ABB BALDOR RELIANCE

Customer information packet

ECP84308T-4

40HP, 1190RPM, 3PH, 60HZ, 364T, A36062M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	364T
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	49.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3A
Heater Indicator	No Heater
High Voltage Full Load Amps	49.4 a
Insulation Class	F

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0043
Layout	617428-603
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	11-26-2018

Inverter Code	Inverter Ready
IP Rating	IP56
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
No Load Current	17.7 a
Number of Poles	6
Overall Length	33.49 IN
Power Factor	80
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	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4388																	
CAT #	ECP84308T-4				**FR**	364T		IP56									
SPEC	A36-6000-0043				**ENCL**	TEFC		**DES**	B								
HZ	60	**PH**	3	**CL**	F	**HP**	40	**SF**	1.15	**PF**	80	**%**	**CODE**	G			
VOLTS	460				**AMPS**	49.4											
RPM	1190		**MAX RPM**	1800	**SER**												
NEMA NOM. EFF	94.1	**%**	**RATING**	40C AMB-CONT													
GUAR MIN. EFF	93	**%**	**BRG DE**	6313	**BRG ODE**	6313											
CL I DIV 2 GRPS A,B,C,D			**CL I ZONE 2 GRPS**		**IIA,IIB,IIC**		**TEMP T**	3-200	**C**								
CT HZ	6-60		**VT HZ**	0-60													
CHP HZ	60-90		**INV TEMP CL**	200	**C**												
					MTR WT	927	**LBS**										

NP4333			
CAT #	ECP84308T-4	**ROTOR BARS**	55
SPEC	A36-6000-0043	**STATOR SLOTS**	72
SER		**MAX CORR KVAR**	12
GREASE	POLYREX EM		
ABMA DE BRG	65BC03J30X	**ODE**	65BC03J30X

SPACE HEATER LEADS H1-H2: **TIE LIKE NUMBERS** **TOGETHER**

MAX. SPACE HEATER TEMP.	**C**	**V**		**A**		**W**	

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364T	40	P	3/60	1190	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
491377	418141-74EE	---	---	.152

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	17.7	1200	5.41	0
1/4	10.0	21.6	1197	48.3	90.0
2/4	20.0	29.0	1194	69.0	93.6
3/4	30.0	38.6	1191	77.2	94.3
4/4	40.0	49.4	1188	80.5	94.2
5/4	50.0	61.0	1184	81.9	93.7

SPEED TORQUE

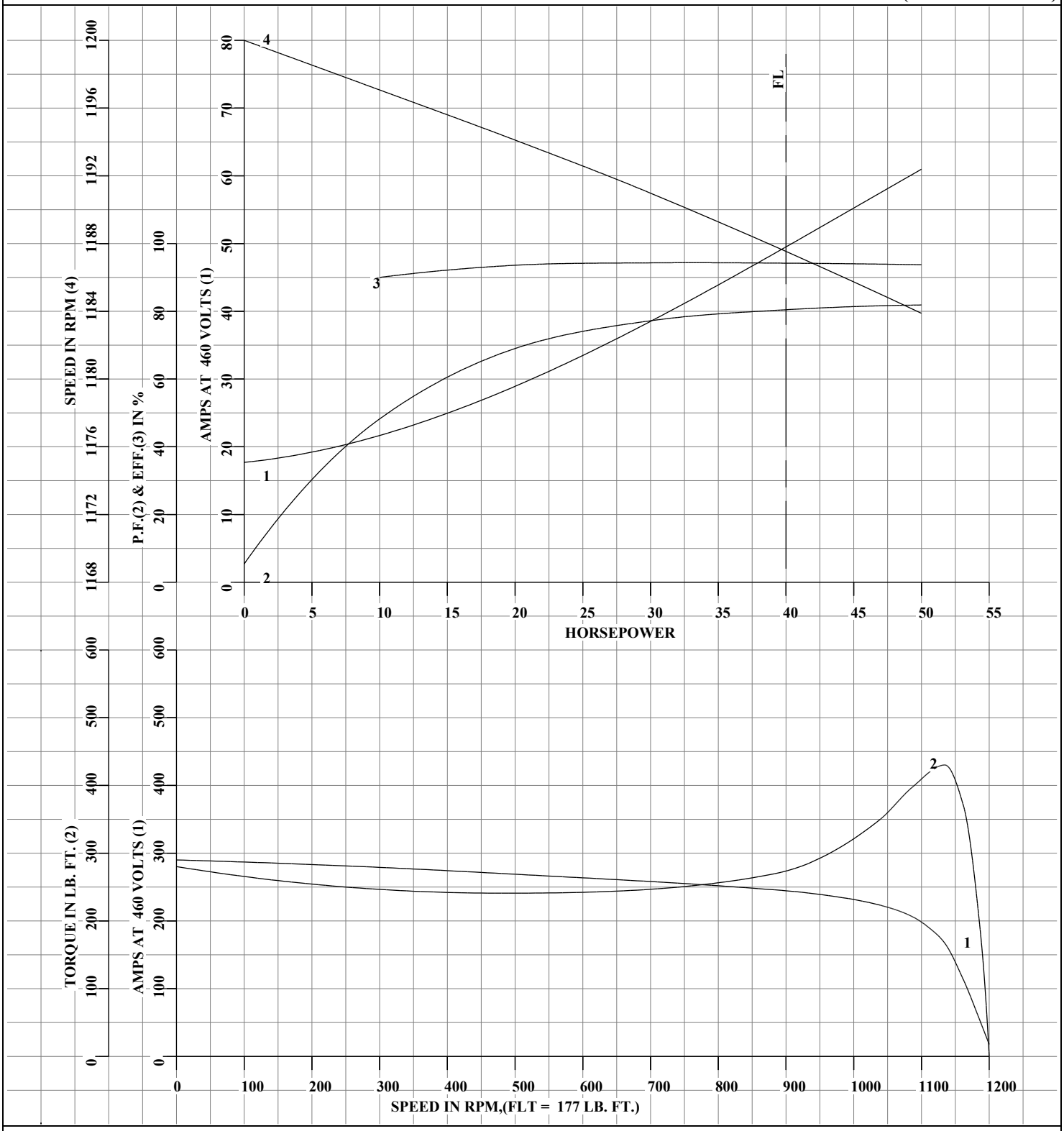
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	158	280	290
PULL UP	480	136	241	270
BREAKDOWN	1135	243	430	167
FULL LOAD	1188	100	177	49.4

