.	RPM 1785	S.F. 1.15	ROTOR 0
FRAME 445LP	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 135	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0465
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 498866	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOMINAL EFFICIENCY = 95.8 PCT.

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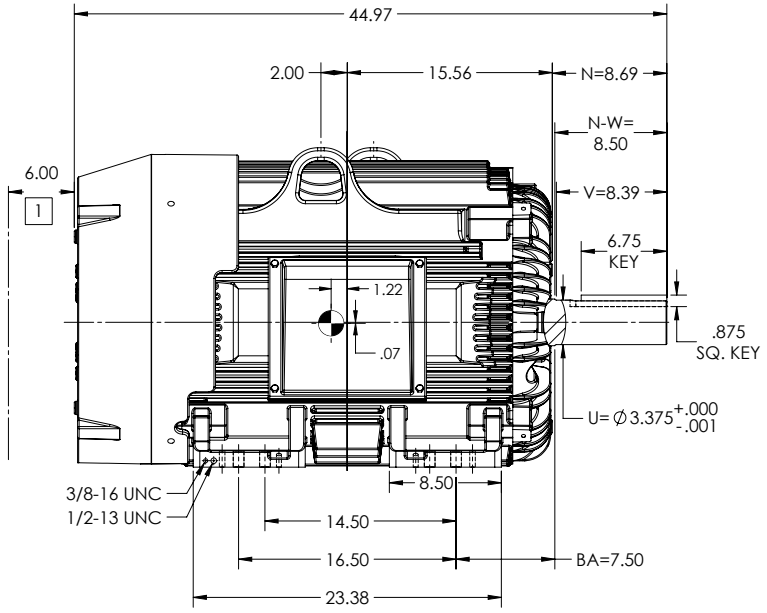
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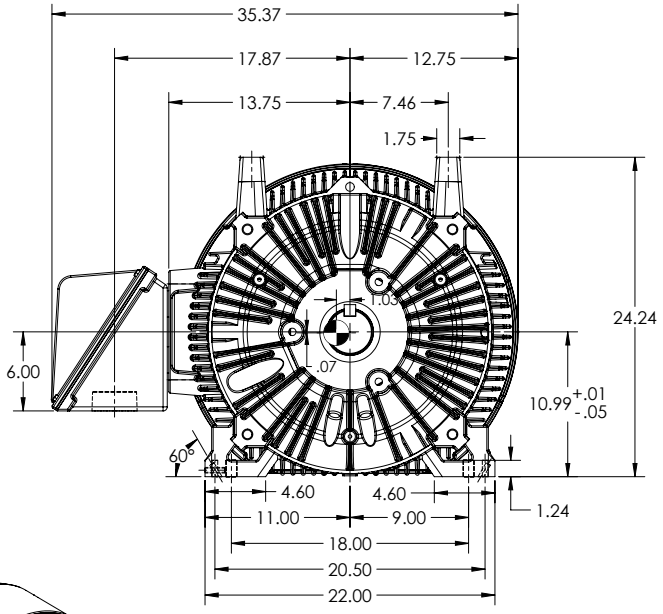
DUTY MASTER ALTERNATING CURRENT MOTORS

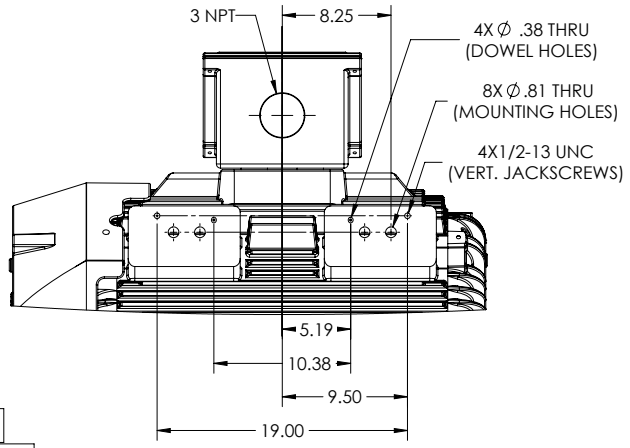
617434-660

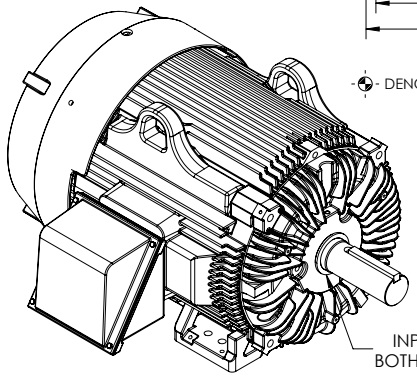
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

