ABB BALDOR RELIANCE

Customer information packet

ECP49354T-5

350HP, 1785RPM, 3PH, 60HZ, L449T, TEFC, F1
Class - None
Division - Division II

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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**										

Parts List

Part number	Description	Quantity
SA344196	SA A44-8910-0036	1.000 ea
RA332673	RA A44-8910-0036	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000FF	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
NP3238	SS CP XEX SEVERE DUTY MAIN NP,CURUS EEV	1.000 ea
412118006A	DRAIN	2.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
415072001B	CLAMP	1.000 ea
083199082A	G28 Fan cover machining	1.000 ea
034180014GA	KEY 1/2X1/2X1-3/4 L	1.000 ea
078550001H	FAN KB 120/60 360	1.000 ea
004824015A	GREASE POLYREX EM	1.160 lb
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415045002A	SLGR	1.000 ea
410700004A	WSHR	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	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
034690005AB	PPLG 3/4 PLATED	2.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
702623022A	G28 AIR DEFLECTOR DRIVE END -- PLASTIC	1.000 ea
418151014G	RETAIN RING	1.000 ea

034630002AB	CPLG 1/4" PLATED	1.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
415045002A	SLGR	1.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034001013AB	FLTW BAFFLE	3.000 ea
415915007G	GASK, LAC	1.000 ft
076870000BA	CONDUIT BOX - 440 - 1/2-13 GROUND	1.000 ea
406056007A	GASKET, 440	1.000 ea
415039027A	GASKET, G28 LEAD THROAT	1.000 ea
076871000A	+CBOX CVR BLKT - 449	1.000 ea
067053014A	GASK 440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
415030115A	G28 C/BOX 415030114WCA	1.000 ea
032130014DB	HSHCS1/2-13X1-3/4 PLATE	4.000 ea
034000016AB	WSHR .531ID 1.062OD .095	4.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.500 ga

033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
604797032	447/449 WIDE SHIPPING SKID 70" X 55"	1.000 ea
032510026D	CARRIAGE BOLT - 440	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea

