



Customer information packet

ECP49404T-4

400HP, 1785RPM, 3PH, 60HZ, L449T, TEFC

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	L449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	400.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
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	435.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T2C
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	435.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 1 AWG

Part detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5081
Layout	617423-352
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#1 (04 per group)
Proprietary	False
Created date	03-17-2014

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	60.21 IN
Power Factor	89
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	RTD Only

Nameplate

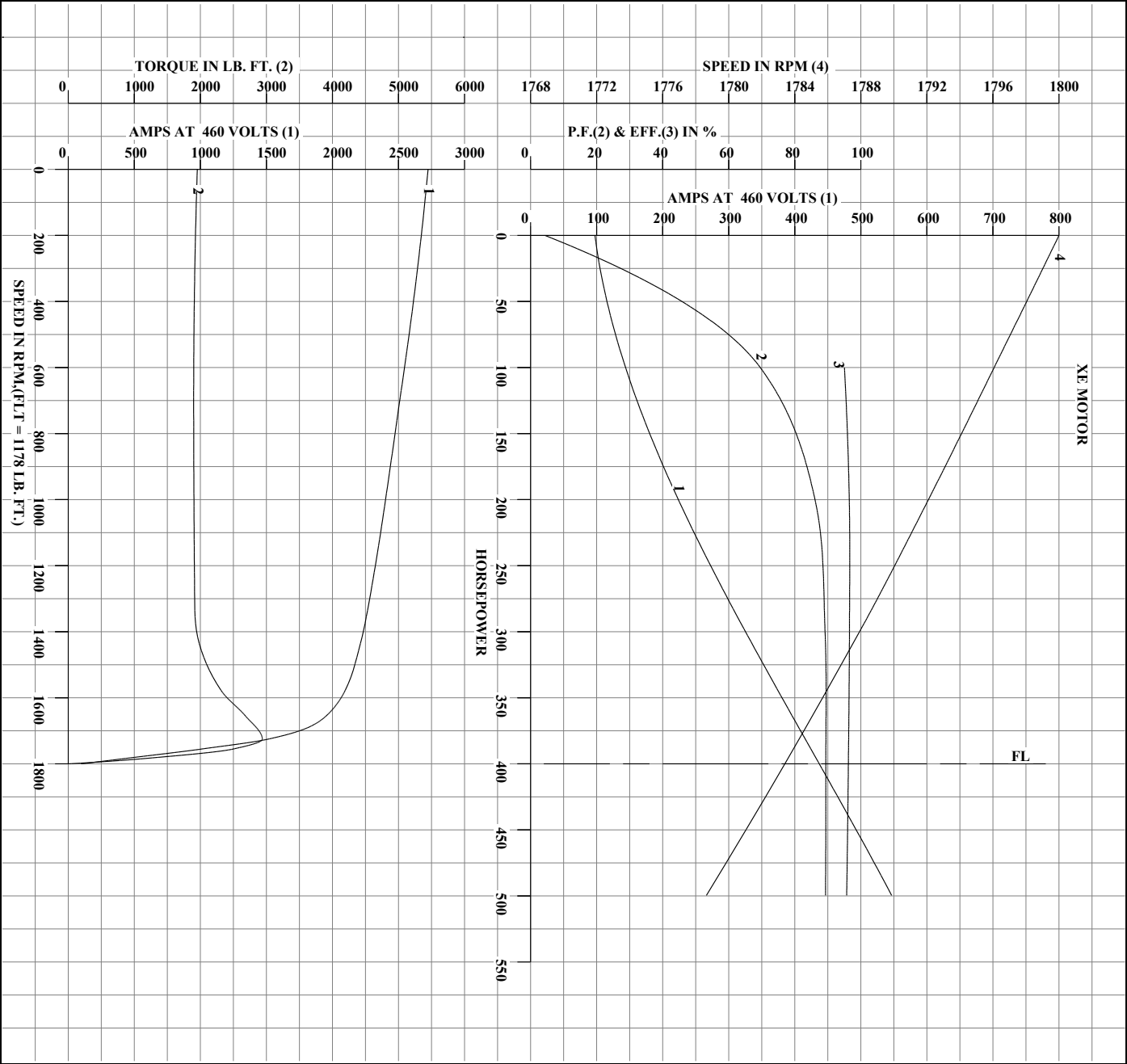
NP3238															
CAT NO	ECP49404T-4			SPEC NO.		P44G5919									
HP	400	AMPS	435		VOLTS		460		DESIGN		B				
FRAME	L 449T	RPM	1785	HZ	60	AMB	40	SF	1.15						
D.E. BRG.DATA	6222		O.D.E. BRG.DATA			6318		PH	3	DUTY	CONT	INSUL.CLASS	F		
D.E. BRG.	110BC02J30X			TYPE	P	ENCL	TEFC	CODE	G						
O.D.E. BRG.	90BC03J30X			POWER FACTOR			89	NEMA NOM EFFICIENCY			96.2				
3/4 LOAD EFF.	96.8		MAX CORR KVAR			54.0		GUARANTEED EFFICIENCY			95.4				
TEMP CODE	T2C	TEMP =		230											
CHP HZ	60-90	CT HZ	30-60		VT HZ	0-60									
INVERTER-TEMP-CODE	T2C														
SER.NO.				MOTOR WEIGHT											

