ABB BALDOR RELIANCE

Customer information packet

SPM4409T-4

100HP, 1195RPM, 3PH, 60HZ, 447T, A44112M, TEFC
Class - CLI GP A,B,C,D; CLII GP F,G
Division - Division II

7/8/2026 10:40:24 PM

Specifications

Enclosure	TEFC
Frame	447T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	125.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	125.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	6 @ 2 AWG

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG0698
Layout	617439-175
Eff. date	01-22-2025
CD Diagram	416820-036
Poles	06
Leads	3#2 (02 per group)
Proprietary	False
Created date	08-27-2024

Motor Standards	NEMA
Motor Type	A44112M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	48.46 IN
Power Factor	78
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	1195 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL POLYREX EM

NP4562L

CAT NO	SPM4409T-4			**SPEC NO.**	A44-5011-0698				**I.P.**	55								
HP	100	**AMPS**	125		**VOLTS**	460			**DESIGN**	B								
FRAME SIZE	447T	**RPM**	1195		**MAX RPM**	1800	**HZ**	60	**AMB**	40								
D.E. BRG.	90BC03J30X			**PH.3**	3	**DUTY**	CONT				**INSUL.CLASS**	H						
O.D.E. BRG.	90BC03J30X				**TYPE P**	P	**ENCL**	TEFC	**SF**	1.15	**CODE**	K						
POWER FACTOR	78		**MAX CORR KVAR**	36				**NEMA NOM EFFICIENCY**	95.8				**MOTOR WEIGHT**		**LBS**			
CL.I,DIV 2,GRP:	**A,B,C,D**	**T.CODE**	T3C			**CL.1,ZONE 2,GRP:**			**IIA,IIB,IIC**	**T=**	160	**INVERTER T.CODE**	T3					
CL.II,DIV 2,GRP:	**F,G**	**T.CODE**	T3C			**CL II ZONE 22 GRPS IIIB**			**T=**	160	**INVERTER T.CODE**	T3C						
ID LOGO	**INV TYPE:**	**VPWM**	**CT**	6	**TO**	60	**VT**	3	**TO**	60	**CHP**	60	**TO**	90				
ID LOGO	**1.0 SF VPWM**	**WK2**	101.55		**LBFT2**		**SL HZ**	0.41	**MAG CUR**	53.4								
SER.NO.					**MEETS INTENT OF IEEE-45**				**FOR WEATHER PROTECTION**									

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	100	P	3/60	1195	460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
125	CONT	40/F	1.15	A	K	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
-	418143080NE	---	---	.0282

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	53.4	1200	3.86	0
1/4	25.0	62.7	1199	40.8	91.5
2/4	50.0	79.4	1197	62.2	94.8
3/4	75.0	101	1196	72.6	95.7
4/4	100	125	1194	78.0	95.9
5/4	125	150	1192	81.4	95.8

SPEED TORQUE

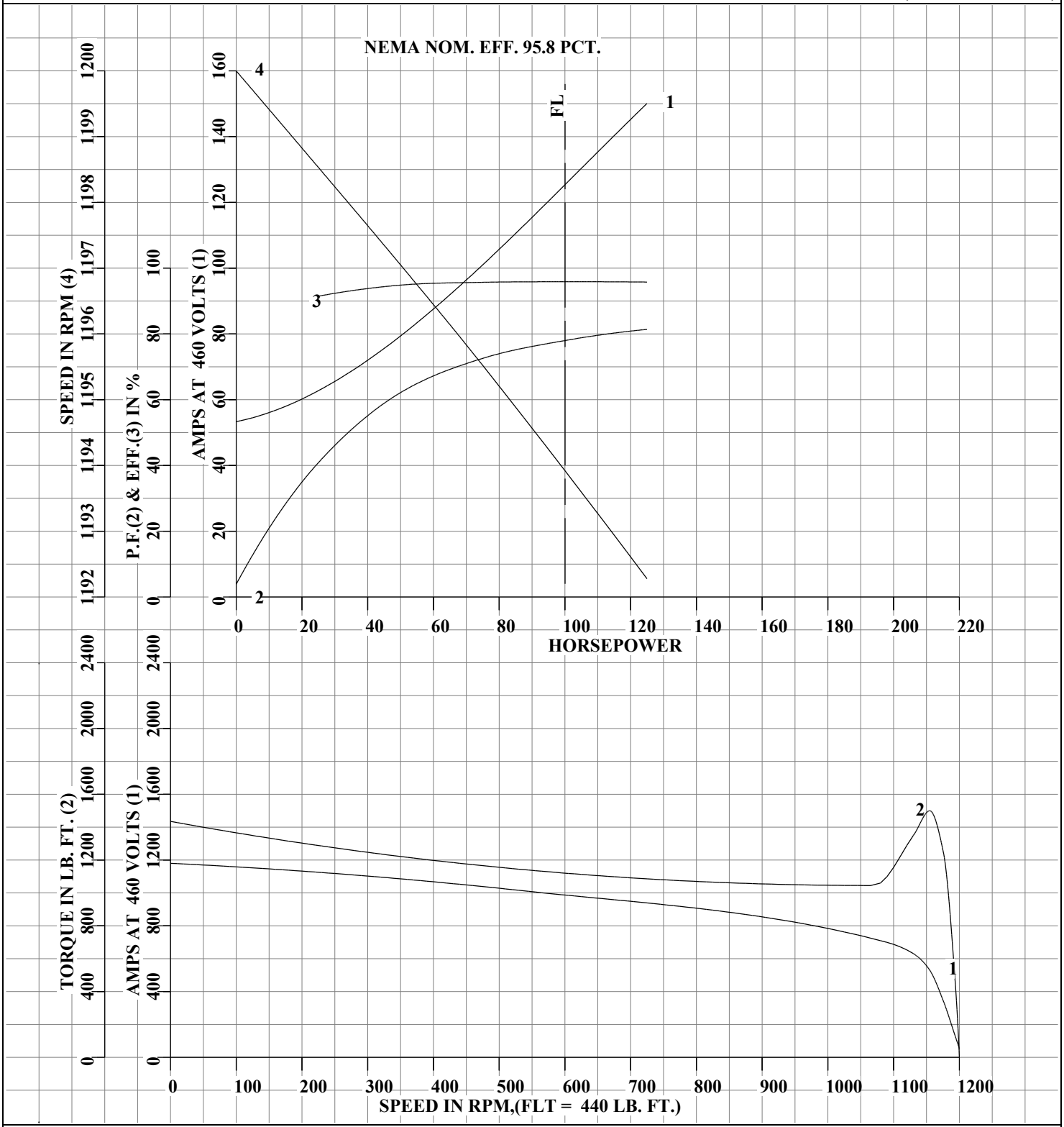
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	326	1435	1180
PULL UP	1070	238	1045	720
BREAKDOWN	1155	341	1500	530
FULL LOAD	1194	100	440	125