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%

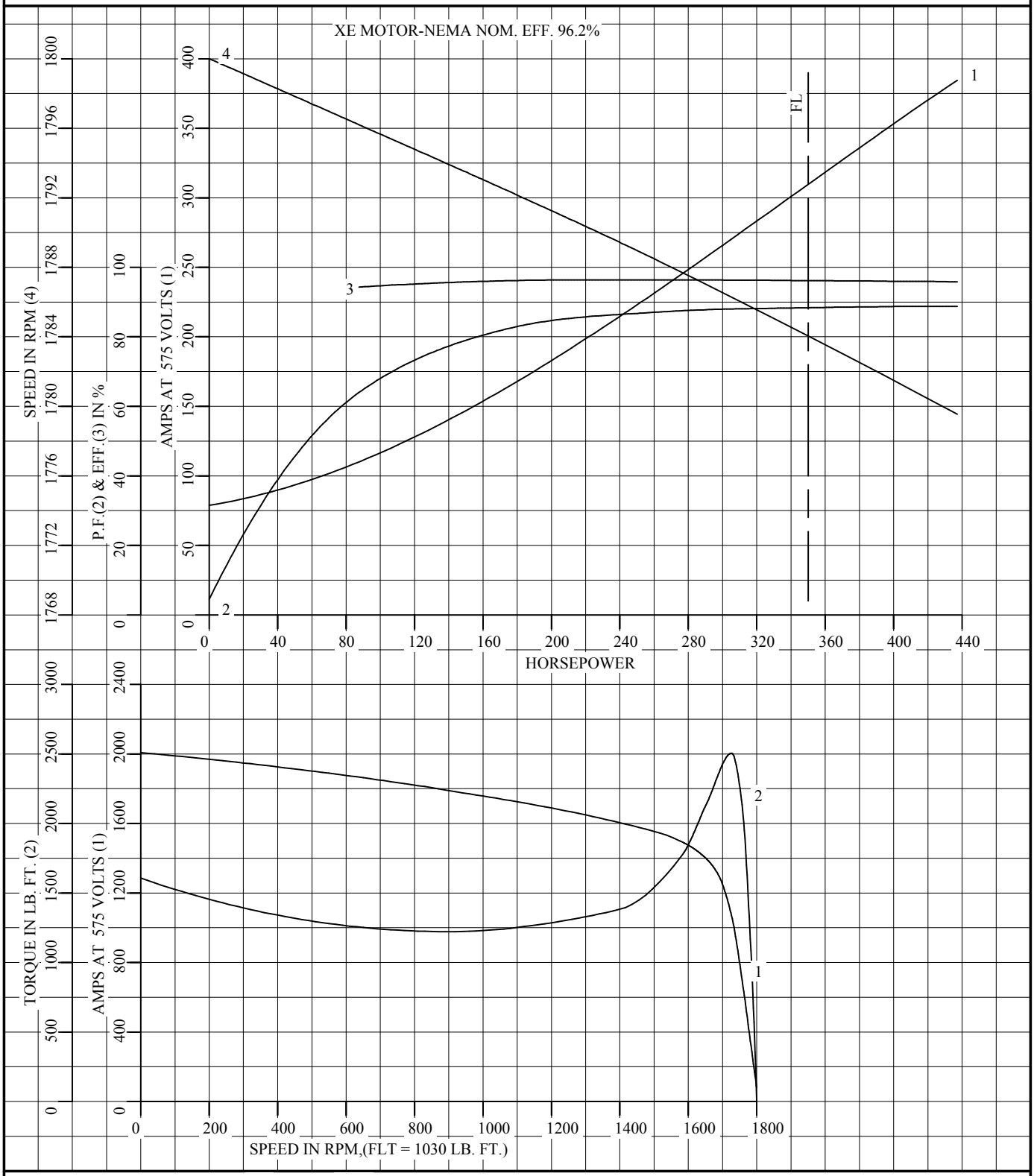
BALDOR
A MEMBER OF THE ABB GROUP

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

A-C MOTOR PERFORMANCE DATA

