ABB BALDOR RELIANCE

Customer information packet

ECP84412T-5

125HP, 3570RPM, 3PH, 60HZ, 444TS, A4468M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	444TS
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	3600 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	30-60
Current @ Voltage	110.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	110.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
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.	A44WG5720
Layout	617434-659
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	02
Leads	3#1
Proprietary	False
Created date	03-10-2022

Motor Standards	None
Motor Type	A4468M
Mounting Arrangement	F1
No Load Current	25.0 a
Number of Poles	2
Overall Length	41.22 IN
Power Factor	89
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	Shaft Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566												
CAT NO	ECP84412T-5		**SPEC NO.**	A44-0000-5720								
HP	125	**AMPS**	110		**VOLTS**	575			**DESIGN**	B		
FRAME SIZE	444TS	**RPM**	3570	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	6313		**O.D.E. BRG.DATA**	6313		**PH**	3	**DUTY**	CONT	**INSUL.CLASS**	F	
D.E. BRG.	65BC03J30X		**TYPE**	**ENCL**	TEFC	**CODE**	G					
O.D.E. BRG.	65BC03J30X		**POWER FACTOR**	89				**NEMA-NOM-EFFICIENCY**	95			
3/4 LOAD EFF.	95.4	**IP**	56		**MAX CORR KVAR**	18		**GUARANTEED EFFICIENCY**	94.1			
TEMP CODE	T3	**TEMP =**	200									
CHP HZ	60-75	**CT HZ**	30-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.			**MOTOR WEIGHT**									

000613007EX					
CAT NO	ECP84412T-5	**SPEC NO.**	A44-0000-5720		
NO. ROTOR BARS	40	**GREASE TYPE**	POLYREX EM		
NO. SLOTS	48	**NL AMPS AT RATED VOLTAGE**		25	
5 YEAR WARRANTY		**WINDING RES @25 C**	.0532	**OHMS**	
MFG. DATE		**SER.NO**			

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	444TS	125	P	3/60	3570	575

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
-	418143-8-RE	---	---	.0532

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	25.0	3600	7.72	0
1/4	31.3	41.5	3593	61.6	91.7
2/4	62.5	61.6	3586	80.2	94.7
3/4	93.8	84.9	3579	86.8	95.4
4/4	125	110	3572	89.2	95.3
5/4	156	137	3564	89.9	95.0

SPEED TORQUE

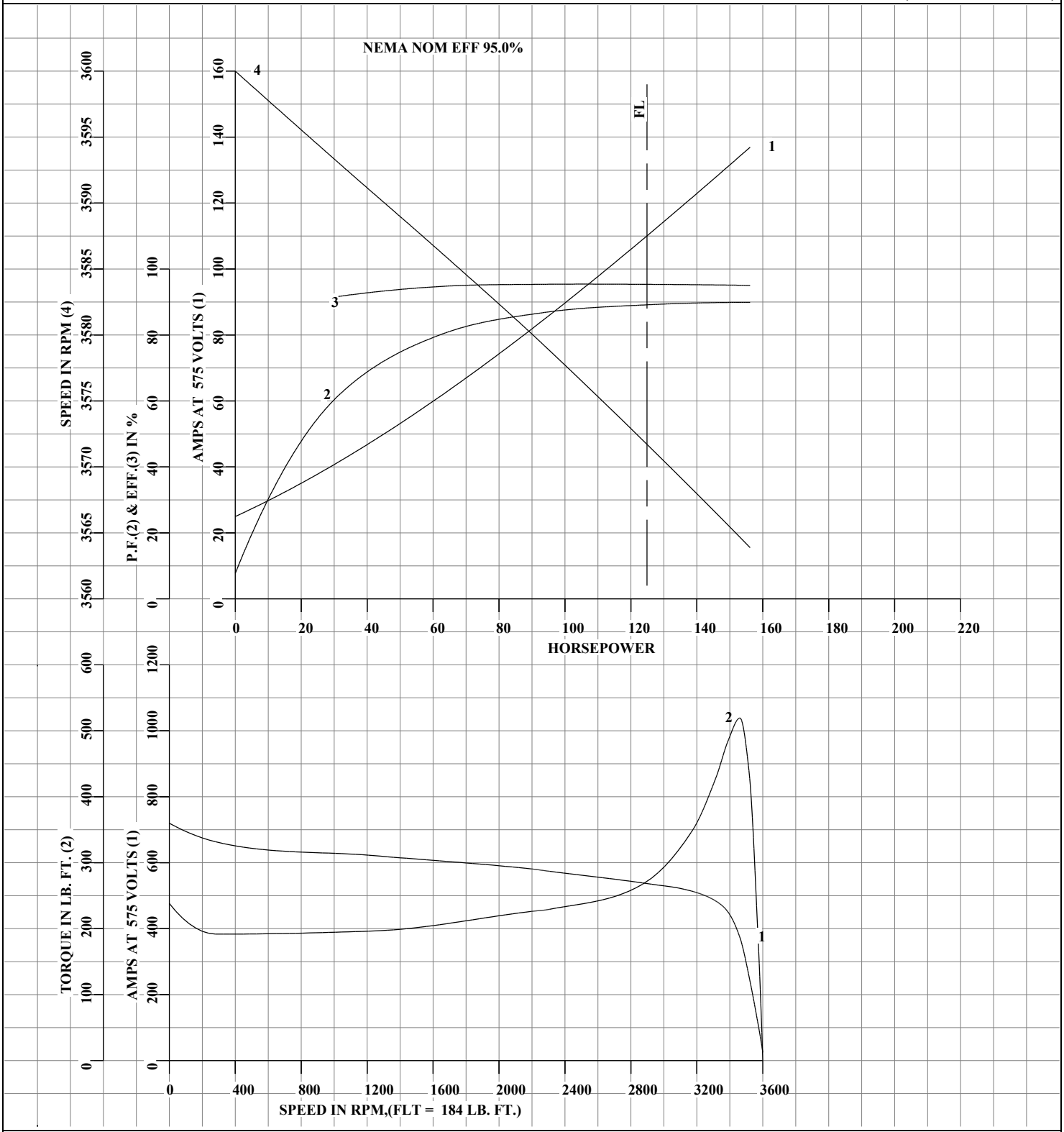
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	130	238	720
PULL UP	288	104	192	663
BREAKDOWN	3461	283	519	373
FULL LOAD	3572	100	184	110

