

ABB BALDOR RELIANCE III

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%						
		DR. BY	C.E. JAMISON	A-C MOTOR PERFORMANCE DATA		
		CK. BY	W. L. SMITH			
		APP. BY	C.E. JAMISON			
		DATE	08/22/17			
				A44WG0036-R001 ISSUE DATE 02/02/21		

REL S.O.

 RPM **1785**

 S.F. **1.15**

 ROTOR **418143048RE**

 FRAME **L449T**

 VOLTS **575**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **350**

 AMPS **309**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

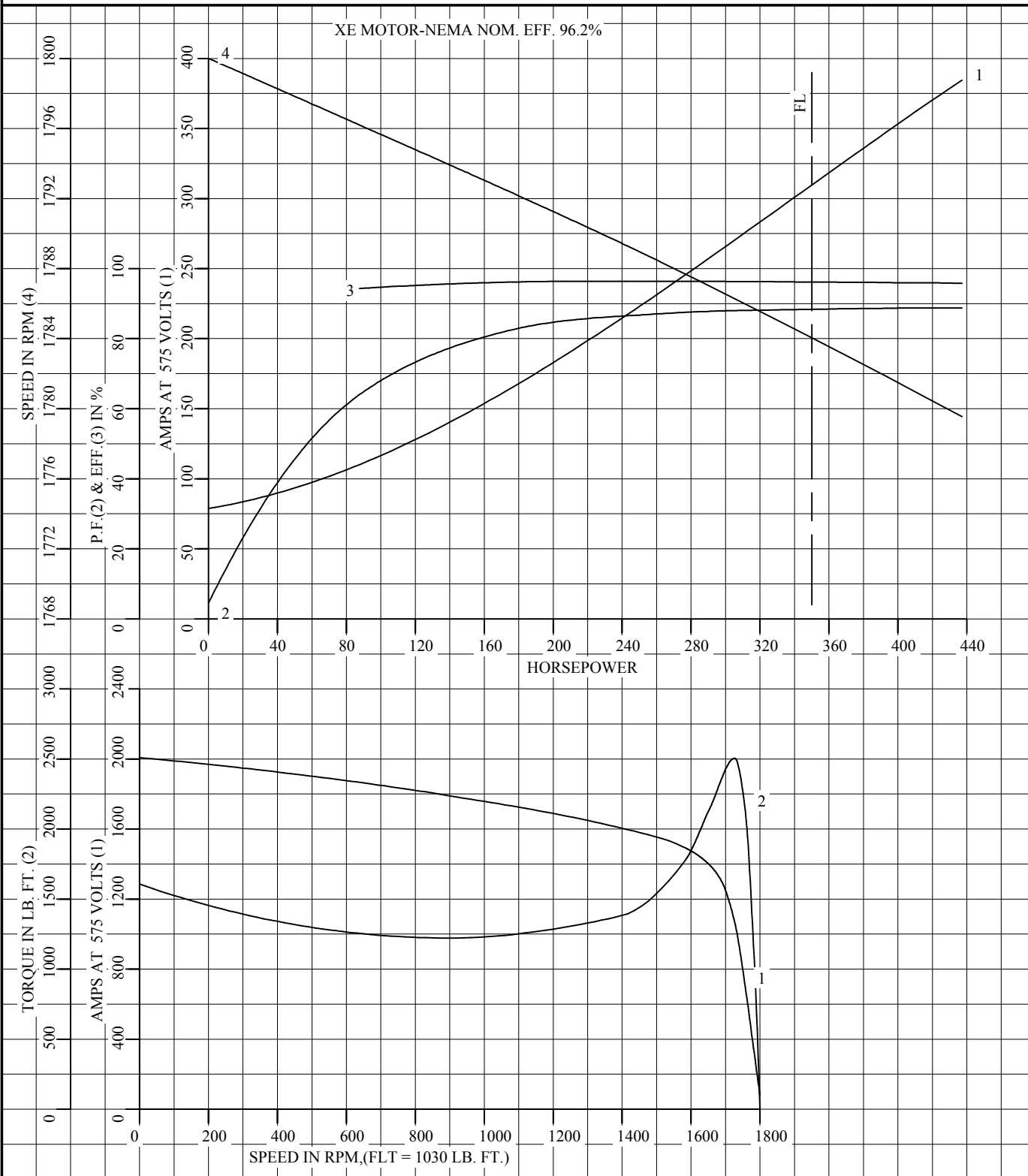
 STATOR RES. @ 25 °C **.0124**

 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.

