

ABB BALDOR RELIANCE III

Customer information packet

ECP49354T-4

350HP, 1785RPM, 3PH, 60HZ, L449T, A44176M, TEF

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	L449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
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	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	384.000 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	No Heater
High Voltage Full Load Amps	384.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 2 AWG

Part Detail

Revision	Z
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1557
Layout	617423-006
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#2 (04 per group)
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A44176M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	60.21 IN
Power Factor	88
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

NP3238													
CAT NO	ECP49354T-4			SPEC NO.		P44G5908							
HP	350	AMPS	384	VOLTS		460			DESIGN	B			
FRAME	L449T	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			87.9	NEMA NOM EFFICIENCY			96.2		
3/4 LOAD EFF.	96.6	MAX CORR KVAR			50			GUARANTEED EFFICIENCY			95.8		
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									

Parts List

Part number	Description	Quantity
SA208364	SA P44G5908	1.000 ea
RA195629	RA P44G5908	1.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
NP3238	SS CP XEX SEVERE DUTY MAIN NP,CURUS EEV	1.000 ea
000692000FF	N/P	1.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
000692000VD	LABEL WARNING	1.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
032510026D	CARRIAGE BOLT - 440	2.000 ea
604797032	447/449 WIDE SHIPPING SKID 70" X 55"	1.000 ea
004824015A	GREASE POLYREX EM	1.156 lb
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034690005AB	PPLG 3/4 PLATED	2.000 ea
078549001DA	FAN 400 078549001F	1.000 ea
083199082RA	G28 SHORT FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
410700004A	WSHR	1.000 ea
415045002A	SLGR	1.000 ea
415072001B	CLAMP	1.000 ea

415096002A	CPLG 1/8 HEX TYPE	1.000 ea
089490101A	G28 BRKT 089490100WCA	1.000 ea
415915007G	GASK, LAC	1.000 ft
415045002D	SLGR - 440 V1T45B	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
418151014H	RETAIN RING	1.000 ea
702623022A	G28 AIR DEFLECTOR DRIVE END -- PLASTIC	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034530056AB	1/8 X 7 PP NIPPLE	1.000 ea
034530056BB	P/NIP 1/4X7 SCHED 40	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
032130014DB	HSHCS1/2-13X1-3/4 PLATE	4.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
034000016AB	WSHR .531ID 1.062OD .095	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
067053014A	GASK 440	1.000 ea
076870000BA	CONDUIT BOX - 440 - 1/2-13 GROUND	1.000 ea
076871000A	+CBOX CVR BLKT - 449	1.000 ea
406056007A	GASKET, 440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
415030115A	G28 C/BOX 415030114WCA	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea

MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.375 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.094 ga
L482401016	SPRAY AC-29-7S	0.013 ga
421948051	LABEL, MYLAR	1.000 ea
415039027A	GASKET, G28 LEAD THROAT	2.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
412118006A	DRAIN	2.000 ea

ECP49354T-4 - 350HP, 1785RPM, 3PH, 60HZ, L449T, A44176M, TEF						
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449T	350	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
384	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833166	418143048ME	---	---	.0103		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR		% EFFICIENCY
NO LOAD	0	83.7	1800	3.43		0
1/4	87.6	131	1796	65.1		95.9
2/4	175	202	1792	83.6		96.9
3/4	262	289	1788	87.8		96.8
4/4	350	384	1784	88.6		96.4
5/4	438	482	1779	88.7		95.9
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.		AMPERES
LOCKED ROTOR		0	155	1594		2501
PULL UP		1150	132	1363		2249
BREAKDOWN		1728	284	2929		1361
FULL LOAD		1784	100	1031		384
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. 96.2 PCT.						
		DRAWN BY: <u>C.E. JAMISON</u> CHECKED BY: <u>W.L. SMITH</u> APPROVED BY: <u>W.L. SMITH</u> DATE: <u>11/24/10</u>		AC MOTOR PERFORMANCE DATA	A44WG1557-R001 DATE ISSUED 01/05/18	