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

TYPICAL DATA

ABB	DRAWN BY: G. R. WEBB CHECKED BY: W. L. SMITH APPROVED BY: W. L. SMITH DATE: 07/14/15	AC MOTOR PERFORMANCE DATA	A36WG0043-R005 DATE ISSUED 09/04/18

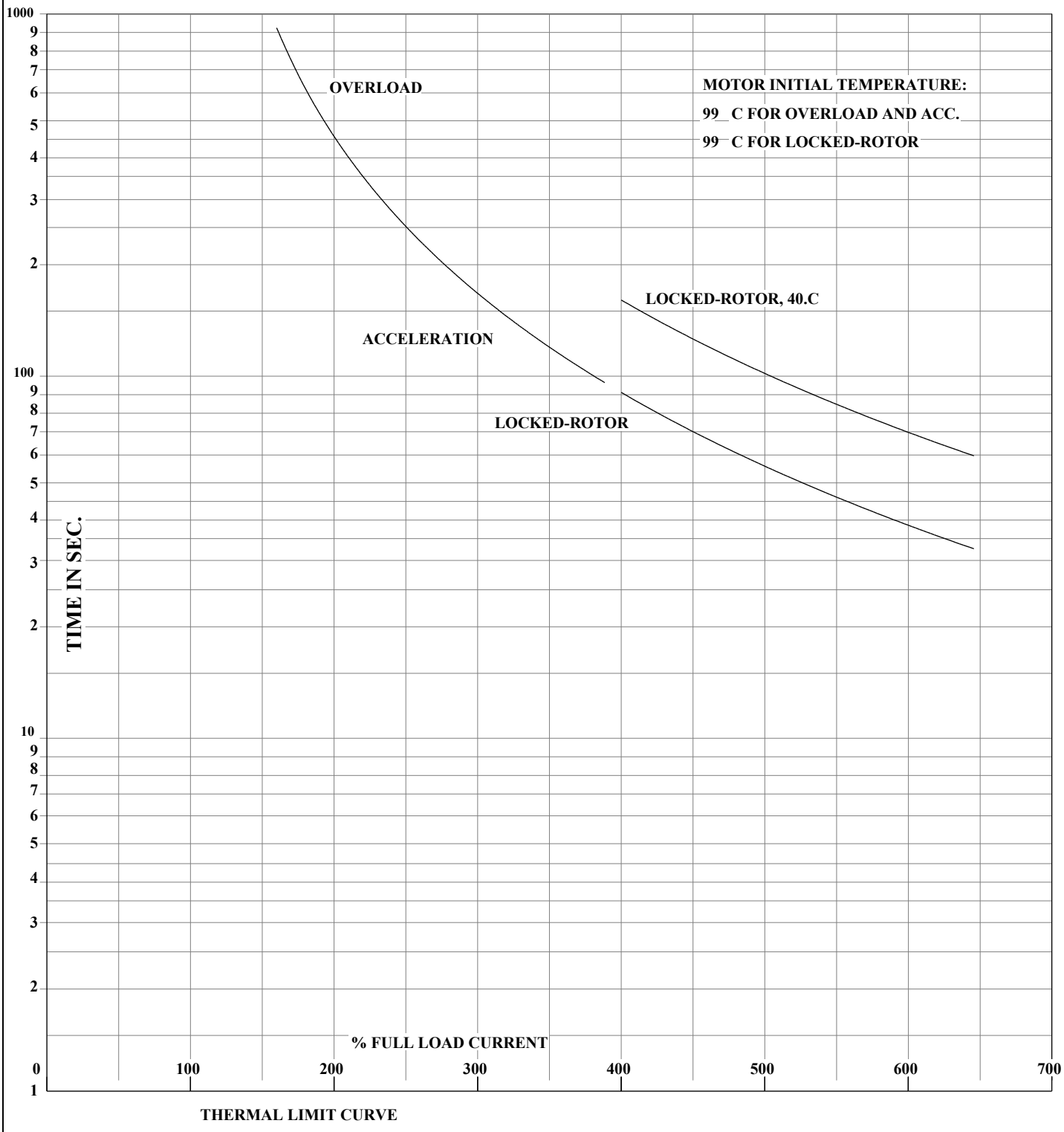
FRAME 364T	RPM 1190	S.F. 1.15	ROTOR 418141-74EE
HP 40	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 49.4	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .152
	AMB °C / INSUL 40/F	E/S 491377	OHMS (BETWEEN LINES)



