



Customer information packet

ECP84404T-5

75HP, 1185RPM, 3PH, 60HZ, 405T, A40072M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	405T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	15-60
Current @ Voltage	67.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	67.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG1268
Layout	617429-818
Eff. date	06-19-2025
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	05-20-2025

Lifting Lugs

Standard Lifting Lugs

Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	None
Motor Type	A40072M
Mounting Arrangement	F1
No Load Current	18.2 a
Number of Poles	6
Overall Length	38.19 IN
Power Factor	87
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566															
CAT NO	ECP84404T-5			SPEC NO.		A40-0001-1268									
HP	75	AMPS		67.7		VOLTS		575		DESIGN		B			
FRAME SIZE	405T	RPM		1185	HZ		60	AMB		40	SF	1.15			
D.E. BRG.DATA	6316		O.D.E. BRG.DATA			6316		PH		3	DUTY		CONT	INSUL.CLASS	F
D.E. BRG.	80BC03J30X			TYPE		ENCL	TEFC	CODE		G					
O.D.E. BRG.	80BC03J30X			POWER FACTOR			87		NEMA-NOM-EFFICIENCY				94.5		
3/4 LOAD EFF.	94.9	IP	56	MAX CORR KVAR				12		GUARANTEED EFFICIENCY				93.6	
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											

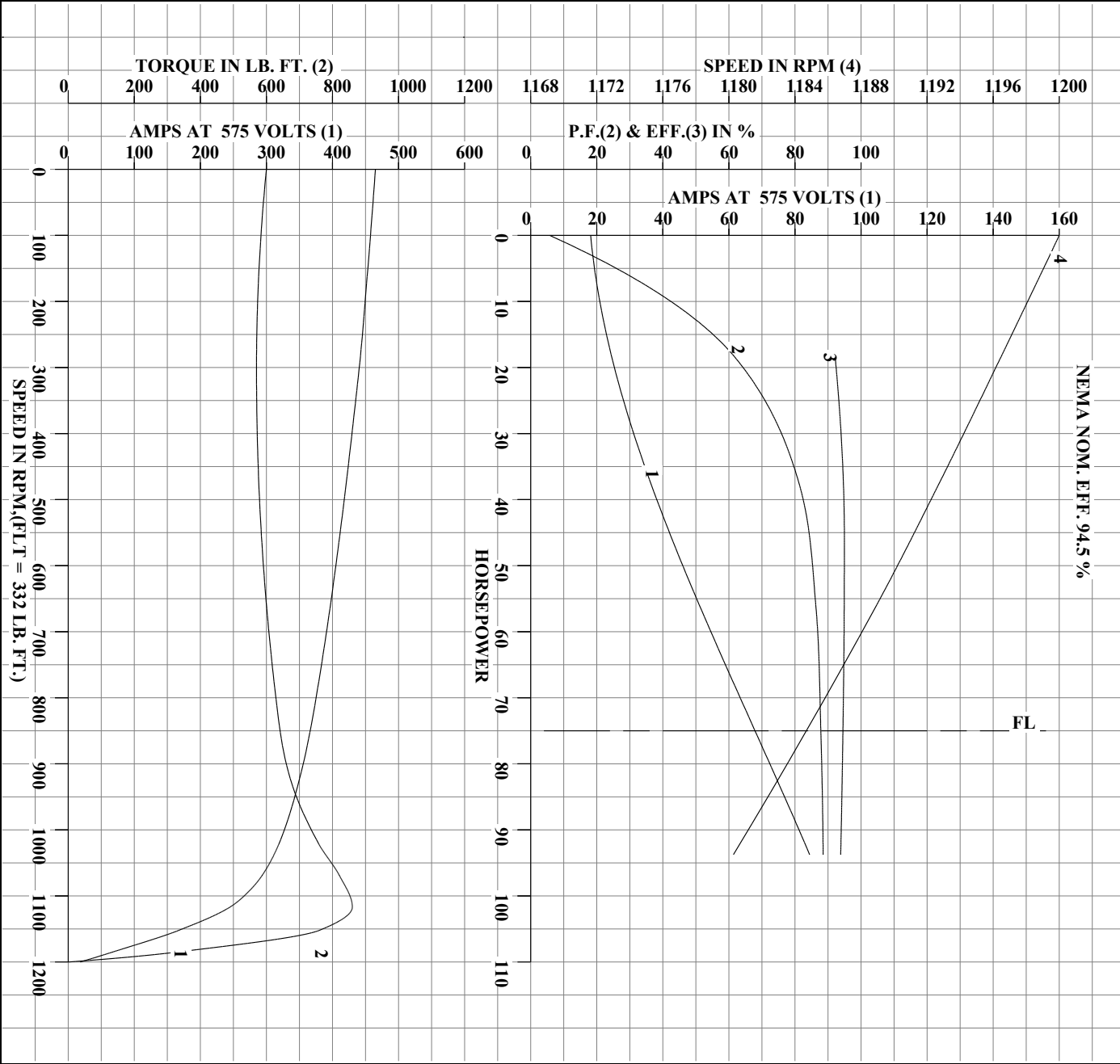
000613007EX				
CAT NO	ECP84404T-5	SPEC NO.	A40-0001-1268	
NO. ROTOR BARS	71	GREASE TYPE	POLYREX EM	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		18.2
5 YEAR WARRANTY		WINDING RES @25 C	.139	OHMS
MFG. DATE		SER.NO		
	SFA 77.6			

