ABB BALDOR RELIANCE

Customer information packet

CSPM4402TS-4

100HP, 3575RPM, 3PH, 60HZ, 405TSC, A4072M, TEF
Class - CLI GP A,B,C,D; CLII GP F,G
Division - Division II

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11/18/2026 9:51:18 AM

Specifications

Enclosure	TEFC
Frame	405TSC
Frame Material	Cast Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D; CLII GP F,G
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	CCSAUSEEV CURUSEEV NEMA_PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	114.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	114.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Max Speed	4200 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG5798
Layout	617437-732
Eff. date	09-08-2026
CD Diagram	416820-036
Poles	02
Leads	3#4
Proprietary	False
Created date	12-10-2024

Motor Standards	NEMA
Motor Type	A4072M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.20 IN
Power Factor	87
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3575 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL POLYREX EM

NP4562L																				
CAT NO	CSPM4402TS-4		**SPEC NO.**	A40-5002-5798			**I.P.**	55												
HP	100	**AMPS**	116		**VOLTS**	460		**DESIGN**	A											
FRAME SIZE	405TSC	**RPM**	3575		**MAX RPM**	4200	**HZ**	60	**AMB**	40	**C**									
D.E. BRG.	80BC03J30X		**PH.3**	3	**DUTY**	CONT			**INSUL.CLASS**	F										
O.D.E. BRG.	80BC03J30X		**TYPE P**		**ENCL**	TEFC	**SF**	1.15	**CODE**	L										
POWER FACTOR	84		**MAX CORR KVAR**	22.3				**NEMA NOM EFFICIENCY**	95			**MOTOR WEIGHT**		**LBS**						
CL.I,DIV 2,GRP:	**A,B,C,D**	**T.CODE**	T3			**CL.1,ZONE 2,GRP:**			**IIA,IIB,IIC**	**T=**	200	**C**	**INVERTER T.CODE**	T3						
CL.II,DIV 2,GRP:	**F,G**	**T.CODE**	T3C			**CL II ZONE 22 GRPS IIIB**			**T=**	160	**C**		**INVERTER T.CODE**	T3						
ID LOGO	**INV TYPE:**	**VPWM**	**CT**	15	**TO**	60	**VT**	3	**TO**	60	**CHP**	60	**TO**	70						
ID LOGO	**1.0 SF VPWM**	**WK2**	16		**LBFT2**		**SL HZ**	0.43	**MAG CUR**	43.6										
SER.NO.			**MEETS INTENT OF IEEE-45**						**FOR WEATHER PROTECTION**											

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405	100	P	3/60	3575	460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
116	CONT	40/F	1.15	A	L	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
---	A40RC2072A00	---	---	.0362

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	43.6	3600	5.82	0
1/4	25.0	52.9	3594	49.3	89.7
2/4	50.0	70.4	3587	71.0	93.7
3/4	75.0	92.1	3581	80.4	94.8
4/4	100	116	3574	84.6	95.0
5/4	125	141	3568	87.3	94.9