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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FRAME 364T	RPM 1190	S.F. 1.15	ROTOR 418141-74EE
HP 40	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 49.4	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .152
	AMB °C / INSUL 40/F	E/S 491377	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

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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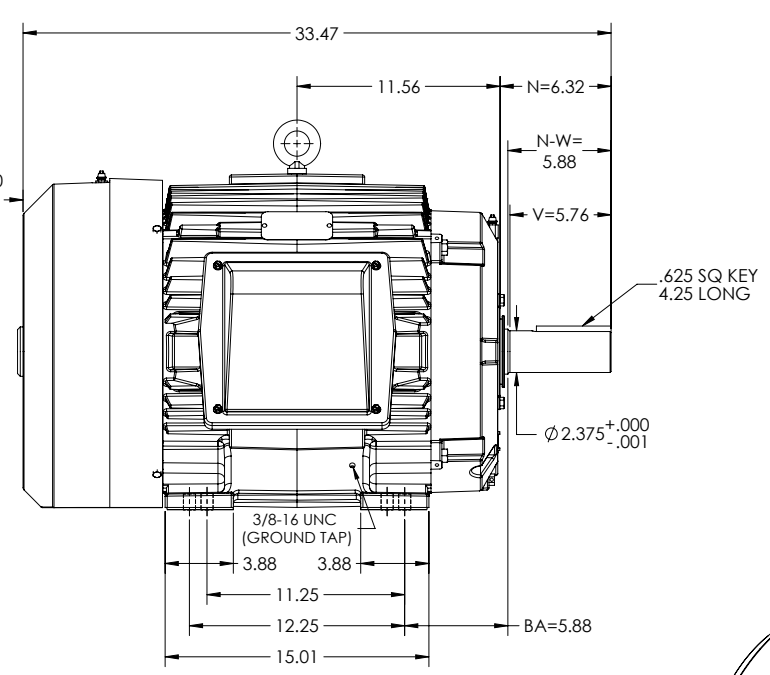
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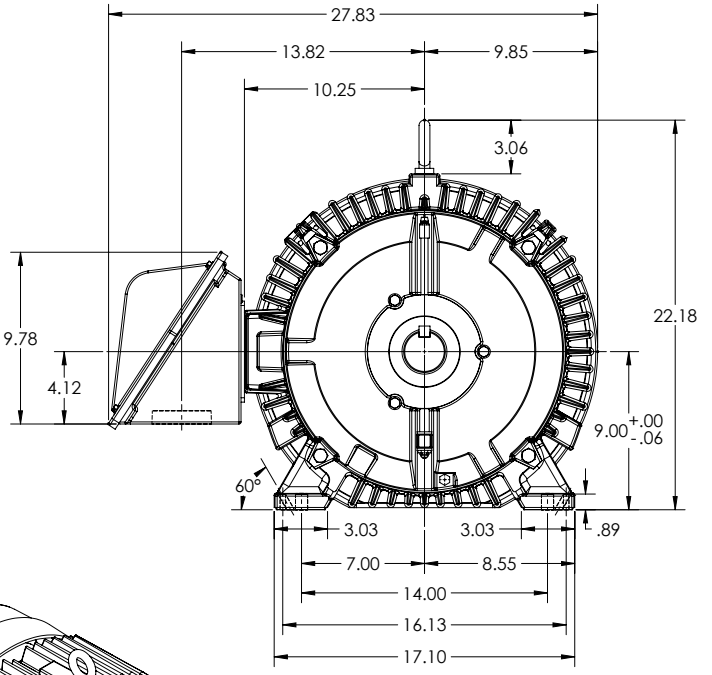
DUTY MASTER ALTERNATING CURRENT MOTORS