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	40ST	75	P	3/60	1185	575
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
67.7	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418142073DE	---	---	.139		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	18.2	1200	5.77	0	
1/4	18.8	24.5	1196	62.4	92.2	
2/4	37.5	36.6	1193	81.2	94.7	
3/4	56.2	51.4	1189	86.3	94.9	
4/4	75.0	67.7	1185	87.8	94.5	
5/4	93.8	84.5	1180	88.5	93.8	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	180	600	465	
PULL UP		305	171	570	440	
BREAKDOWN		1117	259	860	245	
FULL LOAD		1185	100	332	67.7	
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. 94.5 %						
		DRAWN BY: W.L. SMITH CHECKED BY: C.E. JAMISON APPROVED BY: W.L. SMITH DATE: 05/20/25		AC MOTOR PERFORMANCE DATA	A40WG1268-R001 DATE ISSUED 05/20/25	

USWESM11

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REL.S.O.	405T	RPM	1185	S.F.	1.15	ROTOR	418142073DE
FRAME	405T	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	75	AMPS	67.7	CODE LETTER	G	TEST DATE	--
TYPE	P	DUTY CONT		ENCLOSURE	TEFC	STATOR RES. @ 25°C	.139
PHASE / HERTZ	3/60	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.



DRAWN BY: W.L.SMITH
CHECKED BY: C.E.JAMISON
APPROVED BY: W.L.SMITH
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AC MOTOR
PERFORMANCE
DATA

A40W G1268-R001

ISSUE DATE 05/20/25

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DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED

