ABB BALDOR RELIANCE

Customer information packet

ECP49404T-5

400HP, 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	400.000 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	356.000 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	356.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Motor Lead Quantity/Wire Size	12 @ 1 AWG

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5532
Layout	617423-494
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#1 (04 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	ECP49404T-5	**SPEC NO.**	A44-8455-5532									
HP	400	**AMPS**	356	**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.	96.3	**MAX CORR KVAR**	69	**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	400	P	3/60	1785	575

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
356	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
-	418143048REQ	---	---	.0107

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	93.6	1800	5.06	0
1/4	100	127	1796	63.0	93.5
2/4	200	191	1793	81.7	95.8
3/4	300	270	1789	86.4	96.3
4/4	400	356	1785	87.6	96.2
5/4	500	443	1780	88.2	95.8

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	175	2054	2320
PULL UP	1170	136	1607	2118
BREAKDOWN	1725	254	2987	1317
FULL LOAD	1785	100	1177	356

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

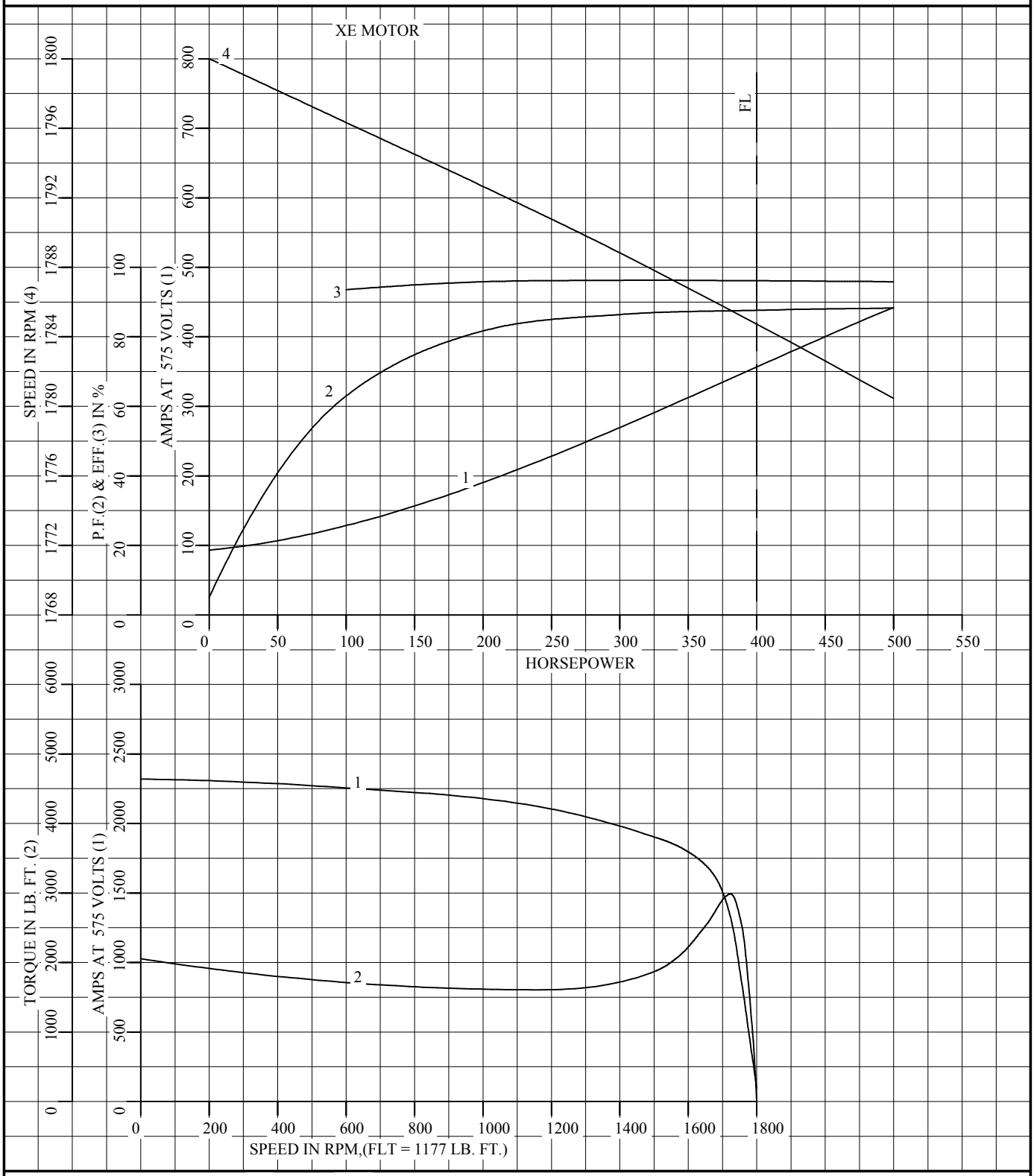
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY C.E. JAMISON
CK. BY W.L. SMITH
APP. BY C.E. JAMISON
DATE 08/23/17

