ABB BALDOR RELIANCE

Customer information packet

ECP84402T-4

100HP, 3565RPM, 3PH, 60HZ, 405TS, A40066M, TEF
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	405TS
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	Polyrex EM (-20F +300F)
Constant Torque Speed Range	10-60
Current @ Voltage	110.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
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

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG1242
Layout	617429-791
Eff. date	06-19-2025
CD Diagram	416820-036
Poles	02
Leads	3#2
Proprietary	False
Created date	05-14-2025

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	None
Motor Type	A40066M
Mounting Arrangement	F1
No Load Current	26.3 a
Number of Poles	2
Overall Length	35.19 IN
Power Factor	90
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3565 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566											
CAT NO	ECP84402T-4	**SPEC NO.**	A40-0005-1242								
HP	100	**AMPS**	110	**VOLTS**	460	**DESIGN**	B				
FRAME SIZE	405TS	**RPM**	3565	**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**	90	**NEMA-NOM-EFFICIENCY**	94.1						
3/4 LOAD EFF.	94.7	**IP**	56	**MAX CORR KVAR**	12	**GUARANTEED EFFICIENCY**	93				
TEMP CODE	T3	**TEMP =**	200								
CHP HZ	60-70	**CT HZ**	10-60	**VT HZ**	0-60						
INVERTER-TEMP-CODE	T3										
SER.NO.		**MOTOR WEIGHT**									

000613007EX					
CAT NO	ECP84402T-4	**SPEC NO.**	A40-0005-1242		
NO. ROTOR BARS	38	**GREASE TYPE**	POLYREX EM		
NO. SLOTS	48	**NL AMPS AT RATED VOLTAGE**		26.3	
5 YEAR WARRANTY		**WINDING RES @25 C**	.0511	**OHMS**	
MFG. DATE		**SER.NO**			

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405TS	100	P	3/60	3565	460

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)
---	418142005XE	---	---	.0511

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	26.3	3600	8.33	0
1/4	25.0	37.4	3591	69.0	90.8
2/4	50.0	58.1	3583	85.7	94.0
3/4	75.0	83.0	3574	89.3	94.7
4/4	99.9	110	3565	90.1	94.6
5/4	125	137	3555	90.6	94.2