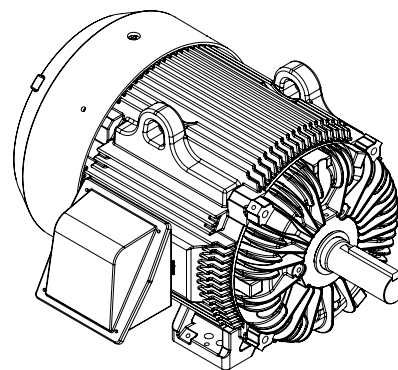
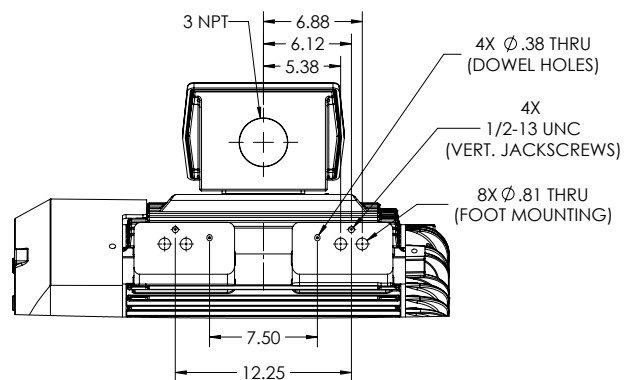
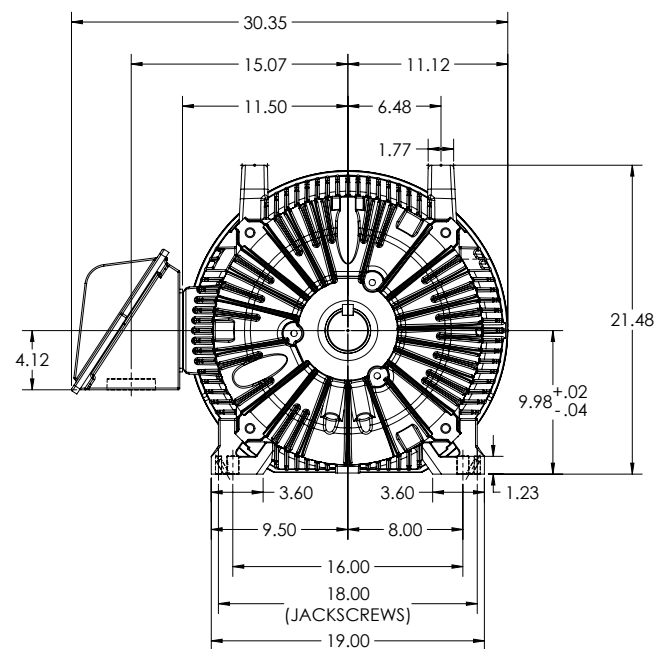
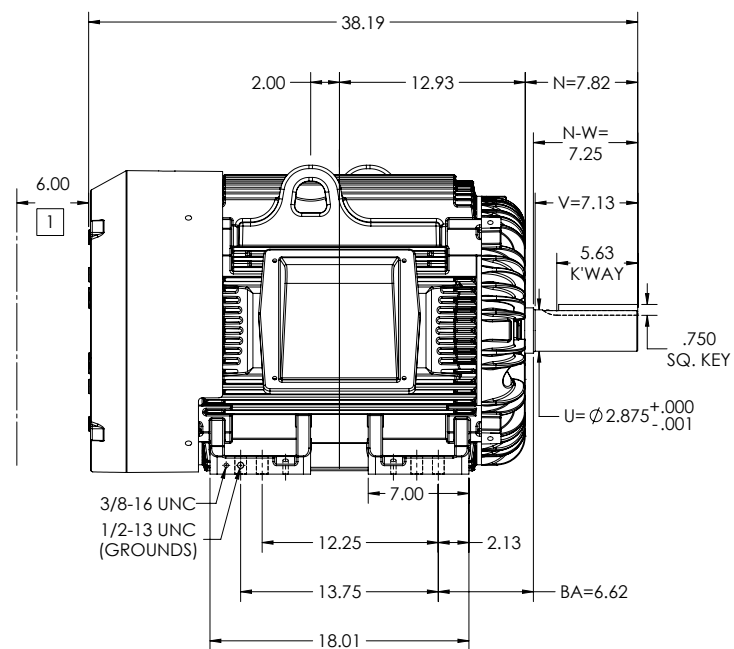
SQUIRREL-CAGE INDUCTION