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

TYPICAL DATA
NEMA NOM EFF 95.0%

ABB	DRAWN BY: J. P. TSAO CHECKED BY: W. L. SMITH APPROVED BY: E. J. CHRISTIAN DATE: 02/05/20	AC MOTOR PERFORMANCE DATA	A44WG5720-R001 DATE ISSUED 02/05/20

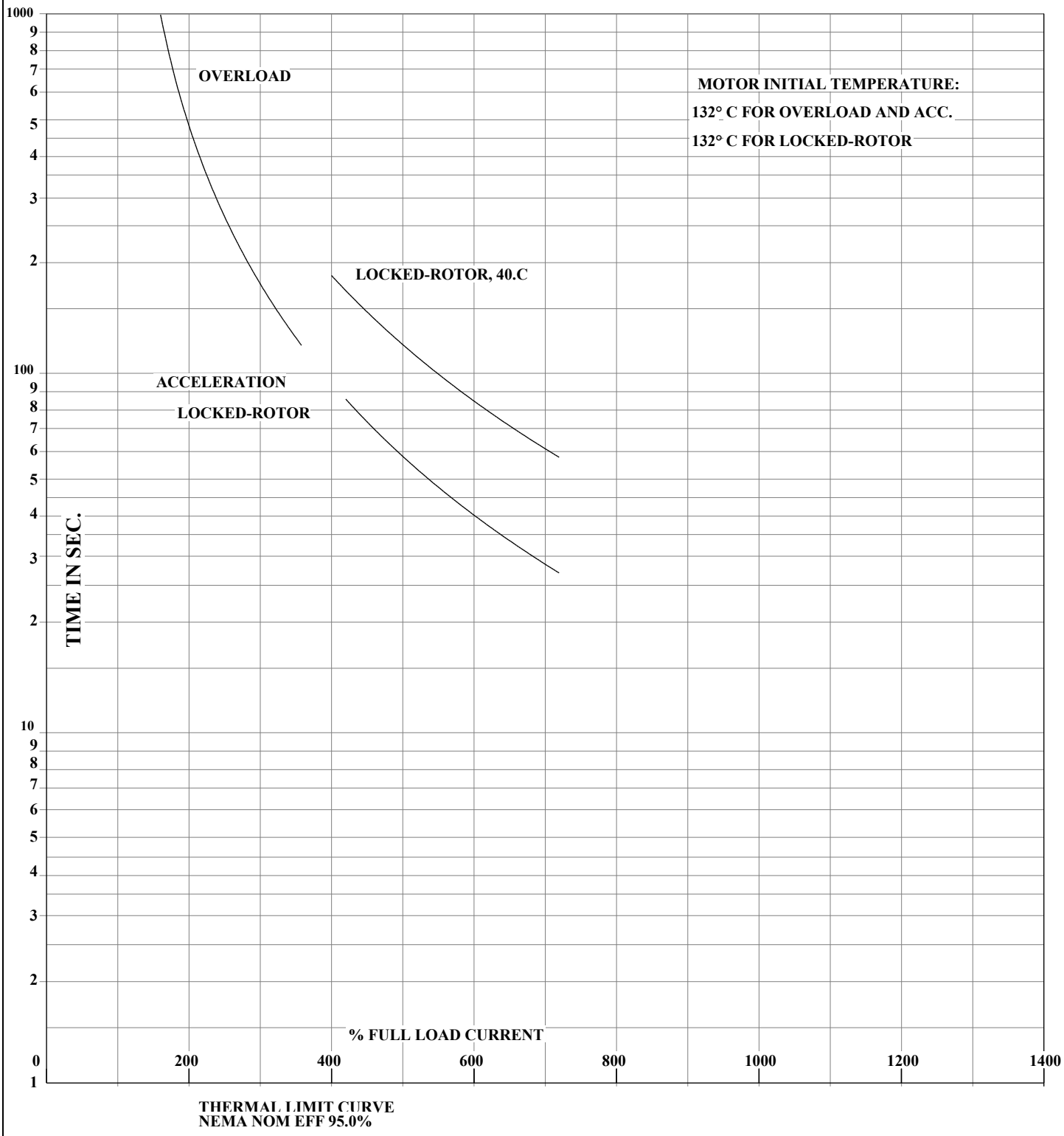
FRAME 444TS	RPM 3570	S.F. 1.15	ROTOR 418143-8-RE
HP 125	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 110	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0532
	AMB °C / INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



