ABB BALDOR RELIANCE

Customer information packet

SPM4408TR-4

250HP, 1790RPM, 3PH, 60HZ, L449T, A44176M, TEF
Class - CLI GP A,B,C,D; CLII GP F,G
Division - Division II

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11/10/2026 11:21:35 AM

Specifications

Enclosure	TEFC
Frame	L449T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D; CLII GP F,G
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Current @ Voltage	280.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.5 %
Feedback Device	NO FEEDBACK
Frame Prefix	L
Heater Indicator	No Heater
High Voltage Full Load Amps	280.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG6739
Layout	617439-178
Eff. date	09-24-2026
CD Diagram	416820-036
Poles	04
Leads	3#1 (02 per group) Y
Proprietary	False
Created date	09-26-2023

Motor Lead Quantity/Wire Size	6 @ 1 AWG
Motor Standards	NEMA
Motor Type	A44176M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	60.34 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Roller
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1790 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL SHC -220 GREASE

NP4562L																			
CAT NO	SPM4408TR-4	**SPEC NO.**	A44-5011-6739	**I.P.**	55														
HP	250	**AMPS**	280	**VOLTS**	460	**DESIGN**	A												
FRAME SIZE	L449T	**RPM**	1790	**MAX RPM**	2700	**HZ**	60	**AMB**	40	**C**									
D.E. BRG.	110RU02M30X	**PH.3**	3	**DUTY**	CONT	**INSUL.CLASS**	H												
O.D.E. BRG.	90BC03J30X	**TYPE P**	P	**ENCL**	TEFC	**SF**	1.15	**CODE**	J										
POWER FACTOR	86	**MAX CORR KVAR**	50.8	**NEMA NOM EFFICIENCY**	96.5	**MOTOR WEIGHT**		**LBS**											
CL.I,DIV 2,GRP:	**A,B,C,D**	**T.CODE**	T3	**CL.1,ZONE 2,GRP:**	**IIA,IIB,IIC**	**T=**	200	**C**	**INVERTER T.CODE**	T3									
CL.II,DIV 2,GRP:	**F,G**	**T.CODE**	T3C	**CL II ZONE 22 GRPS IIIB**	**T=**	160	**C**	**INVERTER T.CODE**	T3C										
ID LOGO	**INV TYPE:**	**VPWM**	**CT**	30	**TO**	60	**VT**	3	**TO**	60	**CHP**	60	**TO**	90					
ID LOGO	**1.0 SF VPWM**	**WK2**	116	**LBFT2**	**SL HZ**	0.3	**MAG CUR**	99											
SER.NO.		**MEETS INTENT OF IEEE-45**		**FOR WEATHER PROTECTION**															

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	250	P	3/60	1790	460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
280	CONT	40/H	1.00	A	J	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
---	A44RC40176A00	---	---	.00944

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	92.7	1800	3.25	0
1/4	62.5	115	1797	53.9	94.6
2/4	125	160	1795	75.8	96.5
3/4	187	217	1792	83.6	96.7
4/4	250	280	1789	86.6	96.6
5/4	312	345	1787	88.0	96.3