FRAME L449T

RPM 1785

S.F. 1.15

ROTOR 418143048ME

HP 350

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 384

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

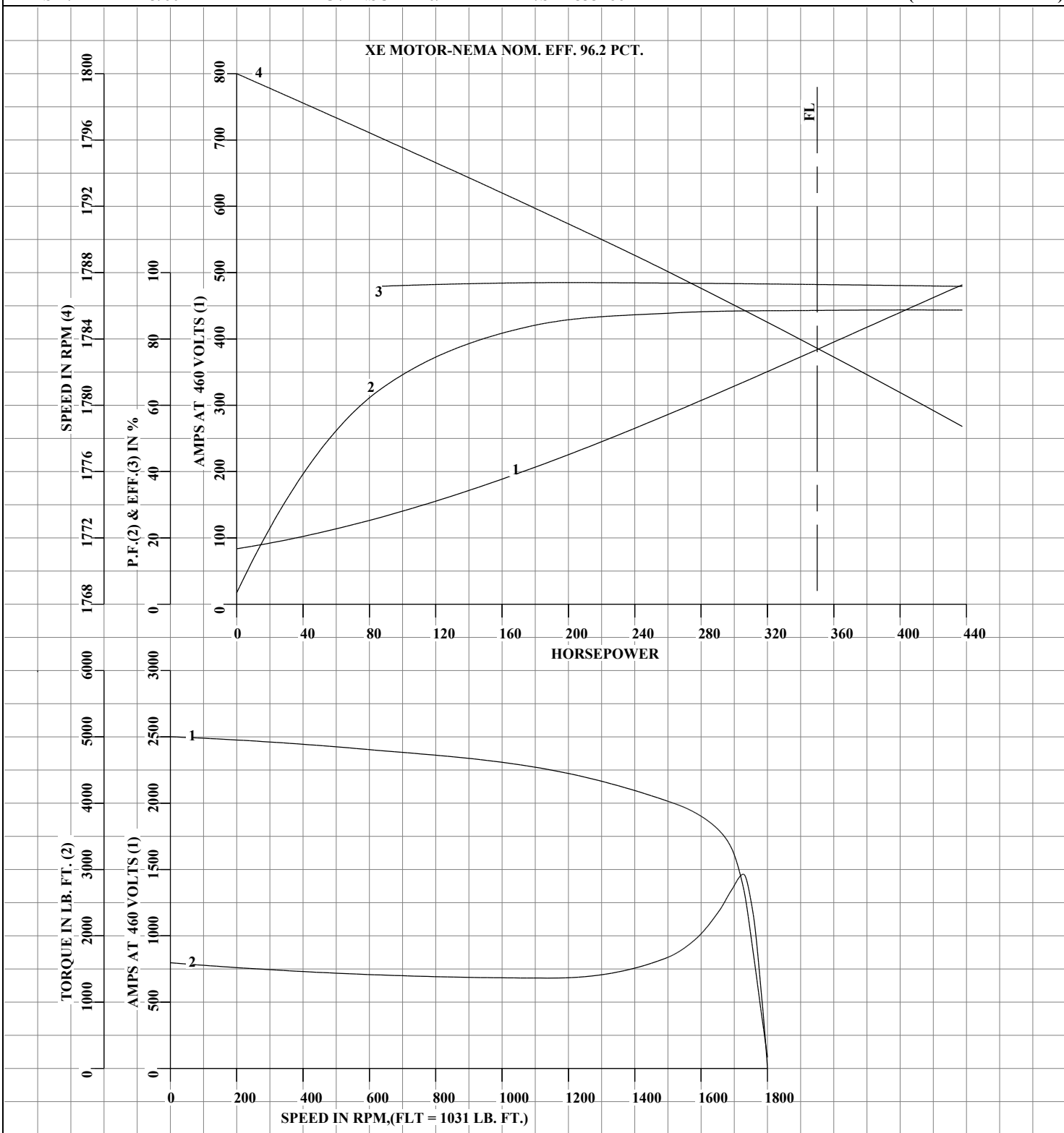
ENCLOSURE TEFC

STATOR RES. @ 25°C .0103

AMB °C / INSUL 40/F

E/S 833166

OHMS (BETWEEN LINES)