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

ABB	DRAWN BY: J. P. TSAO CHECKED BY: W. L. SMITH APPROVED BY: E. J. CHRISTIAN DATE: 02/05/20	AC MOTOR PERFORMANCE DATA	A44WG5720-R001 ISSUE DATE 02/05/20

FRAME 444TS	RPM 3570	S.F. 1.15	ROTOR 418143-8-RE
HP 125	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 110	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0532
	AMB °C / INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOM EFF 95.0%

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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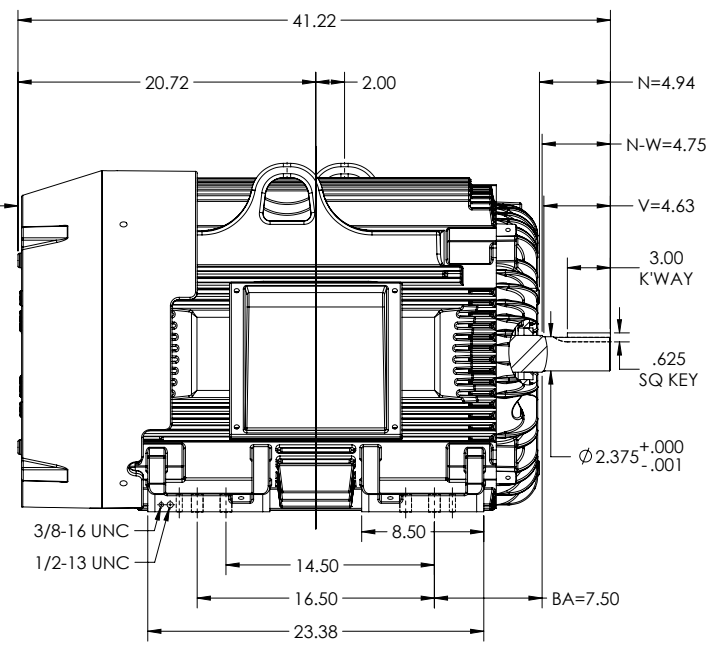
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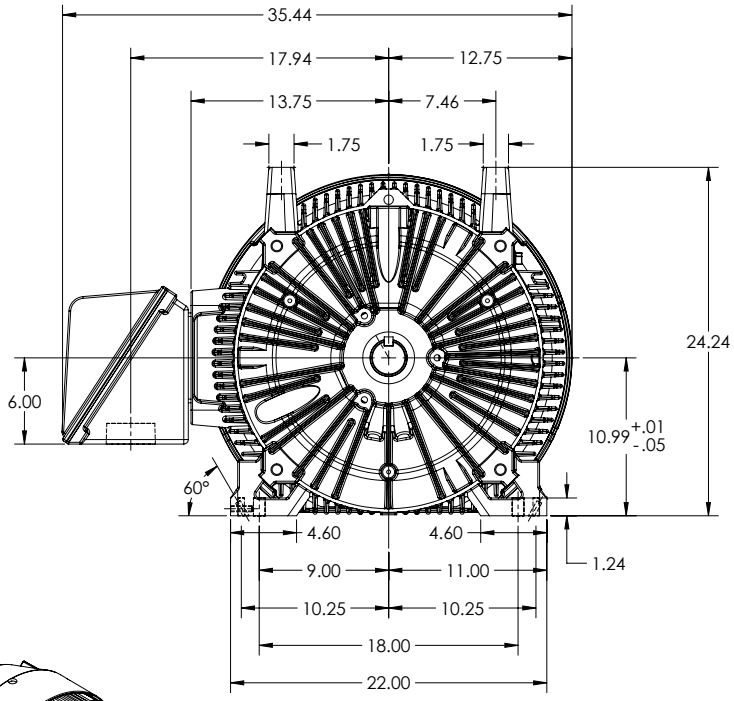
DUTY MASTER ALTERNATING CURRENT MOTORS