SPEED TORQUE

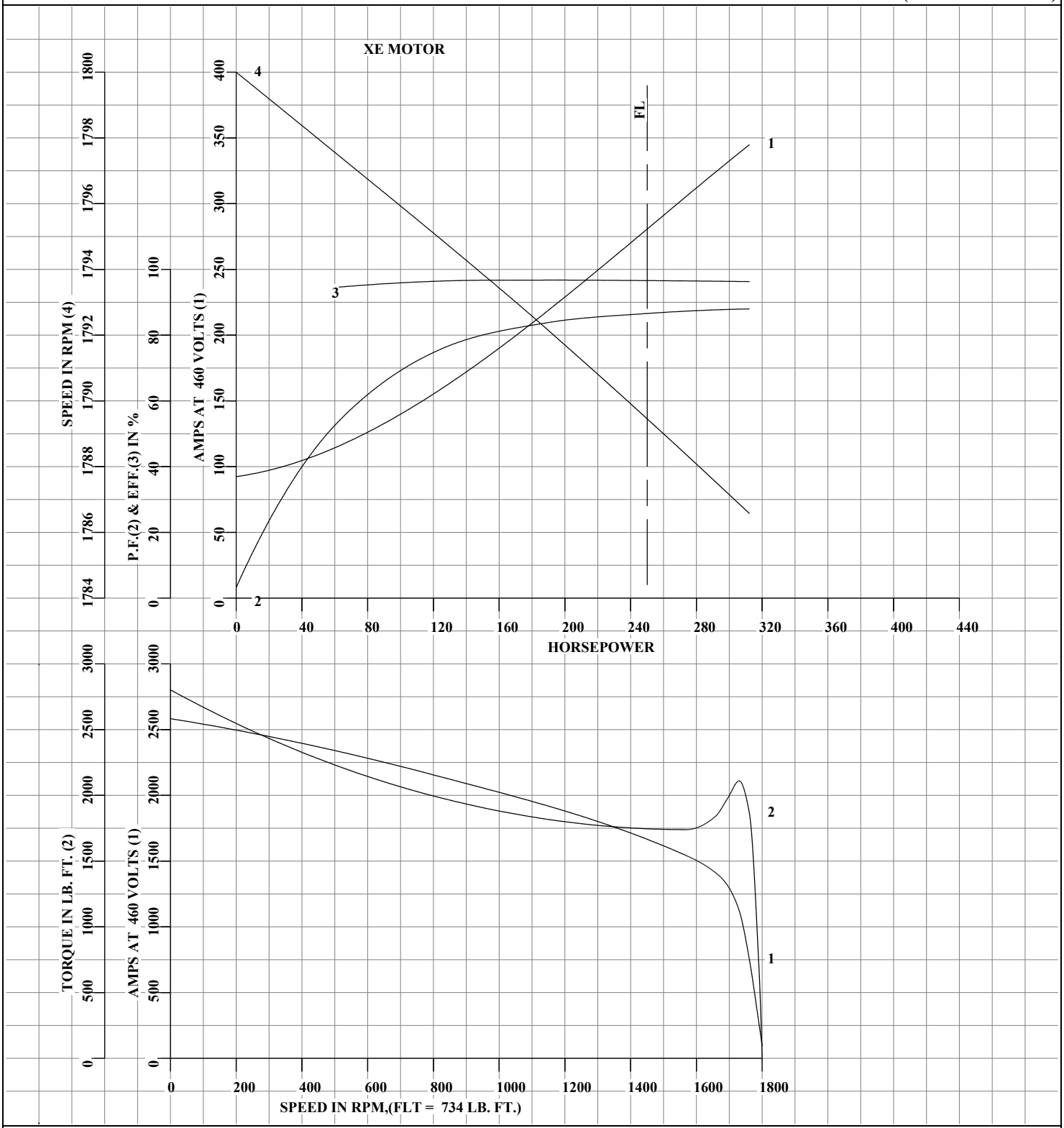
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	382	2802	2583
PULL UP	1570	237	1739	1541
BREAKDOWN	1730	287	2110	1121
FULL LOAD	1789	100	734	280

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. 96.5 PCT.

ABB	DRAWN BY: J. P. TSAO CHECKED BY: W.L.SMITH APPROVED BY: W.L.SMITH DATE: 08/21/25	AC MOTOR PERFORMANCE DATA	A44WG6739-R002 DATE ISSUED 08/21/25

FRAME 449T	RPM 1790	S.F. 1.00	ROTOR A44RC40176A00
HP 250	VOLTS 460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
TYPE P	AMPS 280	CODE LETTER J	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .00944
	AMB °C / INSUL 40/H	E/S ---	OHMS (BETWEEN LINES)



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

ABB	DRAWN BY: J. P. TSAO CHECKED BY: W.L.SMITH APPROVED BY: W.L.SMITH DATE: 08/21/25	AC MOTOR PERFORMANCE DATA	A44WG6739-R002 ISSUE DATE 08/21/25