SPEED TORQUE

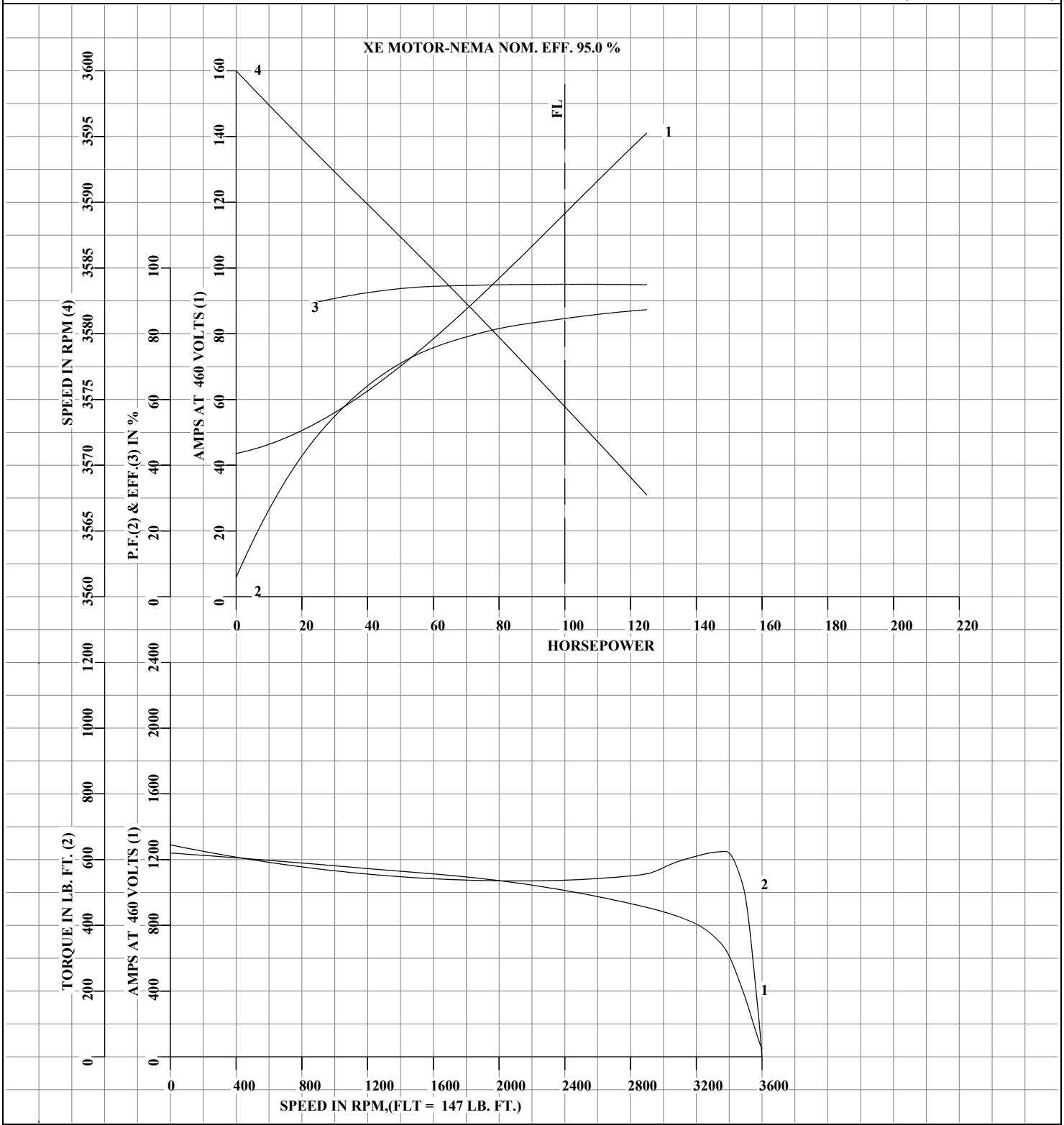
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	439	645	1240
PULL UP	2130	364	535	1055
BREAKDOWN	3380	425	625	650
FULL LOAD	3574	100	147	116

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

TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 95.0 %

ABB	DRAWN BY: W. L. SMITH CHECKED BY: G. R. WEBB APPROVED BY: E.J.CHRISTIAN DATE: 01/23/02	AC MOTOR PERFORMANCE DATA	A40WG5798-R002 DATE ISSUED 01/30/26

FRAME 405	RPM 3575	S.F. 1.15	ROTOR A40RC2072A00
HP 100	VOLTS 460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
TYPE P	AMPS 116	CODE LETTER L	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0362
	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.