BALDOR
A MEMBER OF THE ABB GROUP

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

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG0036-R001

ISSUE DATE **02/02/21**

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REL. S.O.

RPM **1785**

S.F. **1.15**

ROTOR **418143048RE**

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VOLTS **575**

NEMA DESIGN **B**

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AMPS **309**

CODE LETTER **G**

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DUTY **CONT**

ENCLOSURE **TEFC**

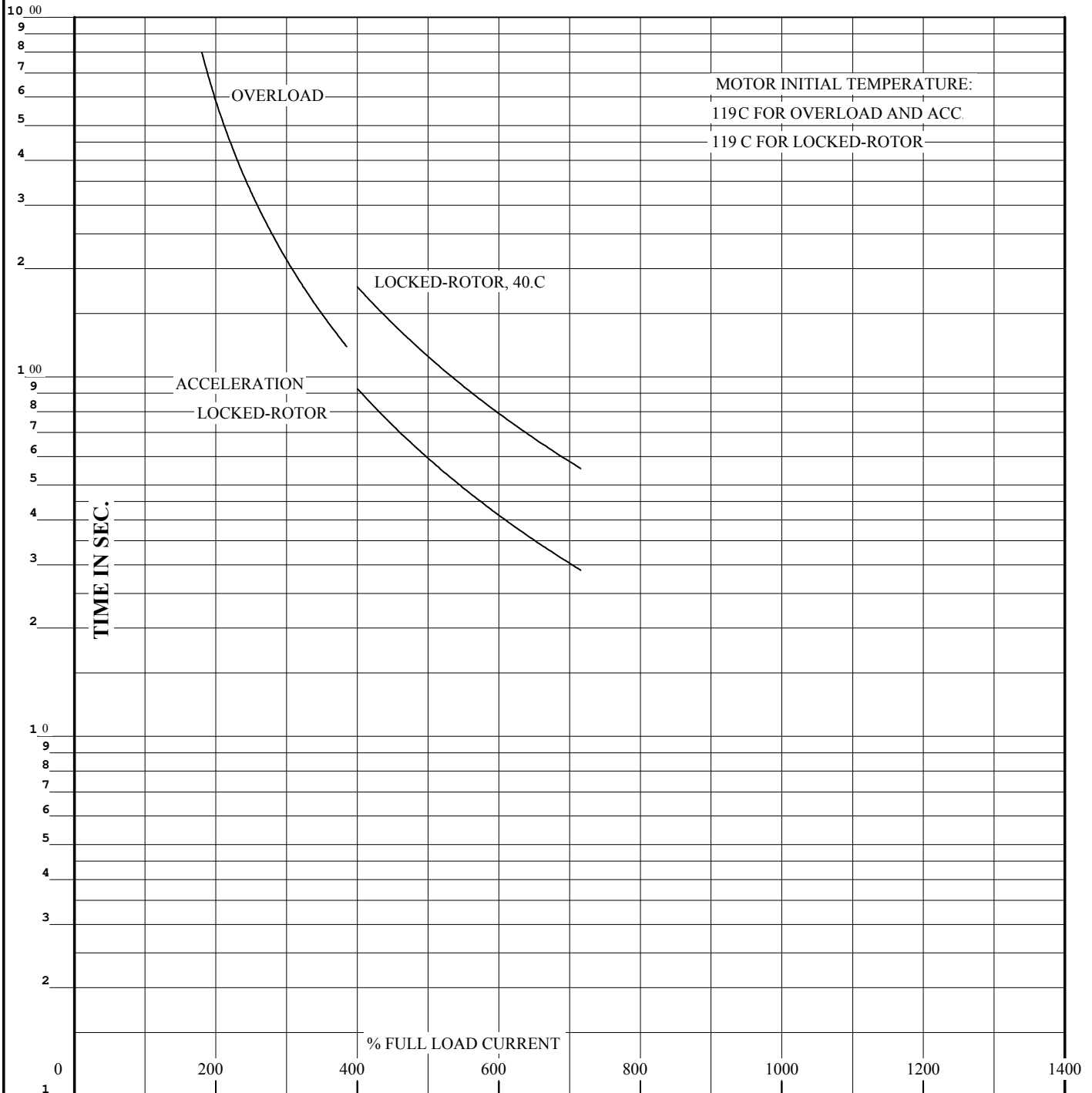
STATOR RES. @ 25 °C **.0124**

PHASE/HERTZ **3/60**

AMB °C/INSUL **40/F**

E/S **-**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

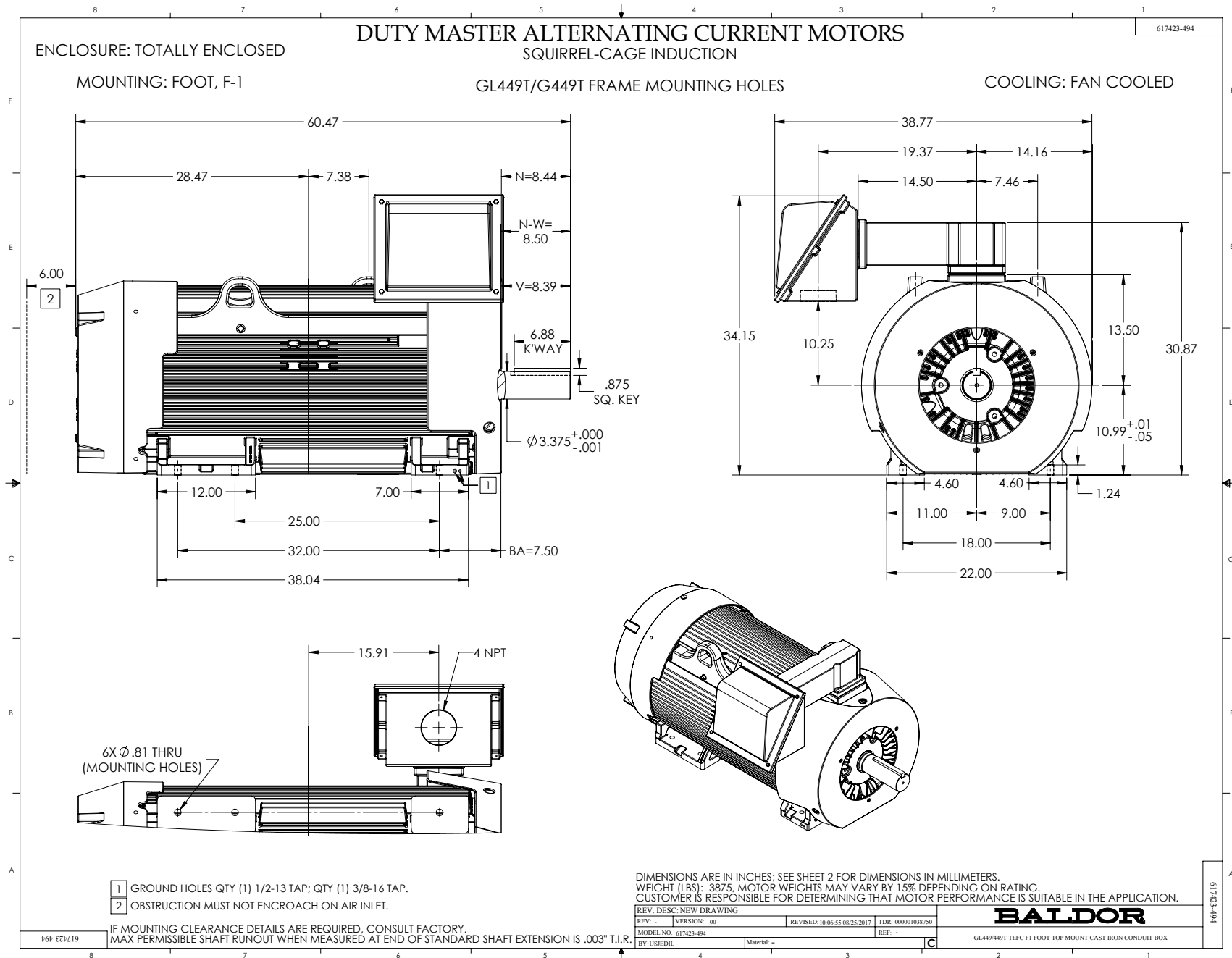
XE MOTOR-NEMA NOM. EFF. 96.2%

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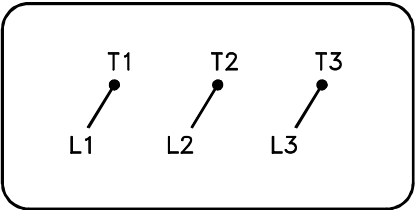
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**A-C MOTOR
PERFORMANCE
CURVES**
A44WG0036-R001

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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