DUTY MASTER ALTERNATING CURRENT MOTORS

617439-178

ENCLOSURE: TOTALLY ENCLOSED

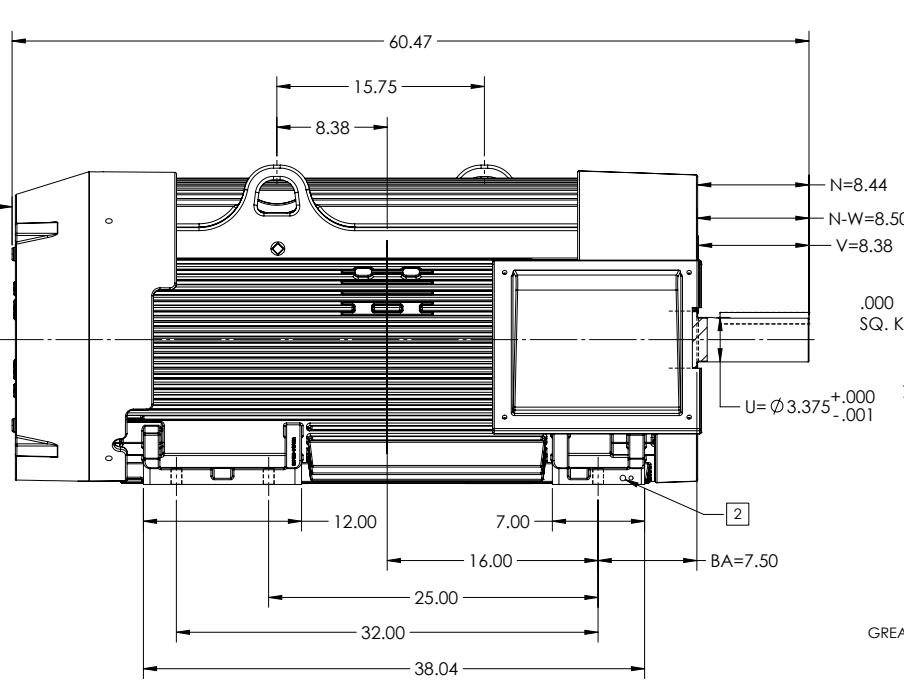
SQUIRREL-CAGE INDUCTION

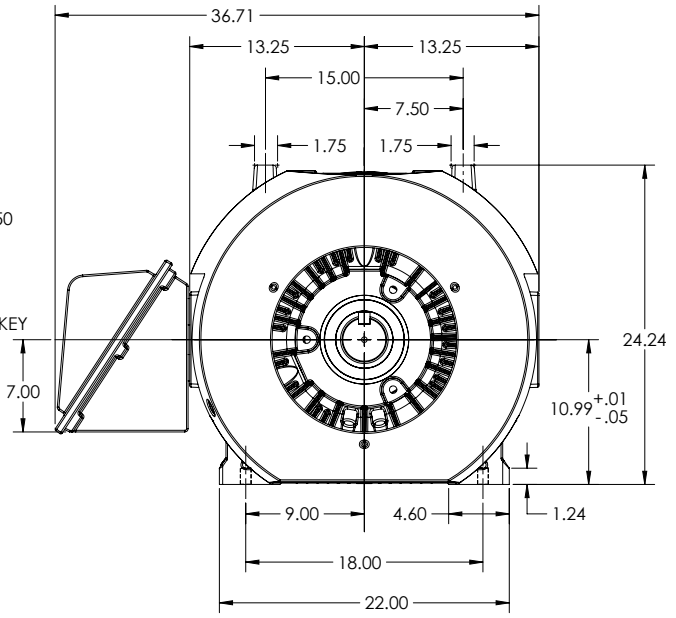
COOLING: FAN COOLED

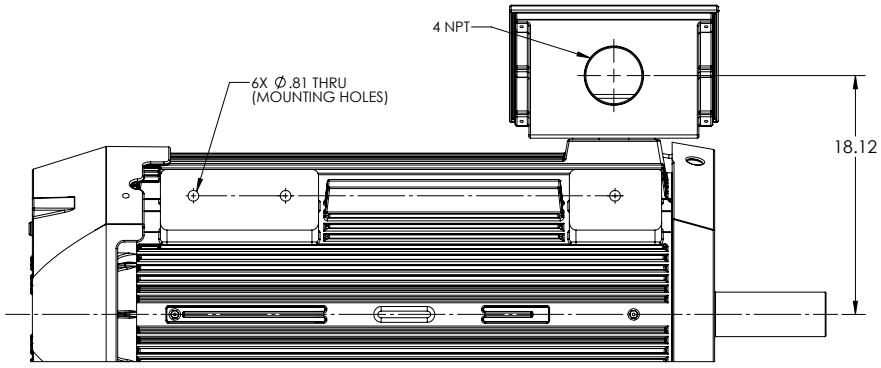
MOUNTING: FOOT, F-1 SIDE

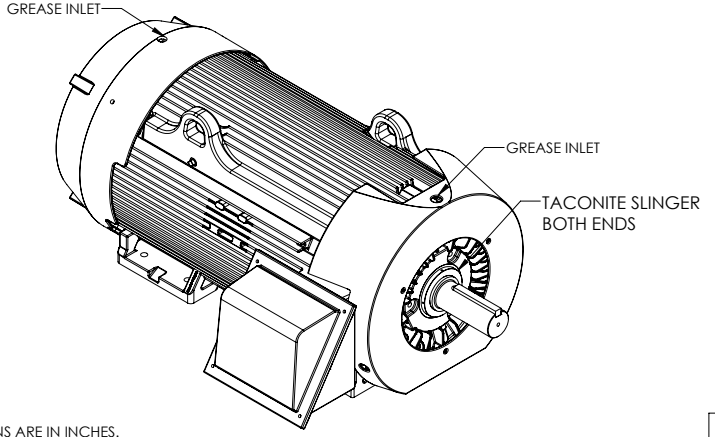
GL449T/G449T FRAME MOUNTING HOLES
WITH TACONITE SLINGERS

ENCLOSURE ENHANCEMENT: SEVERE DUTY









1 OBSTUCTIONS MUST NOT ENCROACH ON AIR INLET.

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

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.
WEIGHT (LBS.) 3045, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 1

617439-178

REV. DESC: UPDATE SHAFT DIMENSIONS			
REV: A	VERSION: 01	REVISED: 10:58:47 11/25/2024	TDR: 000001245256
MODEL NO. 617439-178			
BY: USJOSUL			C

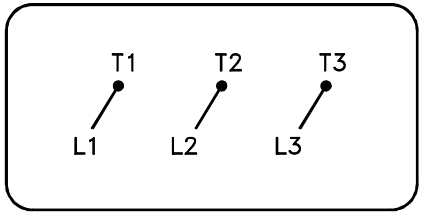
BALDOR

GL449T TEFC F1 FT SIDE CI BOX ROLLER BRG DIV 2 CL 2 AIR DEF

617439-178

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