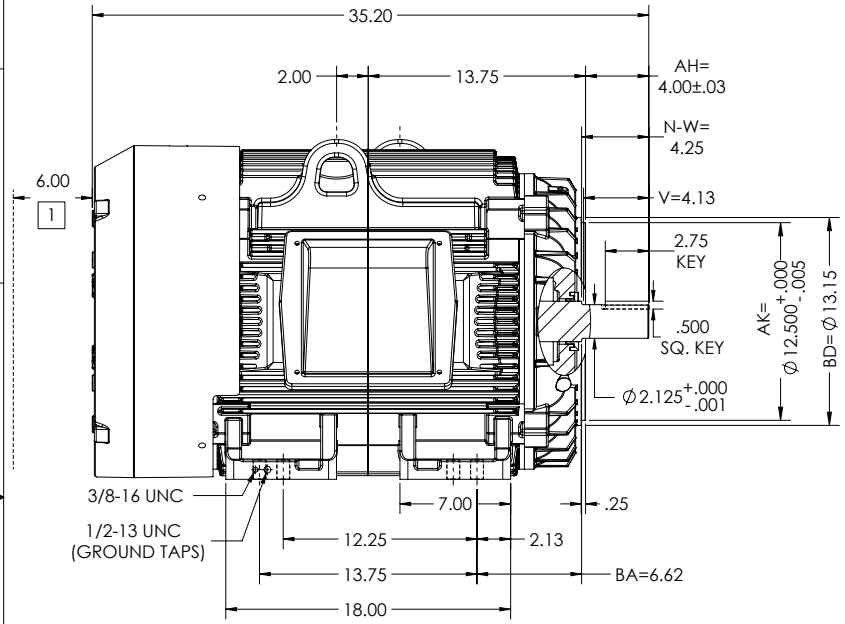
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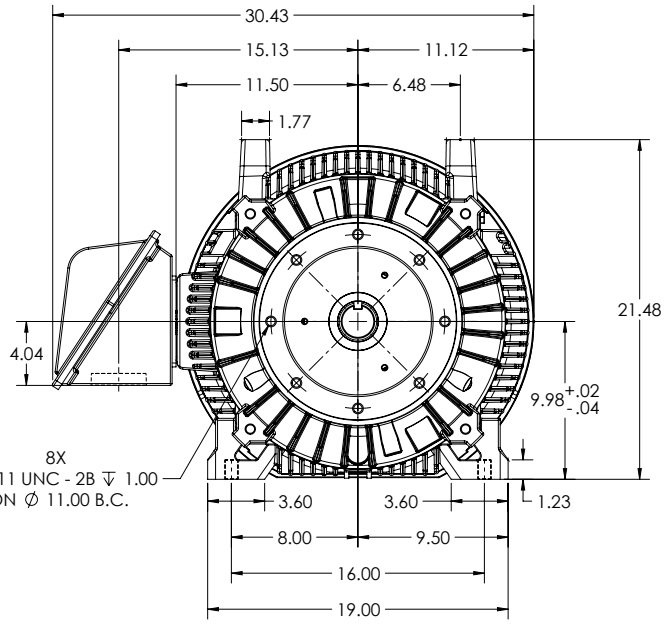
DUTY MASTER ALTERNATING CURRENT MOTORS

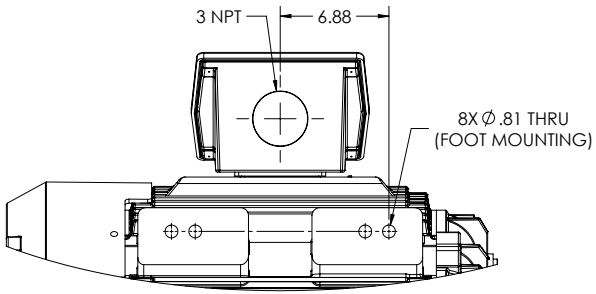
617437-732

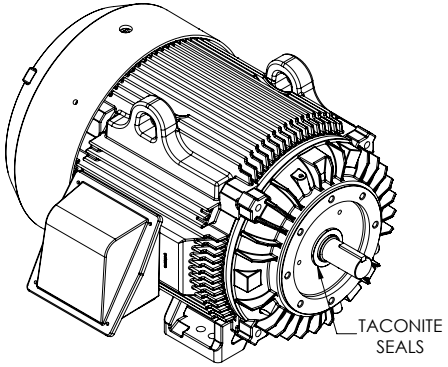
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 | G405TSC/G404TSC FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: SEVERE DUTY









1 OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET.

MAX FACE RUNOUT AND FIT ECCENTRICITY = 0.007 T.I.R.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

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

SHEET NUMBER 1 OF 2

617437-732

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 11:18:22 12/12/2024	TDR: 000001239215
MODEL NO. 617437-732			REF:
BY: USJEDIL	Material:	C	

