



Customer information packet

ECP49354T-5

350HP, 1785RPM, 3PH, 60HZ, L449T, TEFC, F1

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	350.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	309.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	309.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG

Part detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG0036
Layout	617423-494
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	08-25-2017

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	60.47 IN
Power Factor	88
Product Family	General Industrial
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	None

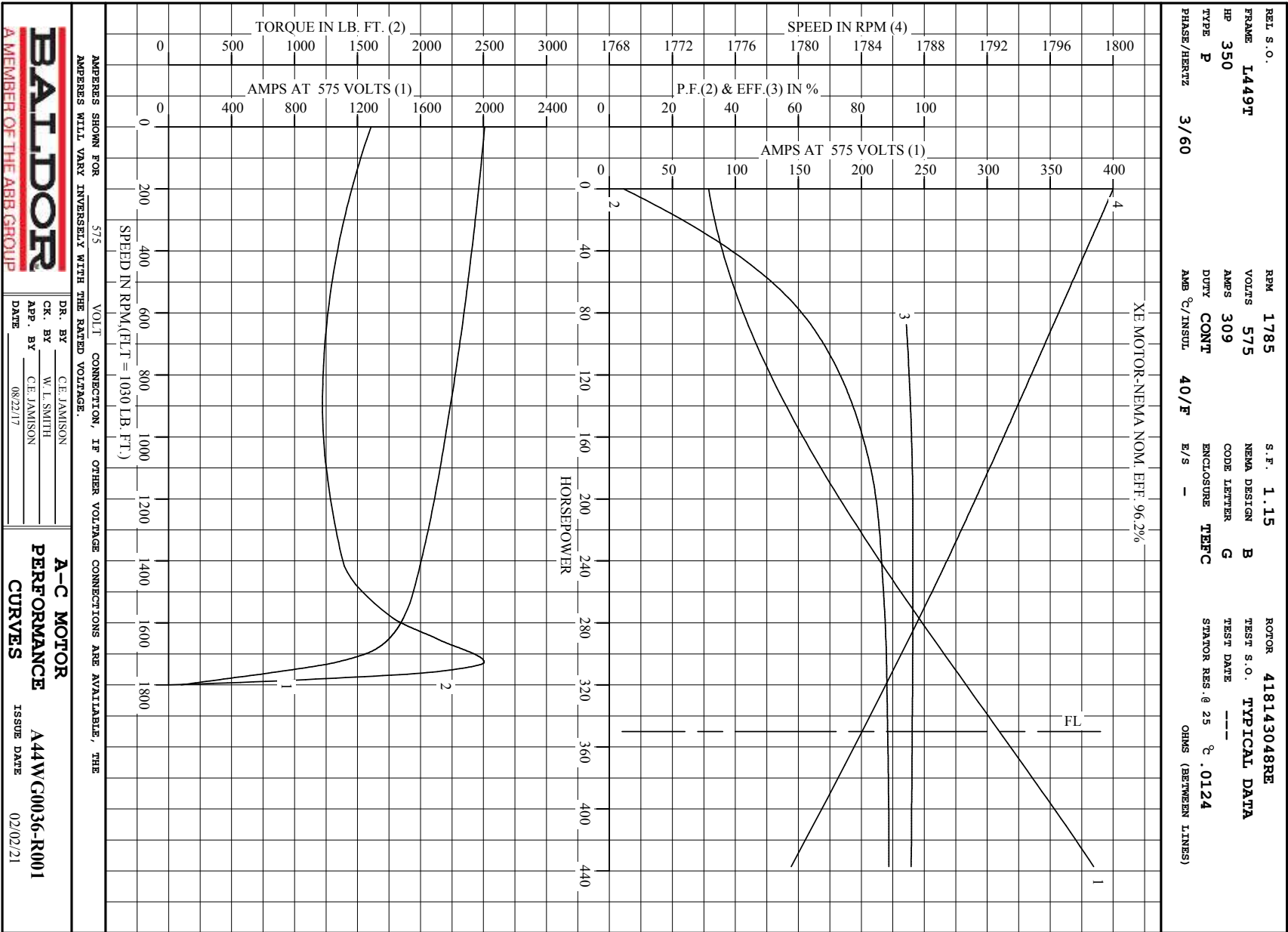
Nameplate

NP2496L	
MOBIL POLYREX EM	

NP3238

CAT NO	ECP49354T-5		SPEC NO.	A44-8910-0036			
HP	350	AMPS	309	VOLTS	575	DESIGN	B
FRAME	L449T	RPM	1785	HZ	60	AMB	40
				SF	1.15		
D.E. BRG.DATA	6318	O.D.E. BRG.DATA	6318	PH	3	DUTY	CONT
				INSUL.CLASS	F		
D.E. BRG.	90BC03J30X		TYPE	P	ENCL	TEFC	CODE
							G
O.D.E. BRG.	90BC03J30X		POWER FACTOR	88	NEMA NOM EFFICIENCY	96.2	
3/4 LOAD EFF.	96.5	MAX CORR KVAR	56	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				