SPEED TORQUE

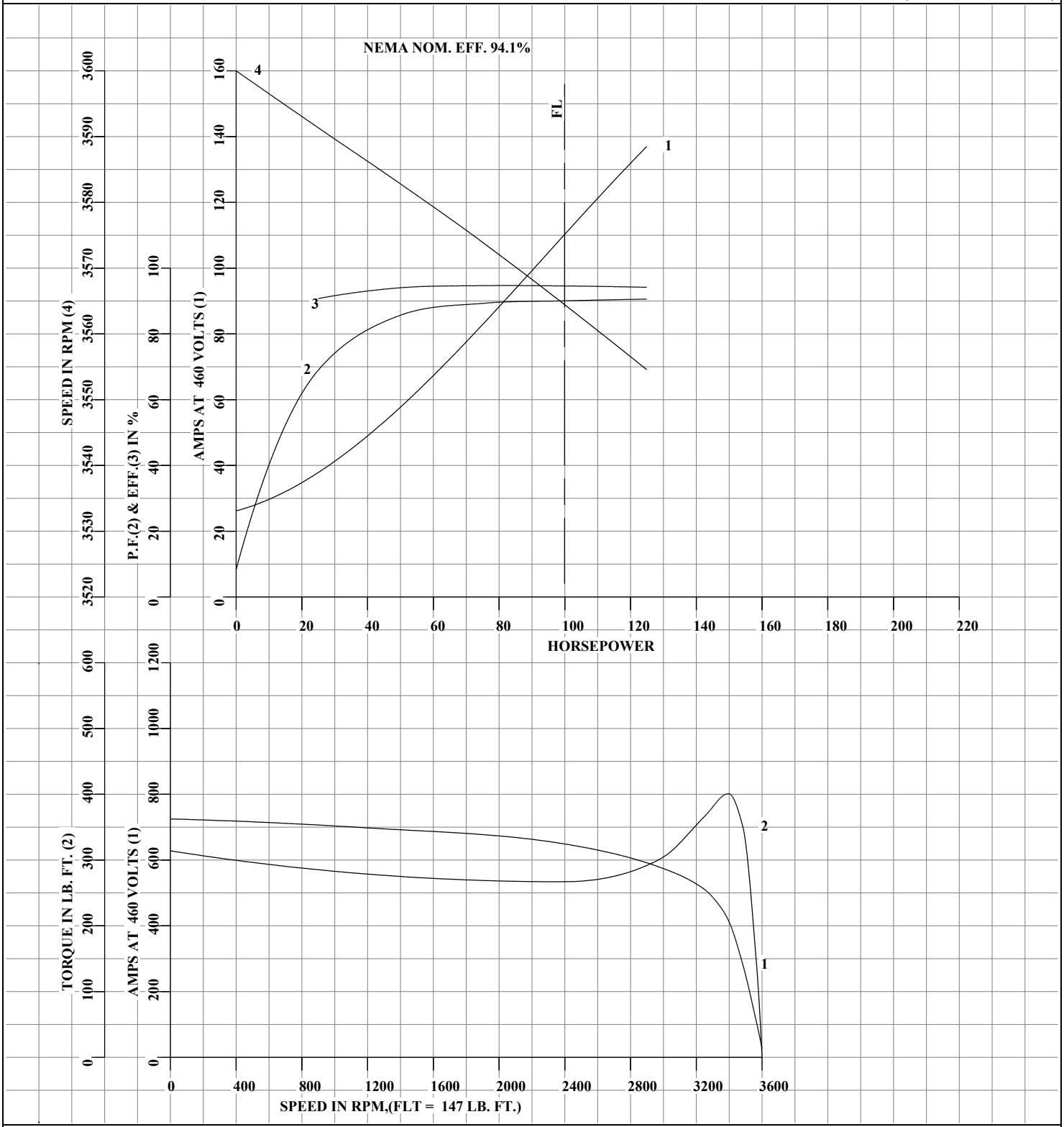
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	213	314	725
PULL UP	2385	181	267	650
BREAKDOWN	3396	272	401	416
FULL LOAD	3565	100	147	110

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

TYPICAL DATA
NEMA NOM. EFF. 94.1%

ABB	DRAWN BY: C.E. JAMISON CHECKED BY: W. L. SMITH APPROVED BY: E.J.CHRISTIAN DATE: 07/24/18	AC MOTOR PERFORMANCE DATA	A40WG1242-R007 DATE ISSUED 07/29/26