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

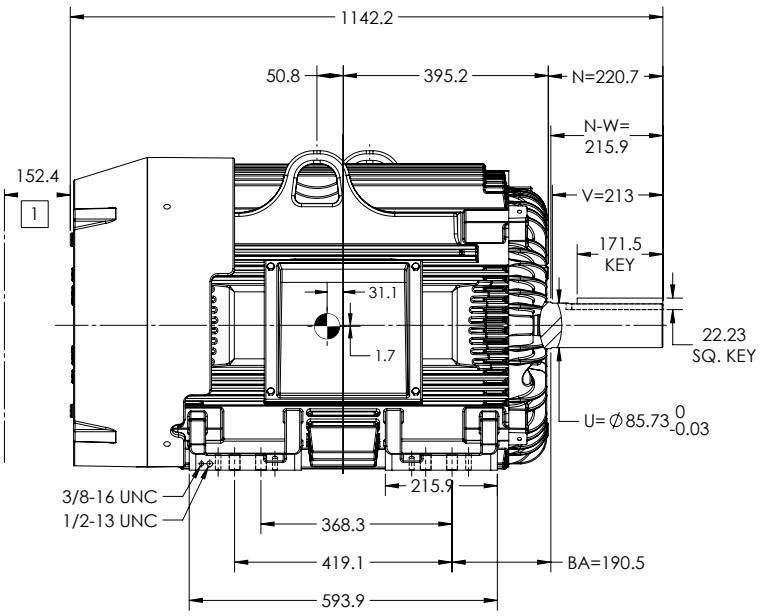
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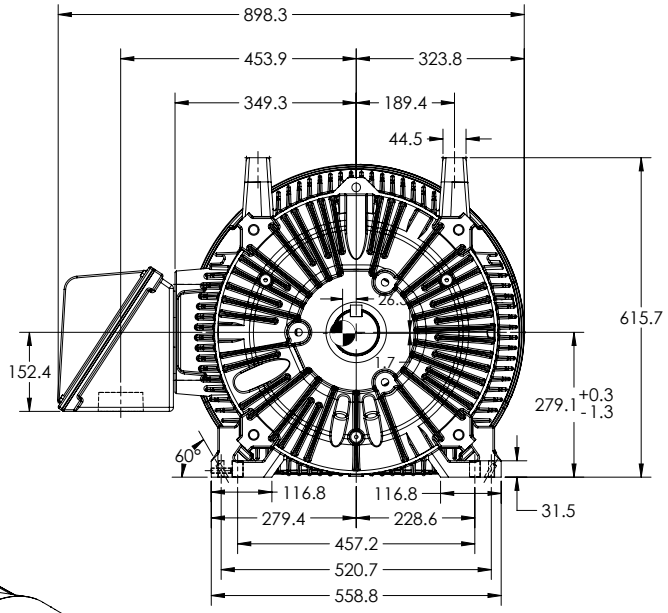
DUTY MASTER ALTERNATING CURRENT MOTORS

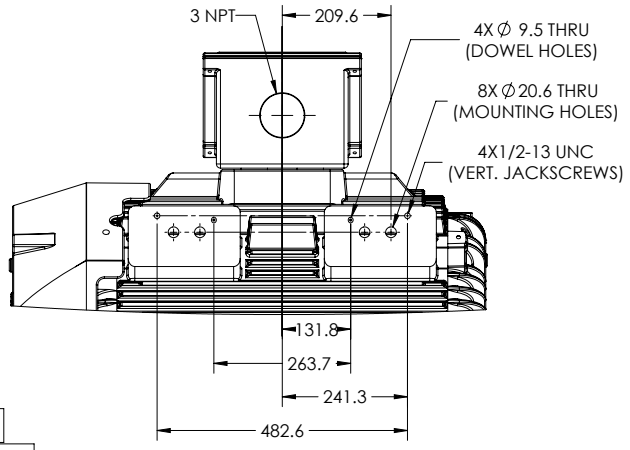
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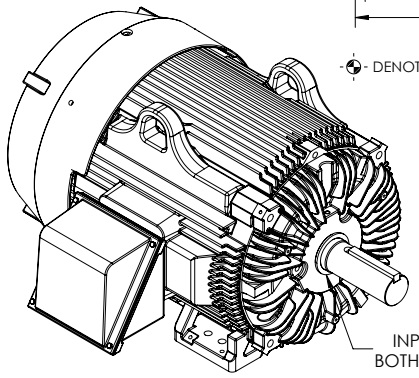
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

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 MILLIMETERS.
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

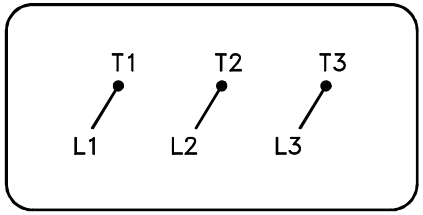
BALDOR

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