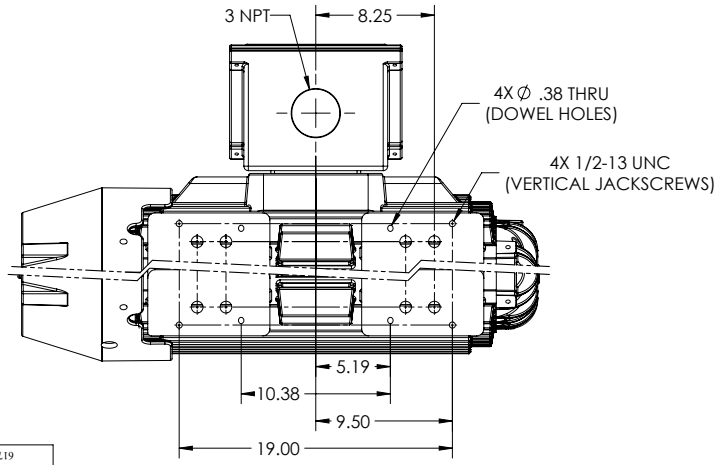
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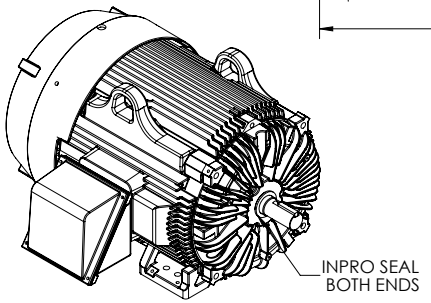
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 SIDE | G444TS/G445TS FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL









1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 2130 ±15% DEPENDING ON RATING.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
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.

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REV: -	VERSION: 00	REVISED: 01:22:33 12/17/2018	TDR: 000001093408
MODEL NO. 617434-659			REF: -
BY: USJEDIL	Material: _	C	G445/444TS TEFC F1 FOOT CI C/BOX/JACKSCREW/DOWEL PINS/INPROS