A-C MOTOR PERFORMANCE DATA

A44WG5532-R002
ISSUE DATE 08/30/17

REL S.O.		RPM	1785	S.F.	1.15	ROTOR	418143048REQ
FRAME	L449T	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	400	AMPS	356	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.0107
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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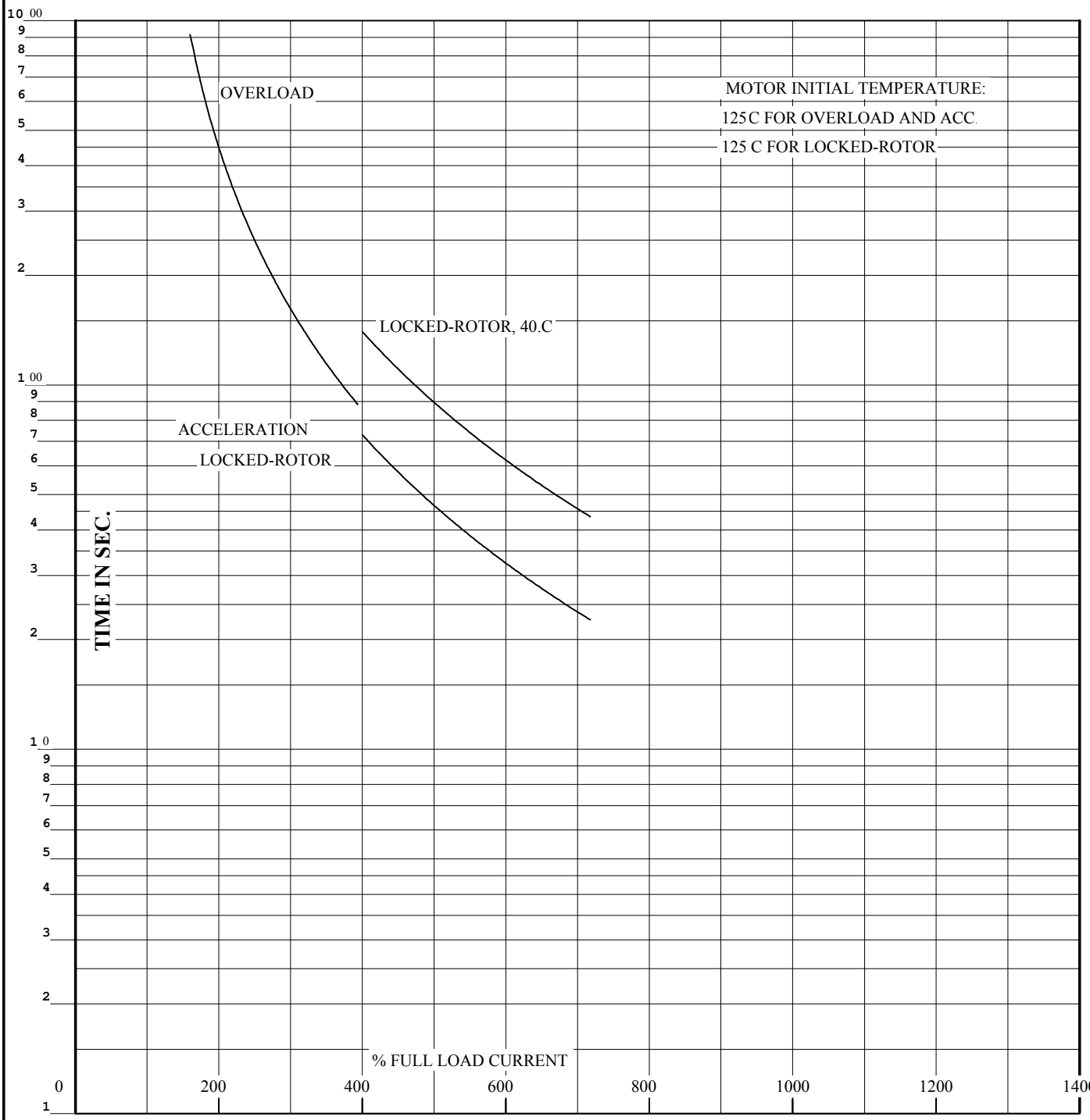
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CK. BY	W.L. SMITH
APP. BY	C.E. JAMISON
DATE	08/23/17

A-C MOTOR PERFORMANCE CURVES

A44WG5532-R002

ISSUE DATE 08/30/17

REL. S.O.		RPM	1785	S.F.	1.15	ROTOR	418143048REQ
FRAME	L449T	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	400	AMPS	356	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.0107
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	-		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR