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

	DRAWN BY: <u>C.E. JAMISON</u> CHECKED BY: <u>W.L. SMITH</u> APPROVED BY: <u>W.L. SMITH</u> DATE: <u>11/24/10</u>	AC MOTOR PERFORMANCE DATA	A44WG1557-R001 ISSUE DATE 01/05/18
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FRAME L449T

RPM 1785

S.F. 1.15

ROTOR 418143048ME

HP 350

VOLTS 460

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DUTY CONT

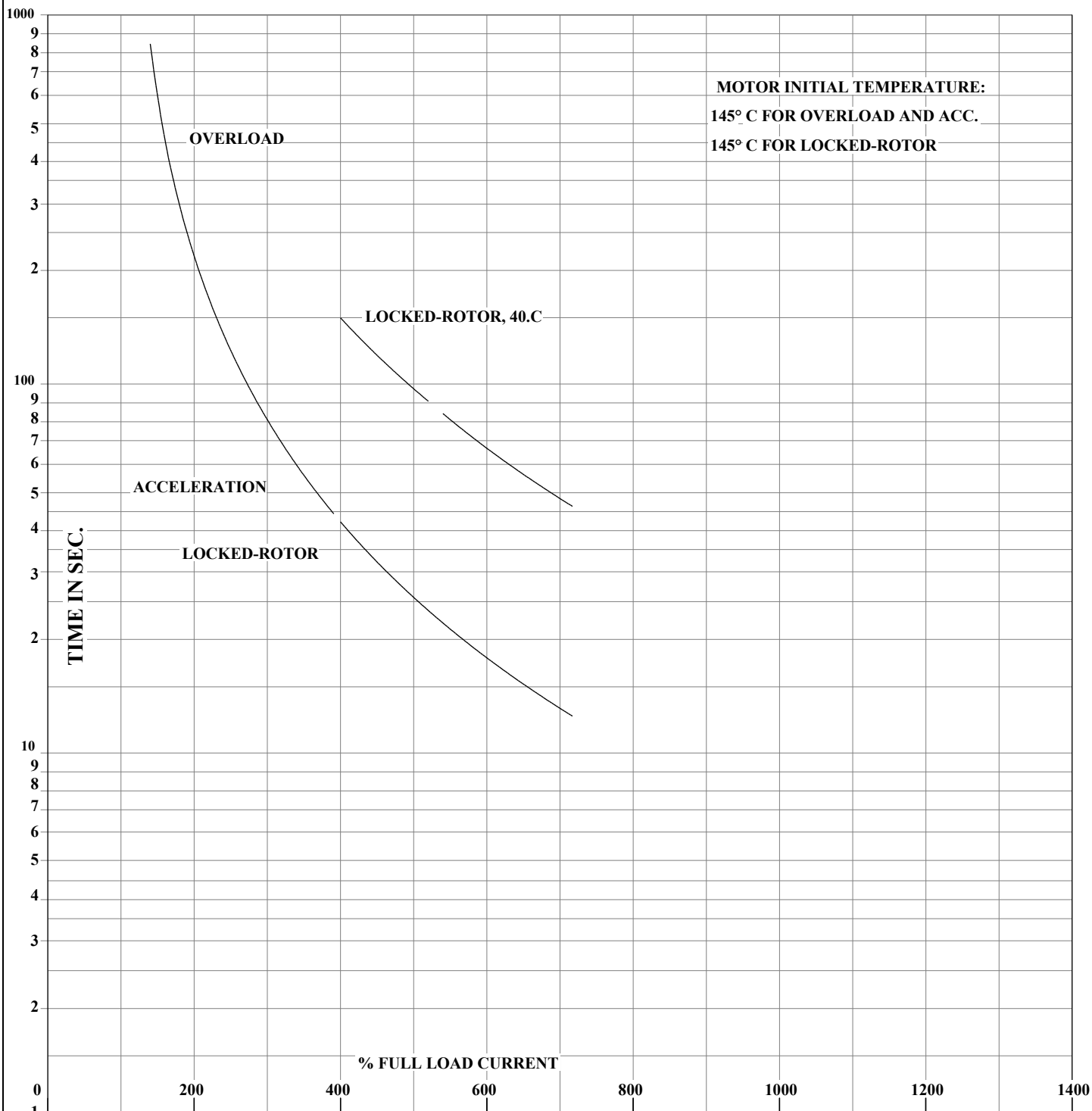
ENCLOSURE TEFC

STATOR RES. @ 25°C .0103

AMB °C / INSUL 40/F

E/S 833166

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

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