COOLING: FAN COOLED

MOUNTING: FOOT, F-1

G405T/G404T FRAME MOUNTING HOLES

ENCLOSURE ENHANCEMENT: 841-XL



DIMENSIONS ARE IN INCHES.
MOTOR WEIGHT(LBS)= 1350 ± 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER
1 OF 2

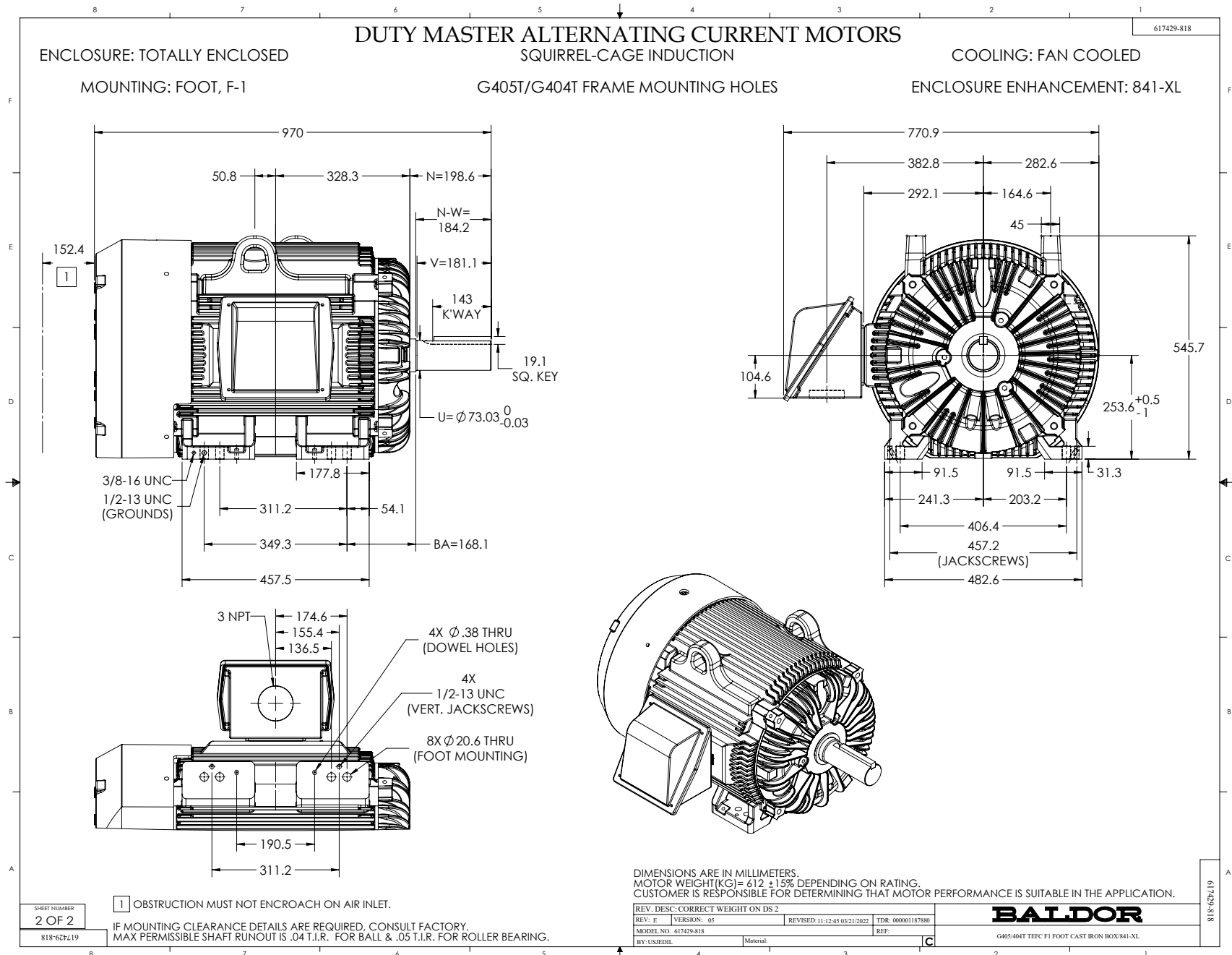
1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

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

REV. DESC: CORRECT WEIGHT ON DS 2			
REV: E	VERSION: 05	REVISED: 11:12:45 03/21/2022	TDR: 000001187880
MODEL NO. 617429-818			REF:
BY: USJEDIL		Material:	

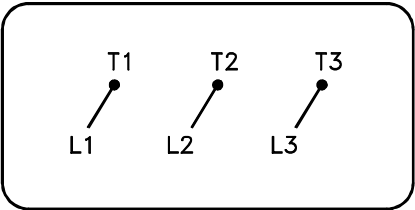
BALDOR

G405/404T TEFC F1 FOOT CAST IRON BOX/841-XL



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		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1