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.

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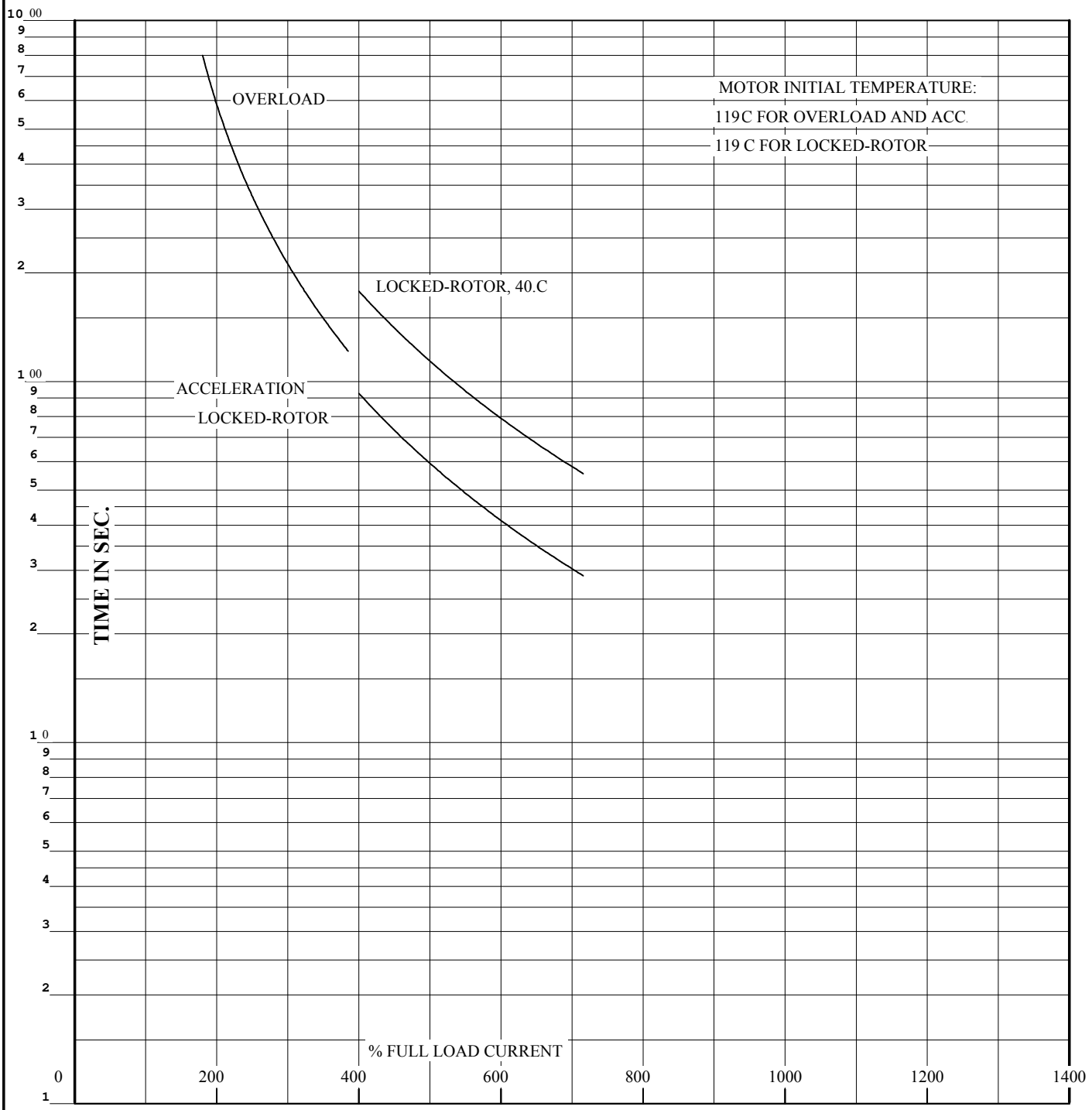
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CK. BY	W. L. SMITH
APP. BY	C.E. JAMISON
DATE	08/22/17