BALDOR

G405/404TSC TEFC FOOT F1/C1 BOX/TACONITE SEALS

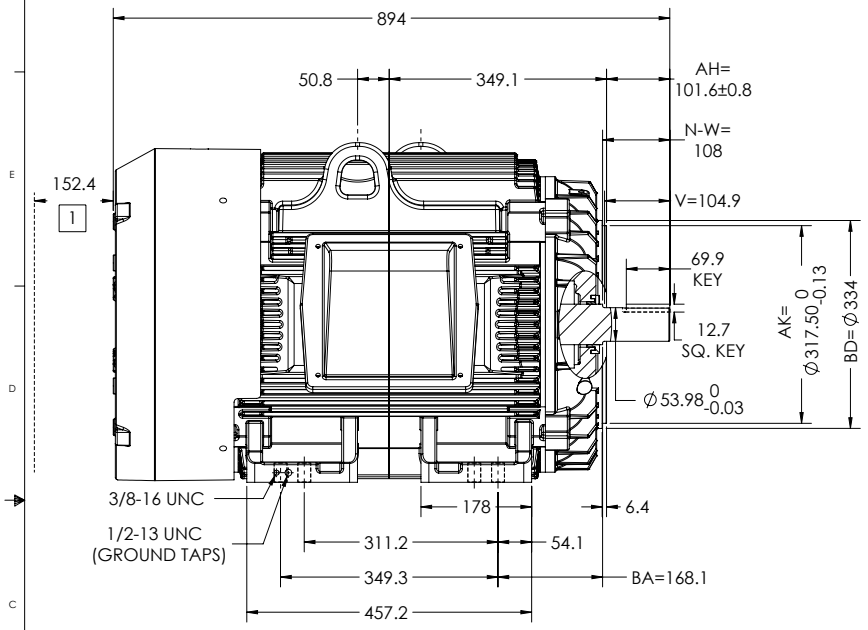
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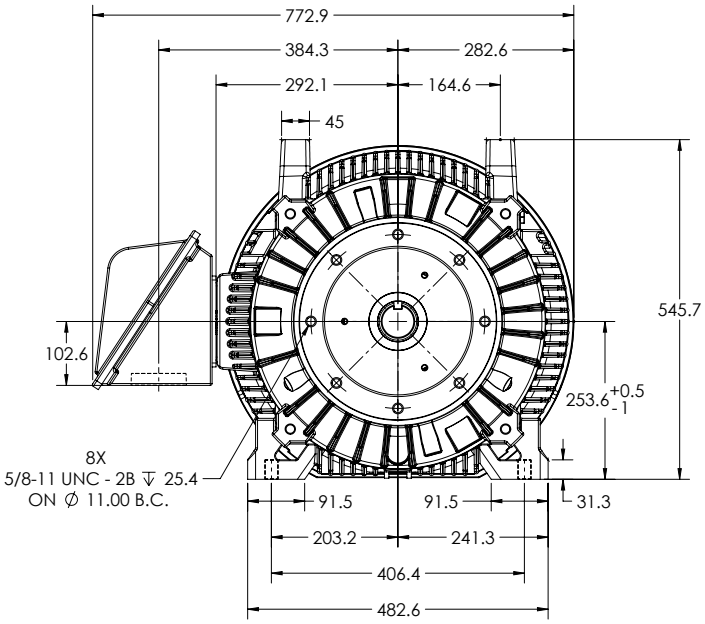
DUTY MASTER ALTERNATING CURRENT MOTORS

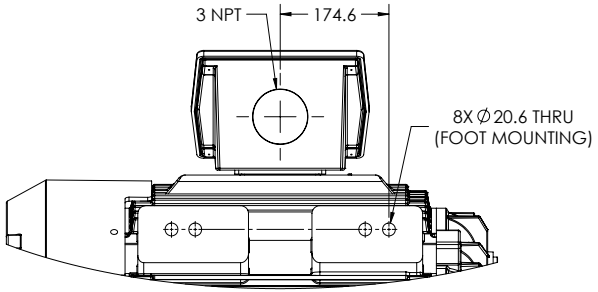
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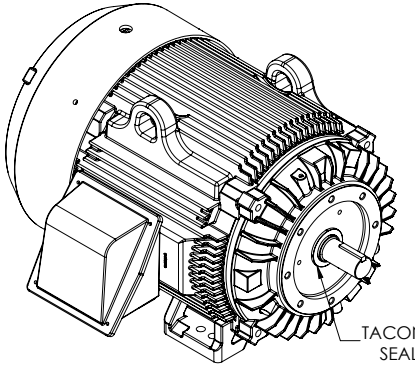
ENCLOSURE: TOTALLY ENCLOSED | SQUIRREL-CAGE INDUCTION | COOLING: FAN COOLED

MOUNTING: FOOT, F-1 | G405TSC/G404TSC FRAME MOUNTING HOLES | ENCLOSURE ENHANCEMENT: SEVERE DUTY









1 OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET.

MAX FACE RUNOUT AND FIT ECCENTRICITY = 0.178 T.I.R.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KG): 612 ± 15 %
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 2 OF 2

617437-732

REV. DESC: NEW DRAWING			
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BY: USJEDIL	Material:	C	

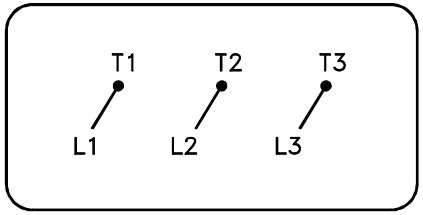
BALDOR

G405/404TSC TEFC FOOT F1/C1 BOX/TACONITE SEALS

617437-732

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