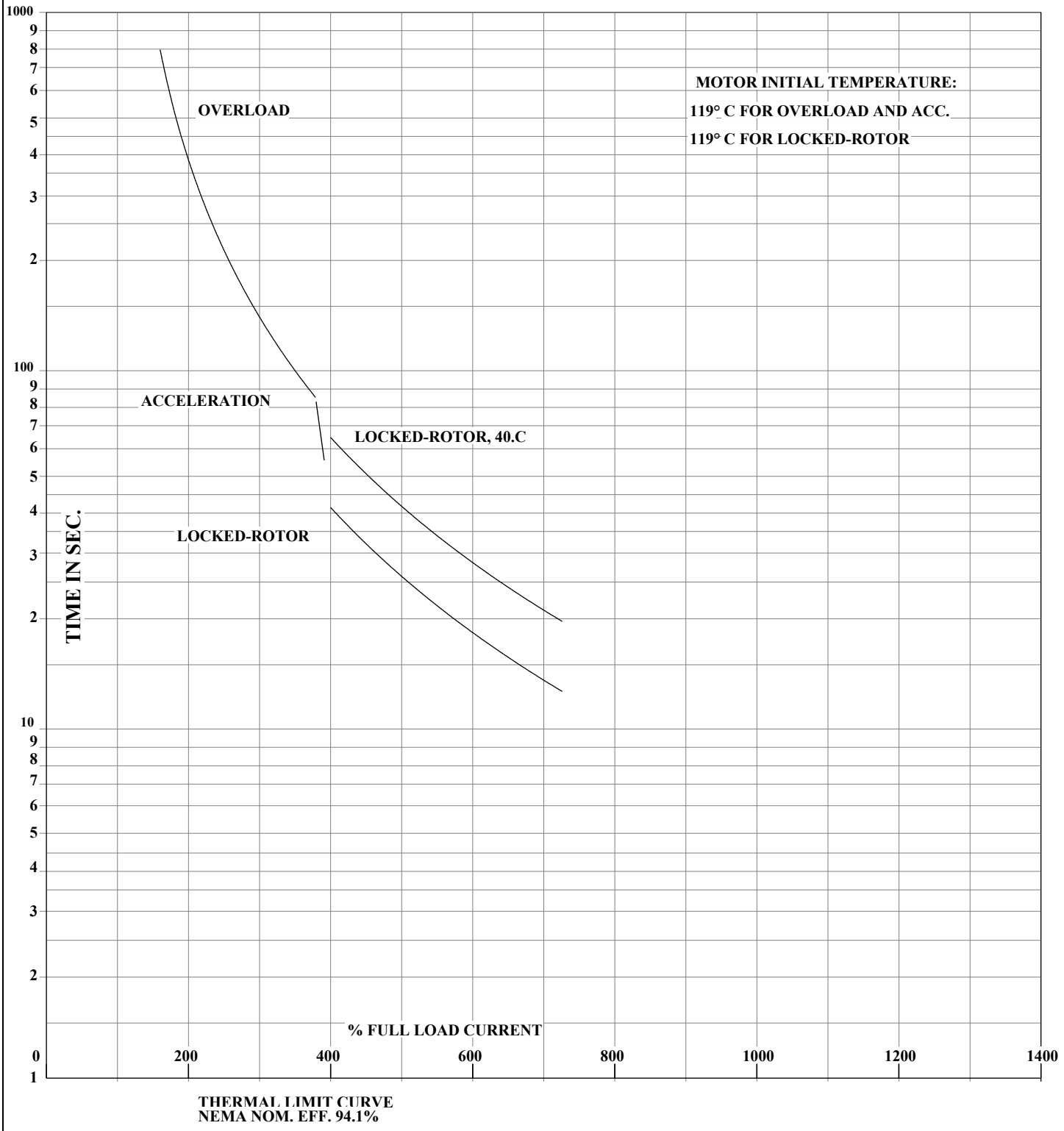
FRAME 405TS	RPM 3565	S.F. 1.15	ROTOR 418142005XE
HP 100	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 110	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0511
	AMB °C / INSUL 40/F	E/S ---	OHMS (BETWEEN LINES)



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

ABB	DRAWN BY: C.E. JAMISON CHECKED BY: W. L. SMITH APPROVED BY: E.J.CHRISTIAN DATE: 07/24/18	AC MOTOR PERFORMANCE DATA	A40WG1242-R007 ISSUE DATE 07/29/26

FRAME 405TS	RPM 3565	S.F. 1.15	ROTOR 418142005XE
HP 100	VOLTS 460	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 .0511
	AMB °C / INSUL 40/F	E/S ---	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOM. EFF. 94.1%

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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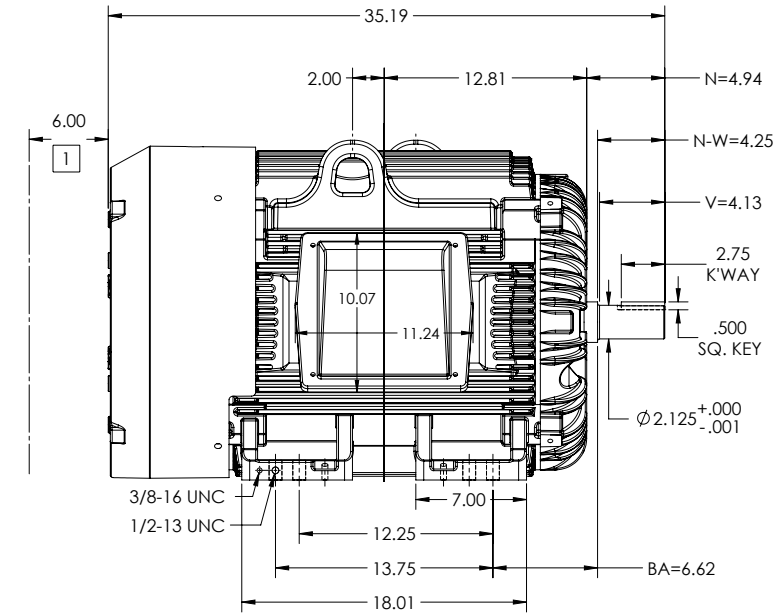
DUTY MASTER ALTERNATING CURRENT MOTORS