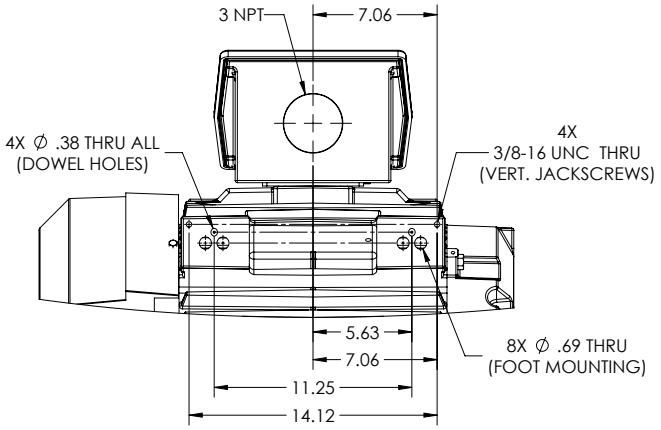
617428-603

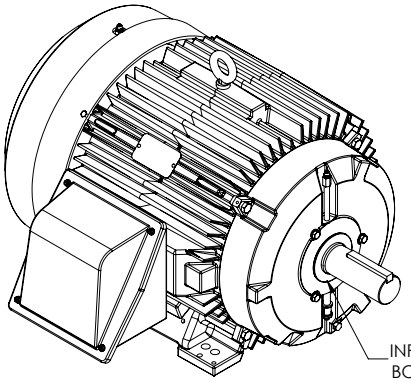
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 | E364T/ E365T FRAME MOUNTING HOLES | ENCLOSURE ENAHNCEMENT: 841-XL









1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.
WEIGHT (LBS) 846, WEIGHT MAY VARY BY 15% DEPENDING ON RATING
DIMENSIONS ARE IN INCHES.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN FOR BALL BEARING IS .0015 & ROLLER BEARING IS .002 T.I.R.

617428-603

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: C	VERSION: 03	REVISED: 02-09-45 10/03/2022	TDR: 000001196512
MODEL NO. 617428-603			
BY: ENFRAJ0			C