A-C MOTOR PERFORMANCE CURVES

A44WG0036-R001

ISSUE DATE 02/02/21

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)



THERMAL LIMIT CURVE

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

AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

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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

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

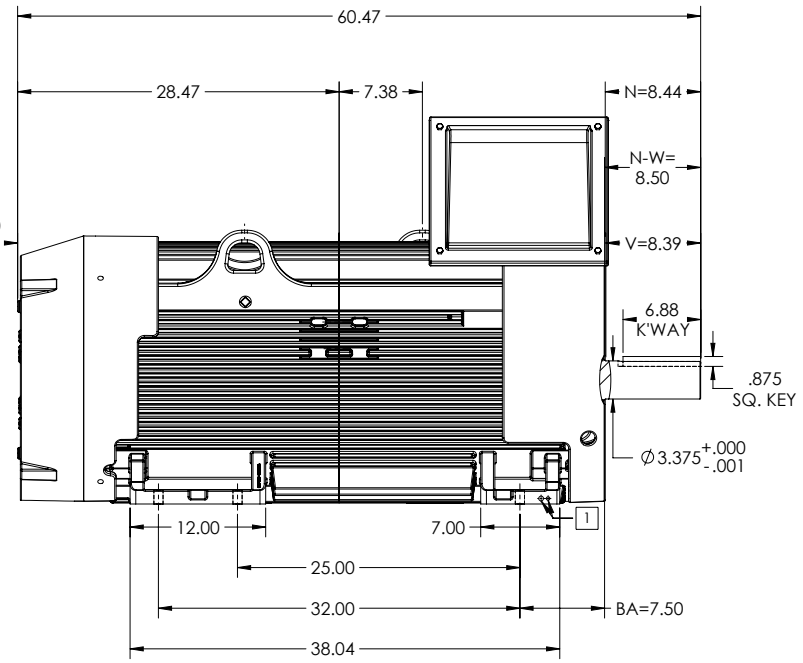
617423-494

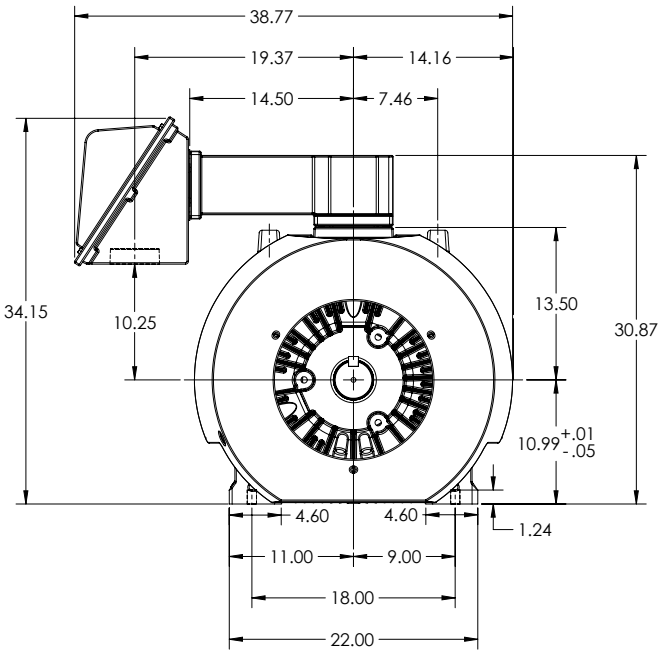
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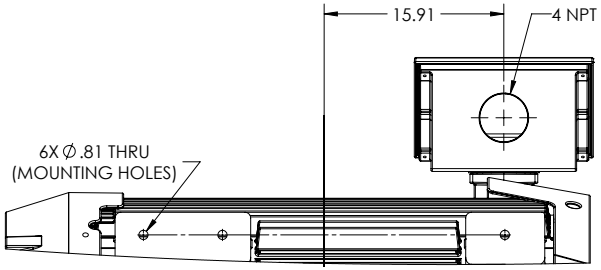
MOUNTING: FOOT, F-1

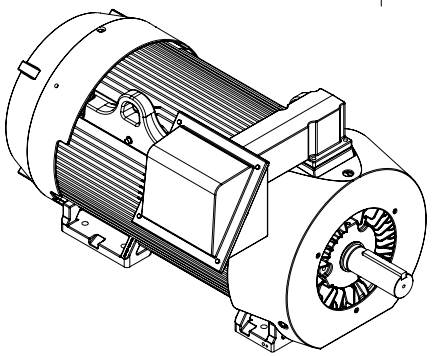
GL449T/G449T FRAME MOUNTING HOLES

COOLING: FAN COOLED









1 GROUND HOLES QTY (1) 1/2-13 TAP; QTY (1) 3/8-16 TAP.

2 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

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; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS.
WEIGHT (LBS): 3875, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 10:06:55 08/25/2017	TDR: 000001038750
MODEL NO. 617423-494			REF: -
BY: USJEDIL	Material: –	C	