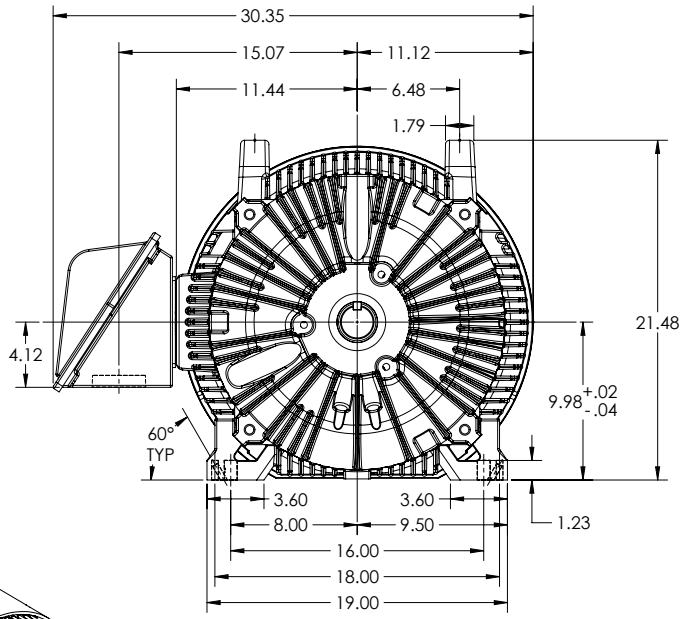
617429-791

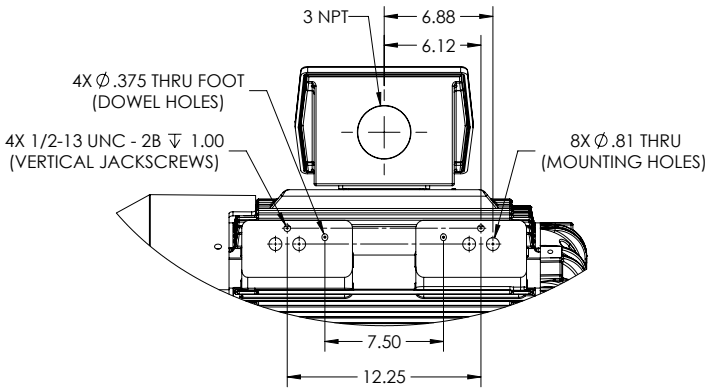
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

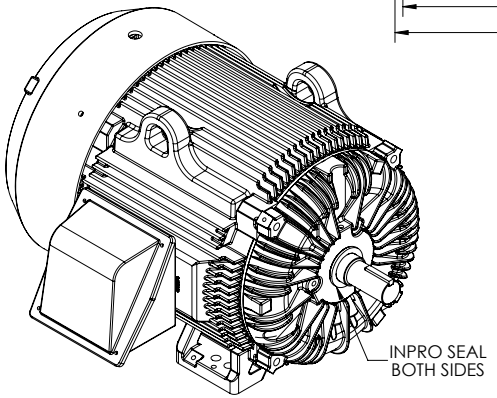
MOUNTING: FOOT, F-1 SIDE | G405TS/G404TS FRAME MOUNTING HOLES | 841-XL ENCLOSURE ENHANCEMENT

DOWEL HOLES & JACKSCREWS









DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 1370 MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

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.

SHEET NUMBER 1 OF 1

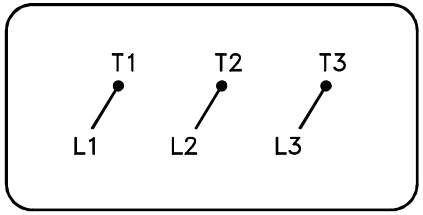
REV. DESC: DS QUALITY			
REV: A	VERSION: 01	REVISED: 01:21:23 12/04/2018	TDR: 000001092776
MODEL NO. 617429-791			REF:
BY: USJEDIL	Material:	C	G405/404TS TEFC F1 FOOT CI BOX/INPROS/JACKSCREWS/DOWEL HOLES

BALDOR

617429-791

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