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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DATE	08/23/17

A-C MOTOR PERFORMANCE CURVES

A44WG5532-R002

ISSUE DATE 08/30/17

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

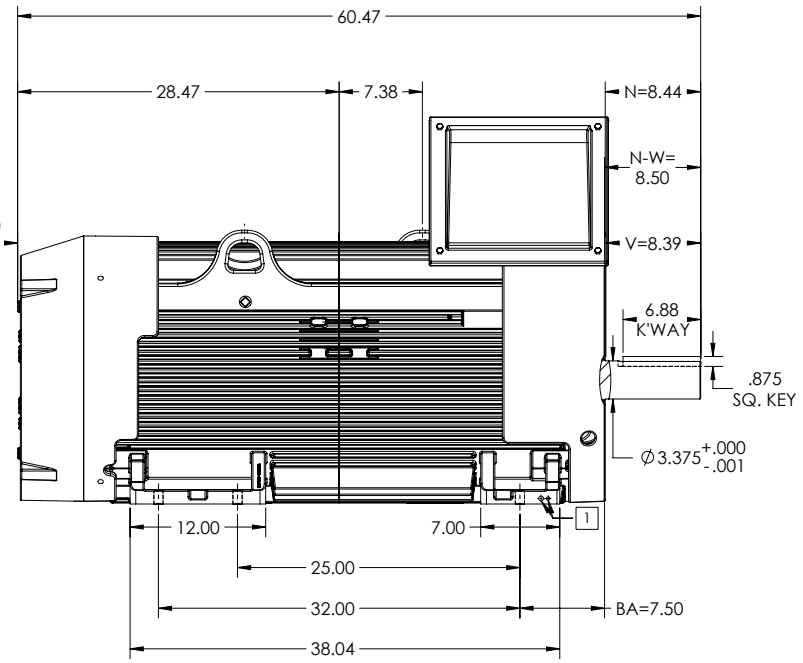
617423-494

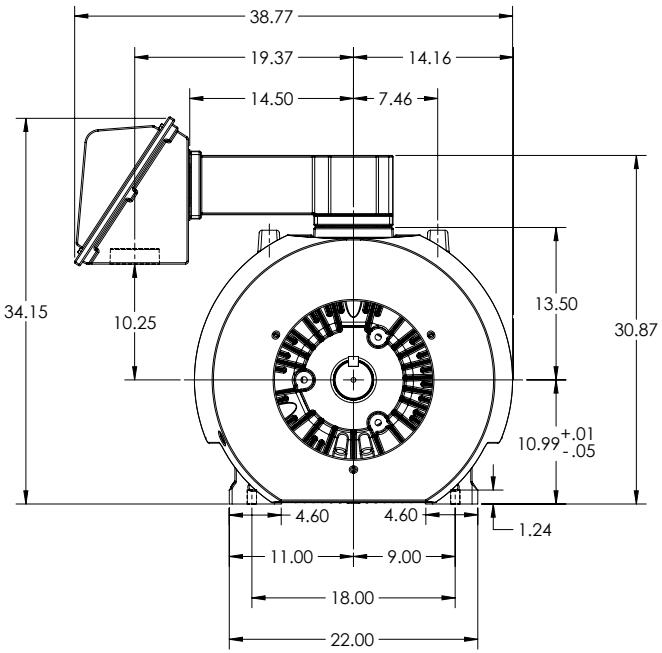
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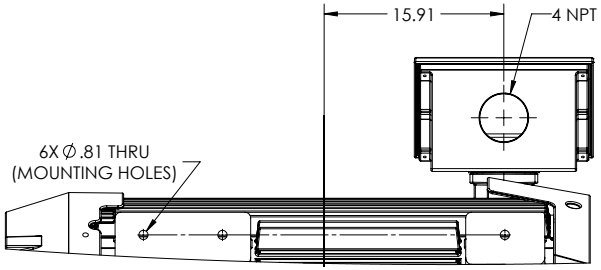
MOUNTING: FOOT, F-1