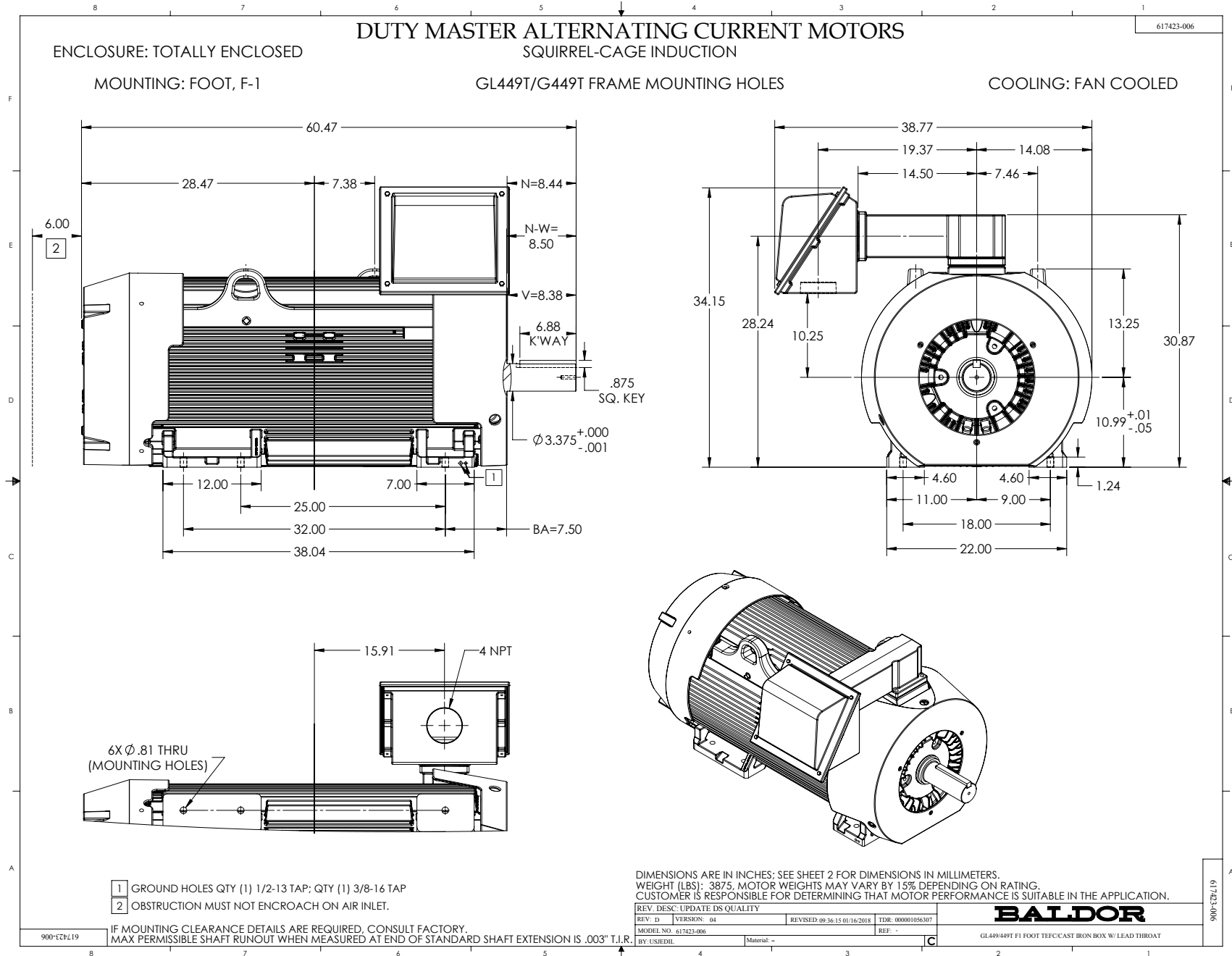


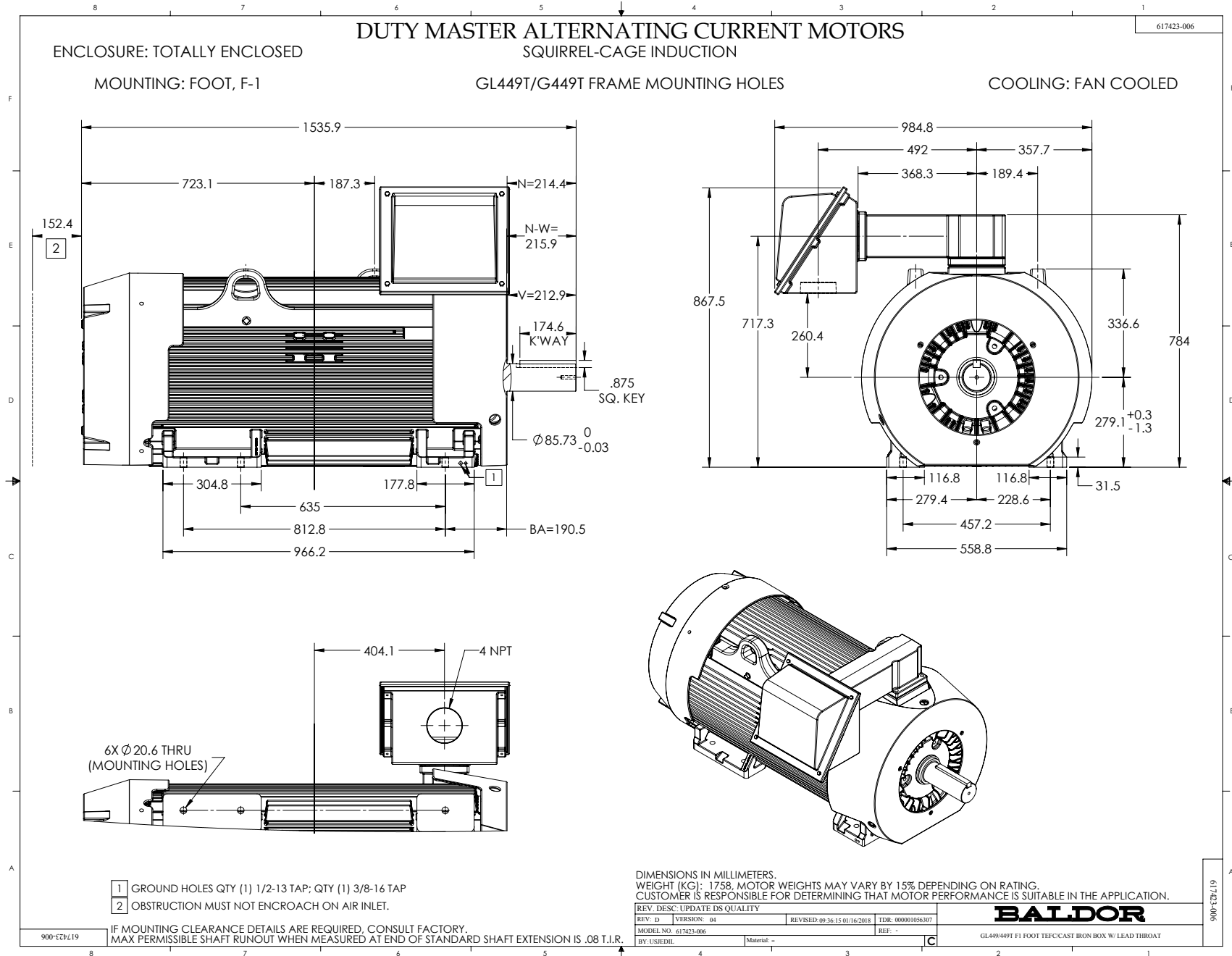
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AC MOTOR
PERFORMANCE
DATA

A44WG1557-R001

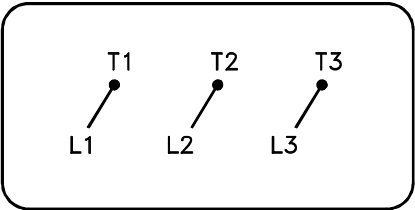
ISSUE DATE 01/05/18





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