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	350	P	3/60	1785	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
309	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418143048RE	---	---	.0124		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %	
NO LOAD	0	79.3	1800	4.46	0	
1/4	87.6	109	1796	64.0	94.3	
2/4	175	165	1792	82.4	96.2	
3/4	262	234	1788	87.1	96.4	
4/4	350	308	1784	88.4	96.2	
5/4	437	385	1780	88.8	95.8	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	156	1607	2008		
PULL UP	900	119	1222	1790		
BREAKDOWN	1727	243	2505	1065		
FULL LOAD	1784	100	1030	308		
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 96.2%						
BALDOR			A-C MOTOR PERFORMANCE DATA			
DR. BY C. E. JAMISON CR. BY W. L. SMITH APP. BY C. E. JAMISON DATE 08/22/17			A44WG0036-R001 ISSUE DATE 02/02/21			
A MEMBER OF THE ABB GROUP						



REL. S.O.
FRAME I449T
HP 350
TYPE P
PHASE/HERTZ 3/60

RPM 1785
VOLTS 575
AMPS 309
DUTY CONT
AMB °C/INSUL 40/F
E/S -

S.F. 1.15
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S -

ROTOR 418143048RE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES @ 25 °C. 0124
OHMS (BETWEEN LINES)

10.00
9
8
7
6
5
4
3
2
1

OVERLOAD
LOCKED-ROTOR, 40.C
LOCKED-ROTOR
ACCELERATION

1.00
9
8
7
6
5
4
3
2
1

TIME IN SEC.

0 200 400 600 800 1000 1200 1400

% FULL LOAD CURRENT

1.0
9
8
7
6
5
4
3
2
1

THERMAL LIMIT CURVE

REMARKS:
XE MOTOR-NEMA NOM. EFF. 96.2%

AMPERES SHOWN FOR 575
AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

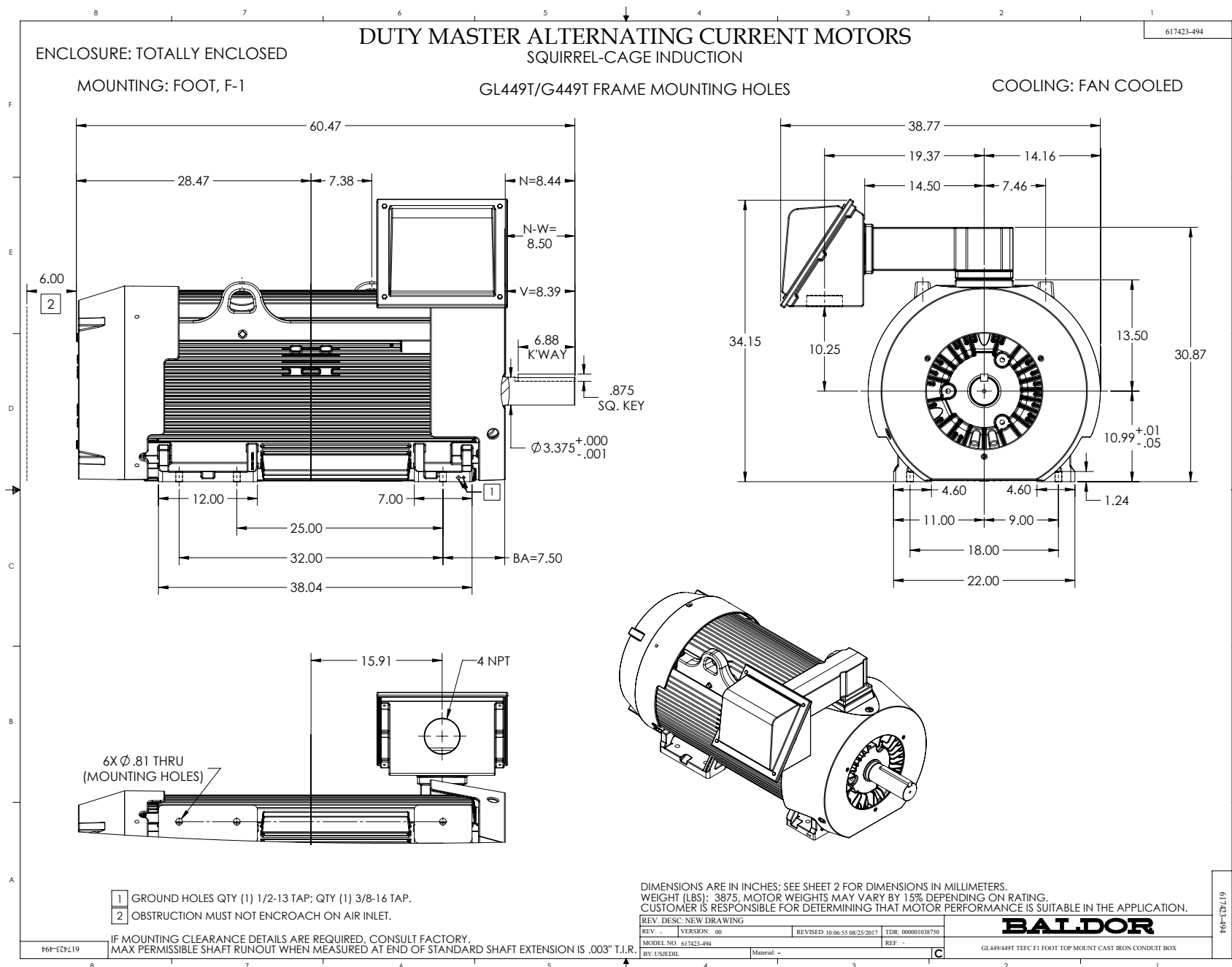
VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE

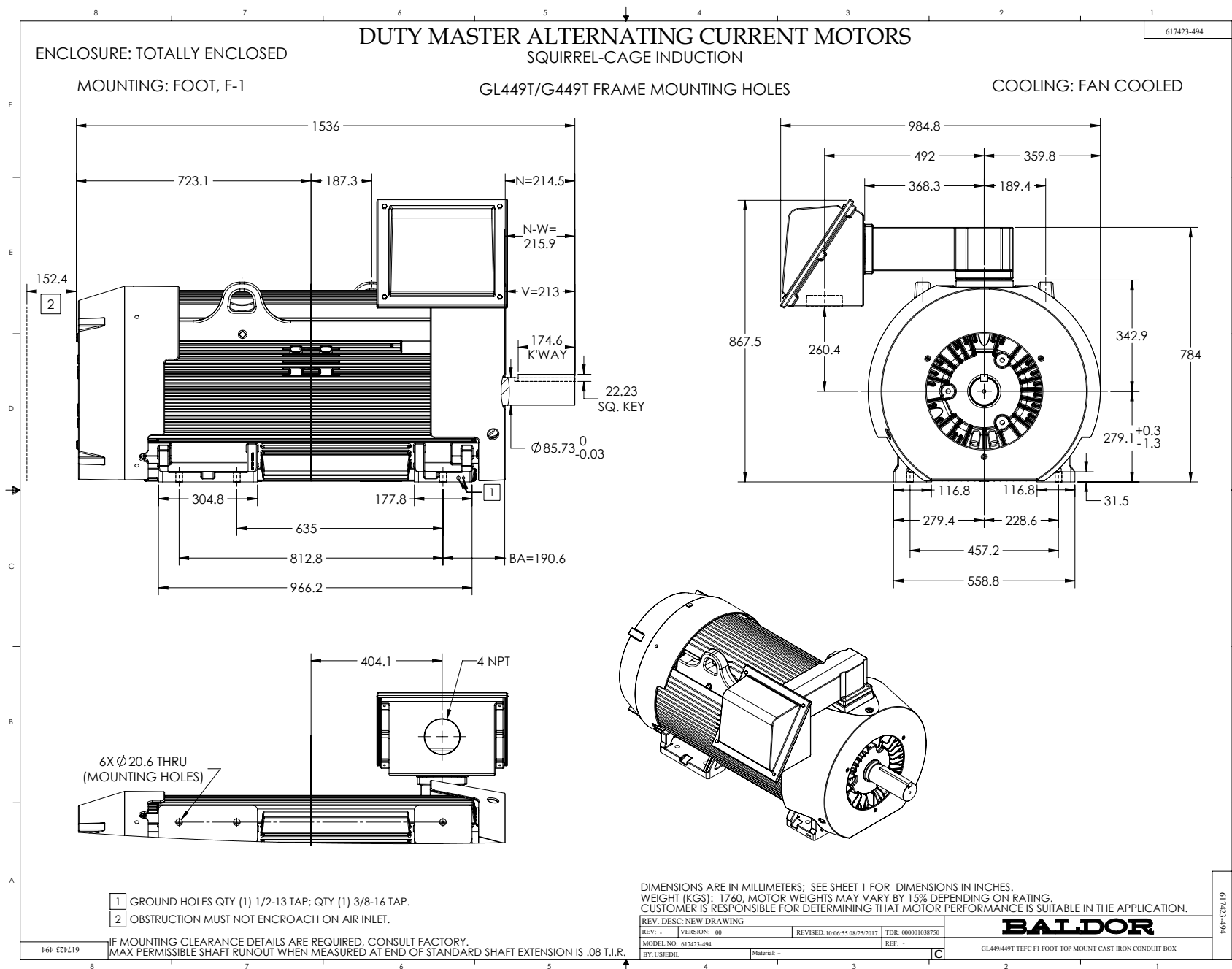
DR. BY CE JAMISON
CK. BY W.L. SMITH
APP. BY CE JAMISON
DATE 08/22/17

A-C MOTOR
PERFORMANCE CURVES
A44WG0036-R001
ISSUE DATE 02/02/21

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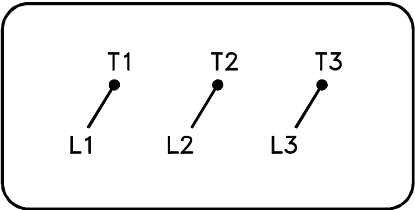
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416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR CONN DIAG - STANDARD 3 LEAD SH 1 of 1
REV. LTR: -	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010	
MTL: -		BY: RAGRA	