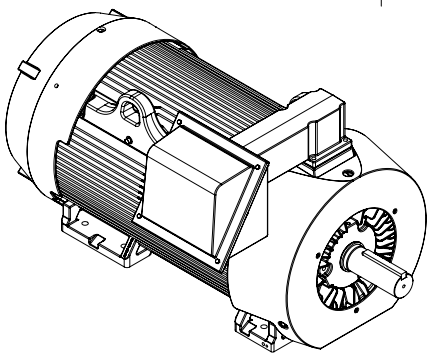
GL449T/G449T FRAME MOUNTING HOLES

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

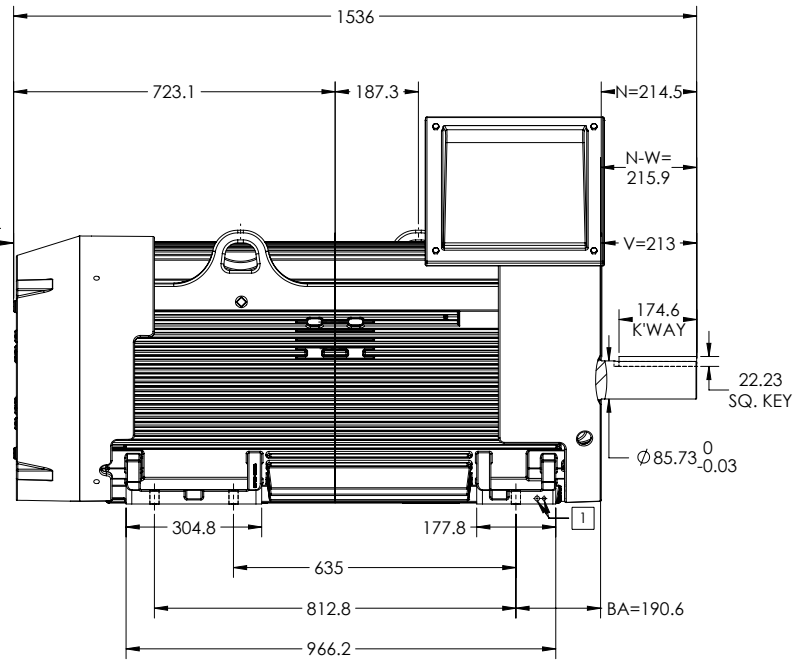
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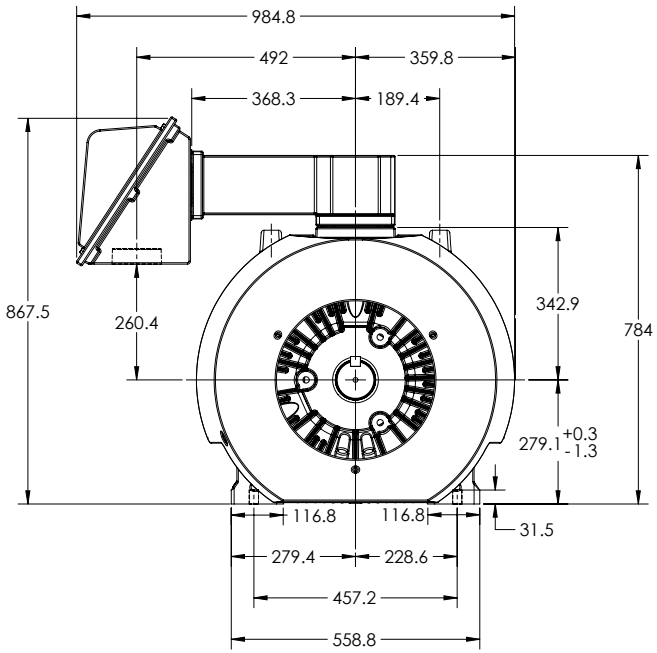
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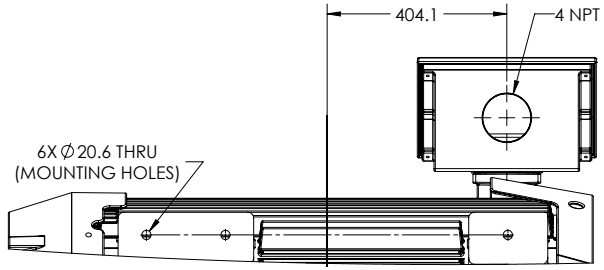
MOUNTING: FOOT, F-1

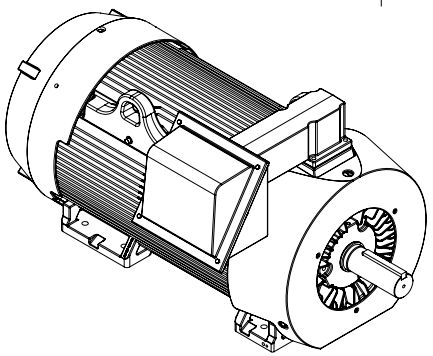
GL449T/G449T FRAME MOUNTING HOLES

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	

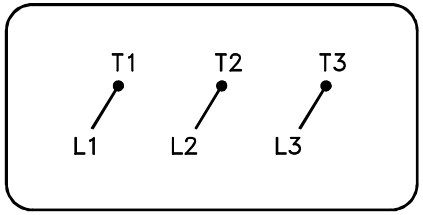
BALDOR

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