BALDOR

617434-659

617434-659

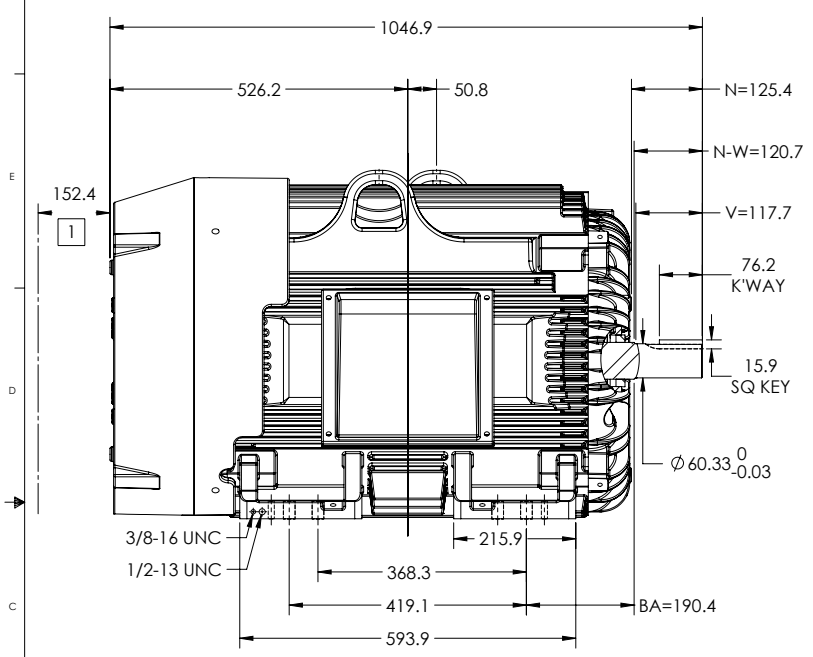
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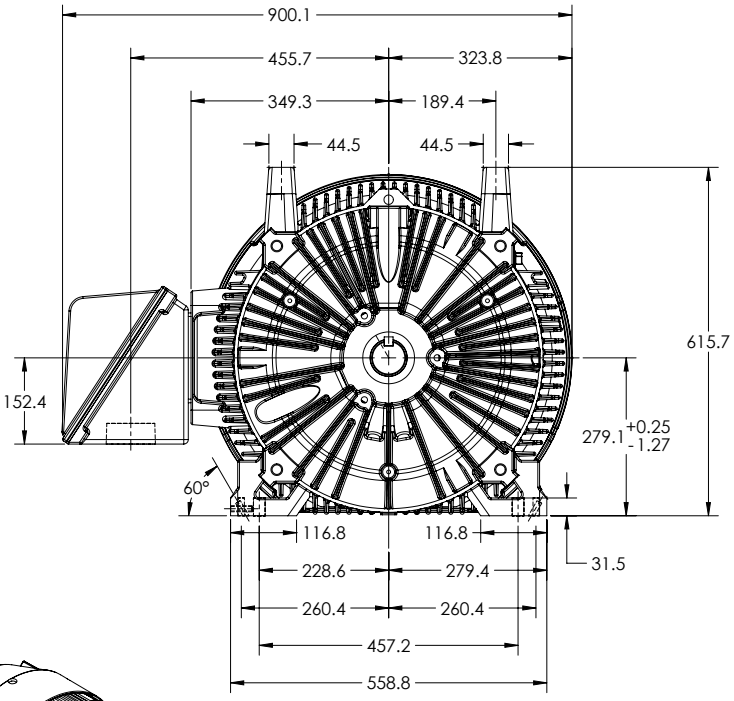
DUTY MASTER ALTERNATING CURRENT MOTORS

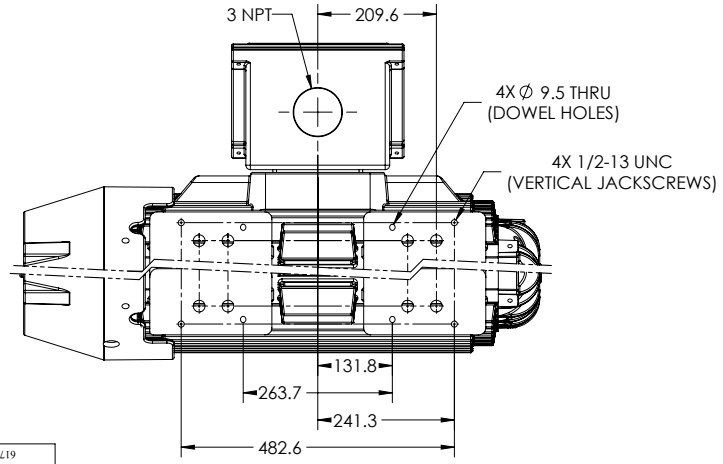
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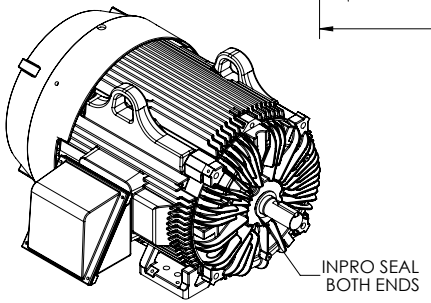
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 SIDE | G444TS/G445TS FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: 841-XL









1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KGS): 966 ±15% DEPENDING ON RATING.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
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.

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 01:22:33 12/17/2018	TDR: 000001093408
MODEL NO. 617434-659			REF: -
BY: USJEDIL	Material: _	C	G445/444TS TEFC F1 FOOT CI C/BOX/JACKSCREW/DOWEL PINS/INPROS

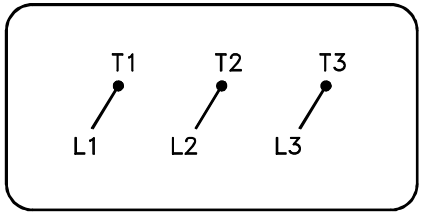
BALDOR

617434-659

617434-659

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