BALDOR

GL449/449T TEFC F1 FOOT TOP MOUNT CAST IRON CONDUIT BOX

617423-494

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

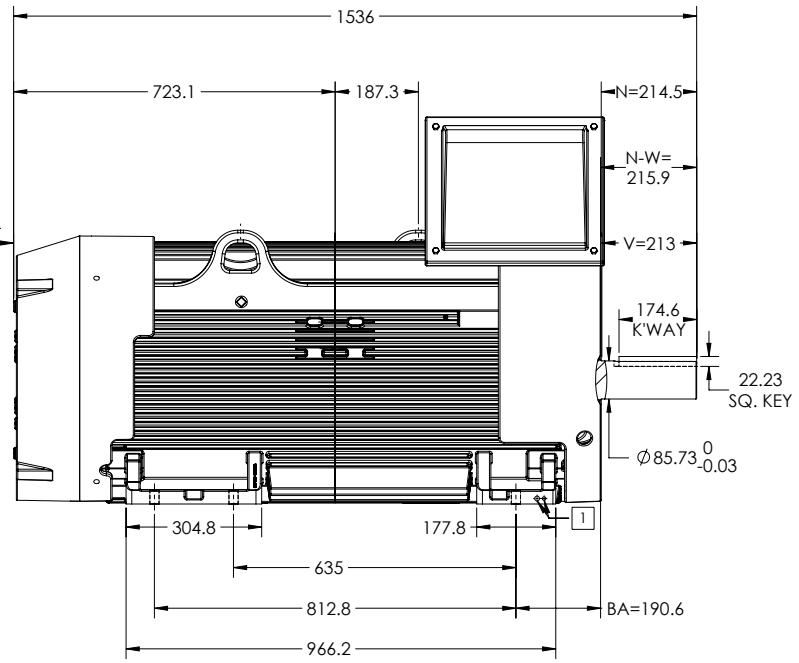
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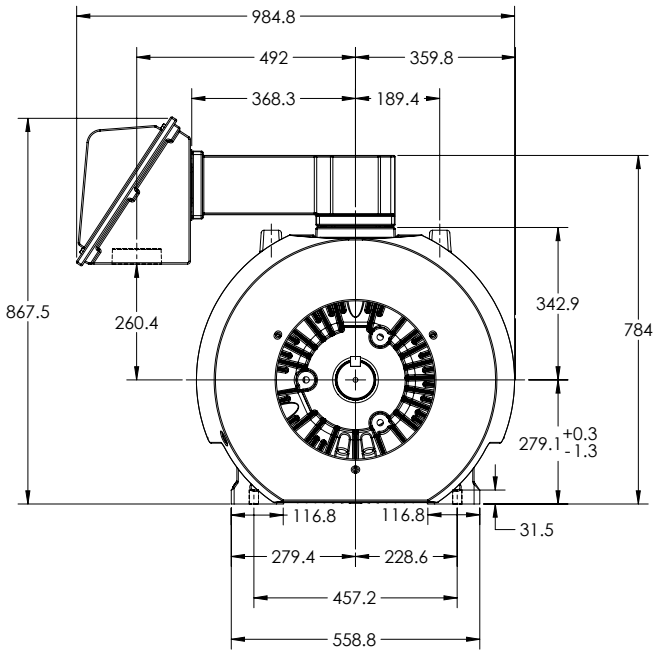
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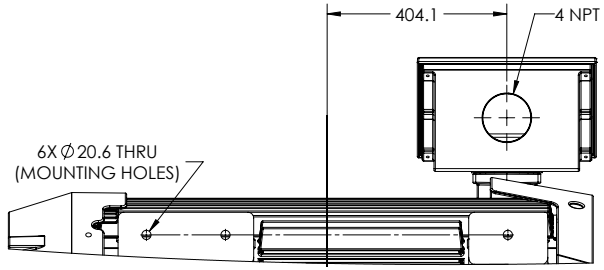
MOUNTING: FOOT, F-1

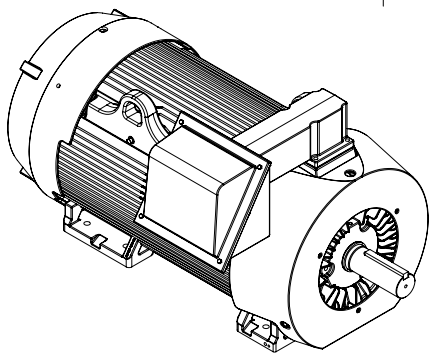
GL449T/G449T FRAME MOUNTING HOLES

COOLING: FAN COOLED









1 GROUND HOLES QTY (1) 1/2-13 TAP; QTY (1) 3/8-16 TAP.

2 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

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; SEE SHEET 1 FOR DIMENSIONS IN INCHES.
WEIGHT (KGS): 1760, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 10:06:55 08/25/2017	TDR: 000001038750
MODEL NO. 617423-494			REF: -
BY: USJEDIL	Material: –	C	

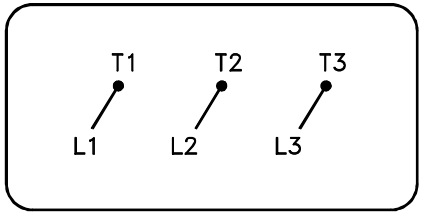
BALDOR

GL449/449T TEFC F1 FOOT TOP MOUNT CAST IRON CONDUIT BOX

617423-494

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