BALDOR

E364/365T TEFC F1 FOOT/CI BOX/GRND TAP/841-XL

617428-603

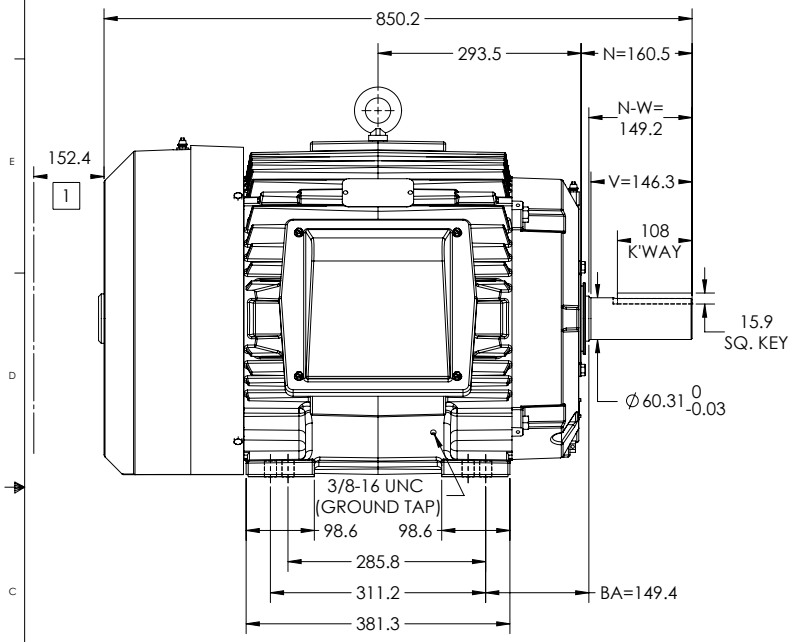
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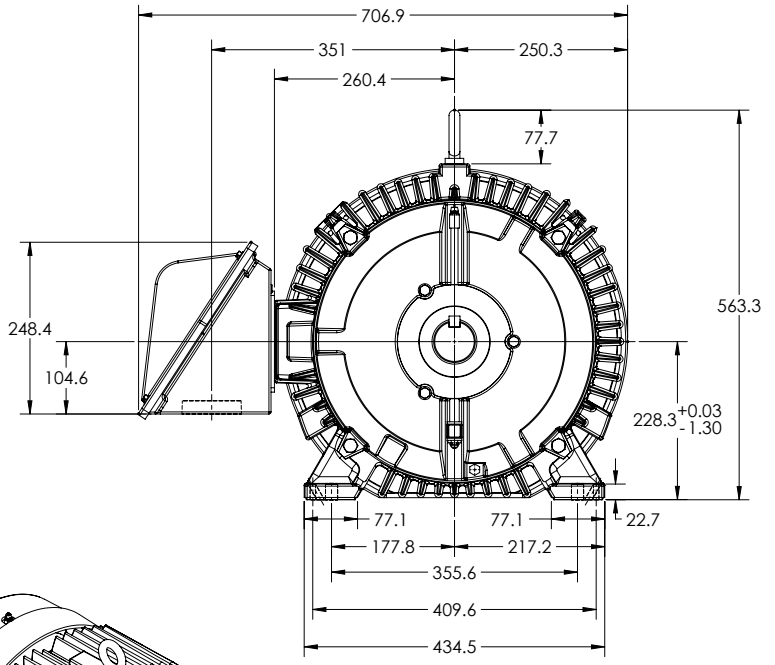
DUTY MASTER ALTERNATING CURRENT MOTORS

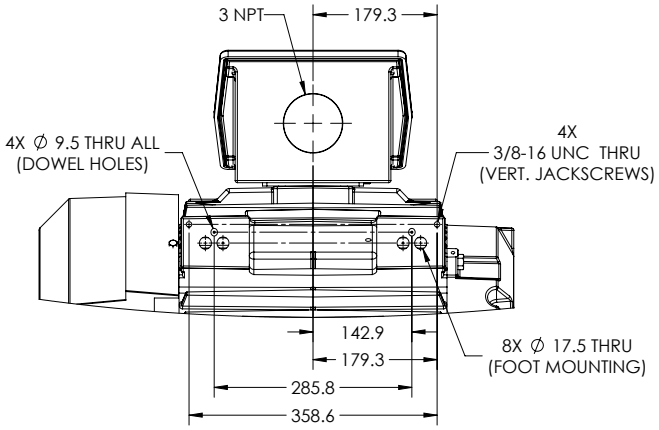
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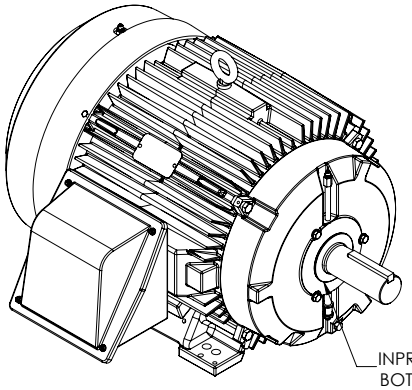
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 | E364T/ E365T FRAME MOUNTING HOLES | ENCLOSURE ENAHNCEMENT: 841-XL









1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.
WEIGHT (KG) 383.7, WEIGHT MAY VARY BY 15% DEPENDING ON RATING
DIMENSIONS ARE IN MILLIMETERS.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN FOR BALL BEARING IS .04 & ROLLER BEARING IS .05T.I.R.

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: C	VERSION: 03	REVISED: 02-09-45 10/03/2022	TDR: 000001196512
MODEL NO. 617428-603			
BY: ENFRAJ0		C	

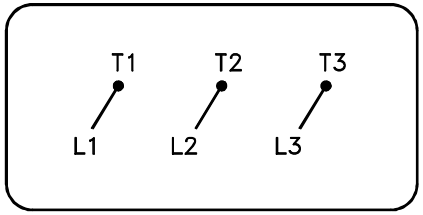
BALDOR

E364/365T TEFC F1 FOOT/CI BOX/GRND TAP/841-XL

617428-603

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