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	400	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
435	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
---	418143041SE	---	---	.00741		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	98.0	1800	4.35	0	
1/4	100	142	1796	69.6	95.0	
2/4	200	225	1792	86.1	96.5	
3/4	300	326	1788	89.2	96.6	
4/4	400	435	1783	89.4	96.2	
5/4	500	547	1779	89.3	95.7	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	166	1953	2724	
PULL UP		700	161	1899	2510	
BREAKDOWN		1725	249	2938	1514	
FULL LOAD		1783	100	1178	435	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA XE MOTOR						
ABB DRAWN BY: C.E. JAMISON CHECKED BY: W.L. SMITH APPROVED BY: W.L. SMITH DATE: 02/17/14 AC MOTOR PERFORMANCE DATA A44WG5081-R001 DATE ISSUED 02/17/14						

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REL.S.O.	FRAME L449T	RPM 1785	S.F. 1.15	ROTOR 418143041SE
HP 400		VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P		AMPS 435	CODE LETTER G	TEST DATE --
PHASE / HERTZ 3/60		DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .00741
		AMB °C / INSUL. 40/F	E/S --	OHMS (BETWEEN LINES)

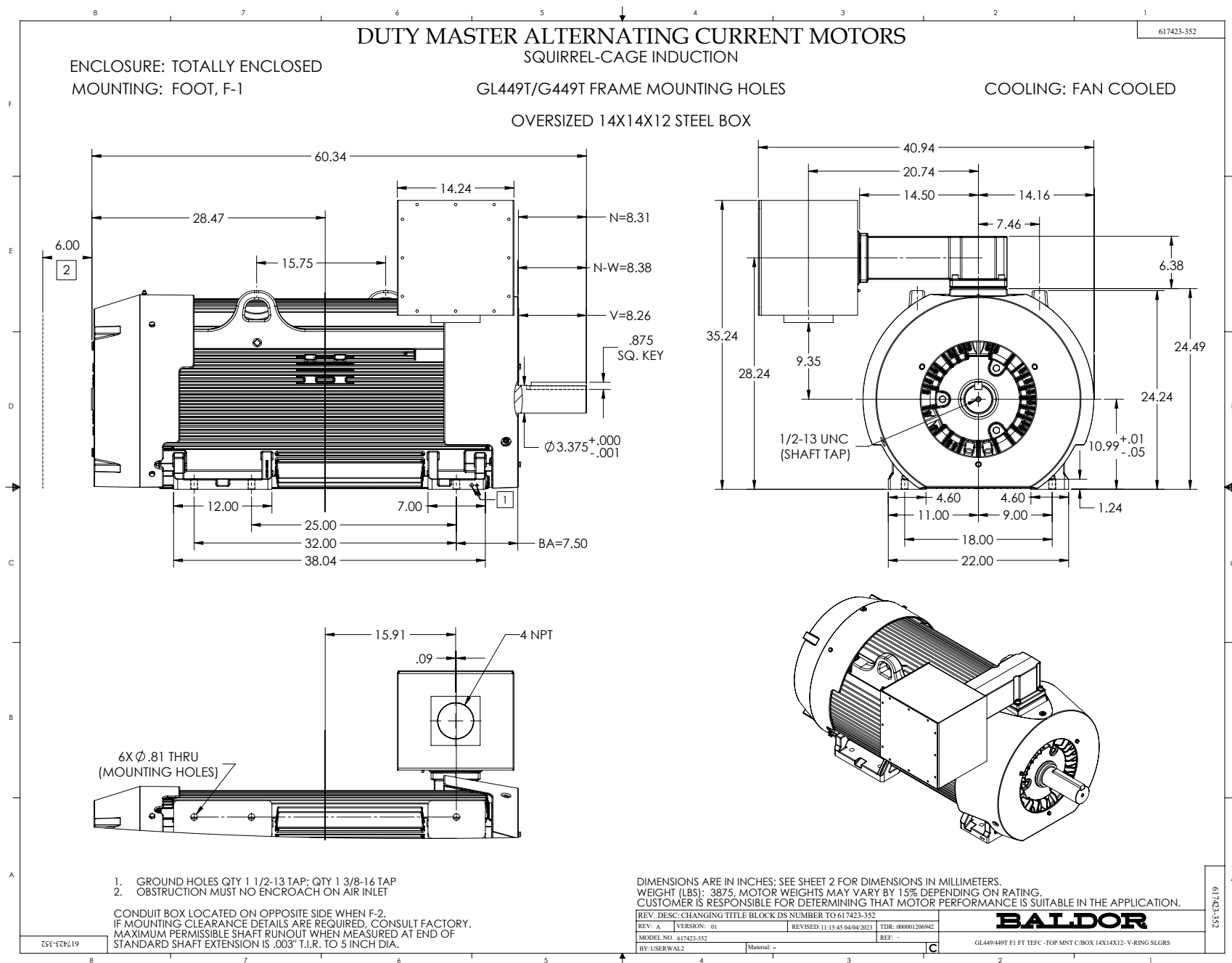


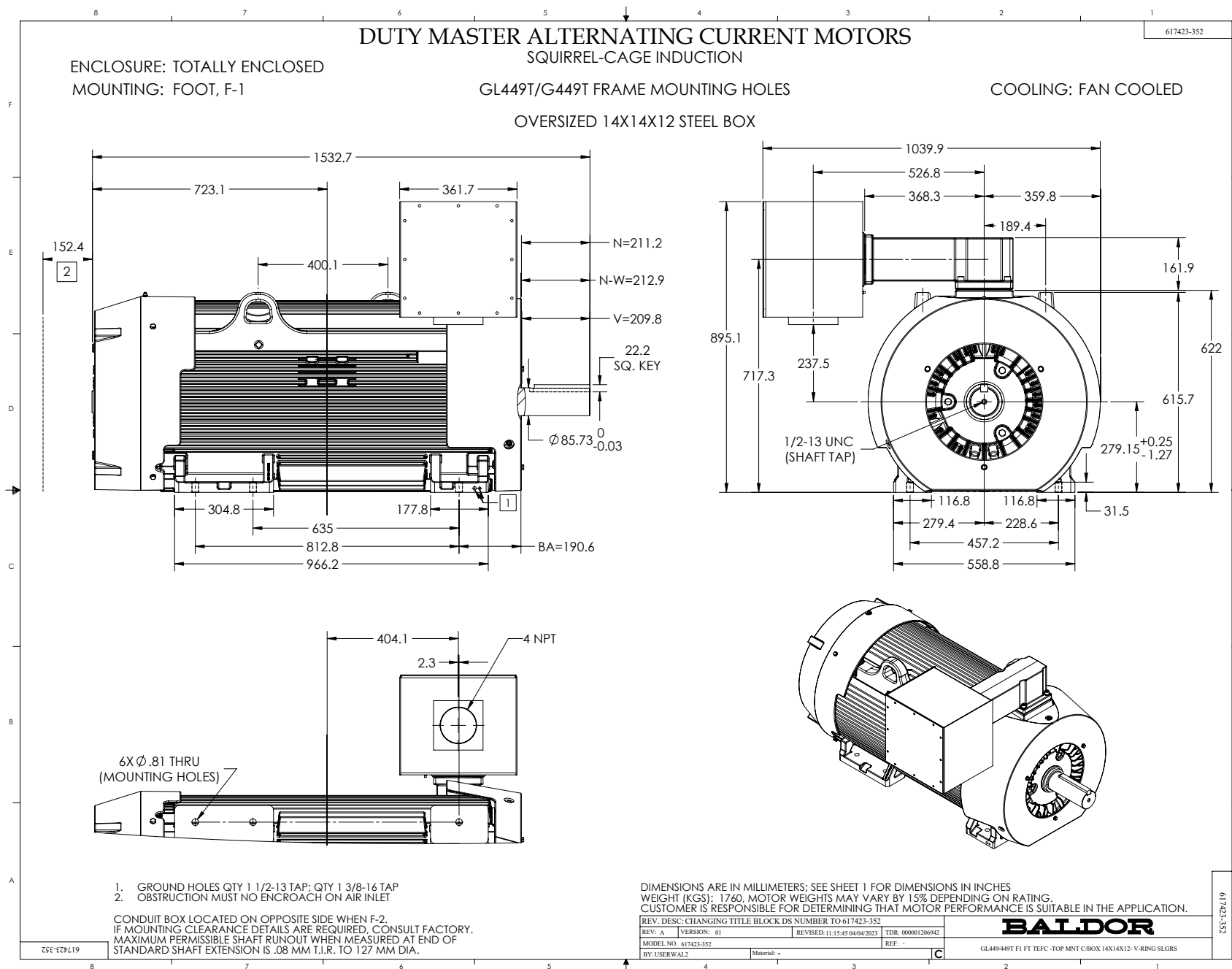
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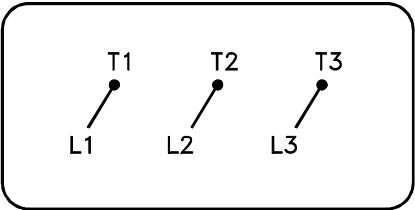
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416820-036

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