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

CALCULATED DATA
NEMA NOM. EFF. 95.8 PCT.

ABB	DRAWN BY: W. L. SMITH CHECKED BY: C.E.JAMISON APPROVED BY: W. L. SMITH DATE: 11/20/24	AC MOTOR PERFORMANCE DATA	A44WG0698-R002 DATE ISSUED 11/20/24

FRAME 445T	RPM 1195	S.F. 1.15	ROTOR 418143080NE
HP 100	VOLTS 460	NEMA DESIGN A	TEST S.O. CALCULATED DATA
TYPE P	AMPS 125	CODE LETTER K	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0282
	AMB °C / INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



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SHEET NUMBER 1 OF 1

DUTY MASTER ALTERNATING CURRENT MOTORS

617439-175

ENCLOSURE: TOTALLY ENCLOSED

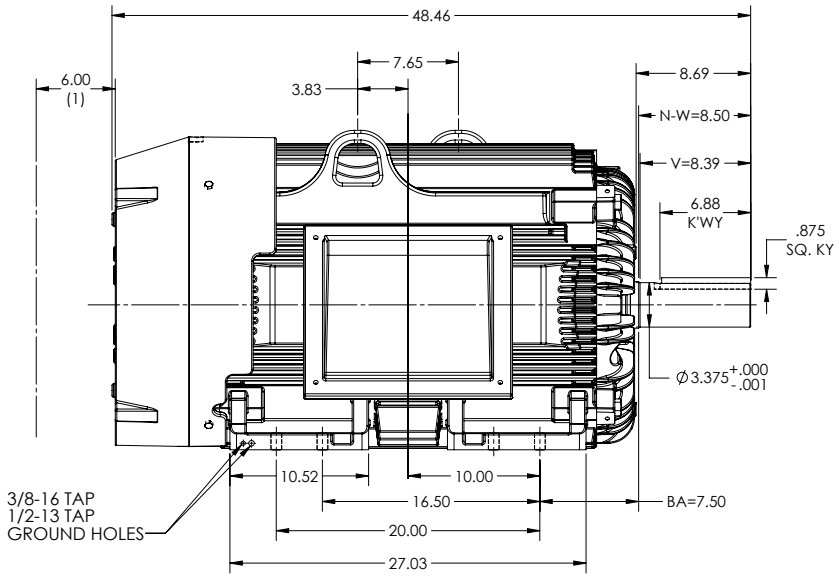
SQUIRREL-CAGE INDUCTION

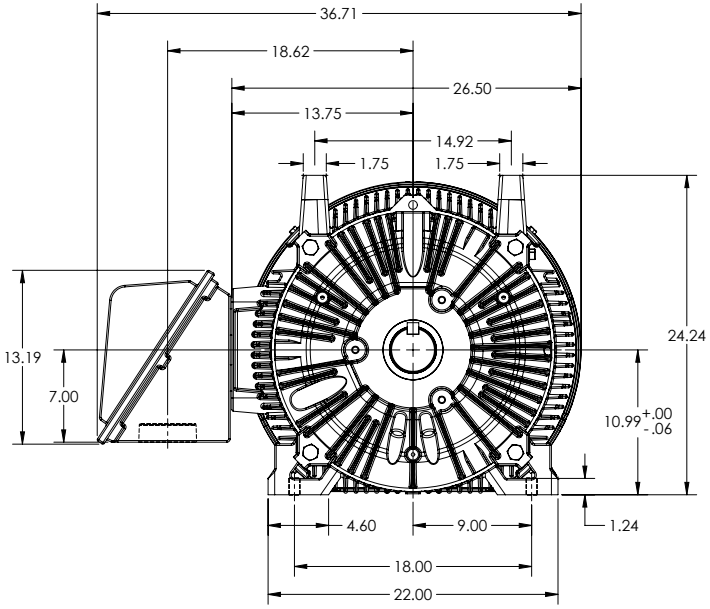
COOLING: FAN COOLED

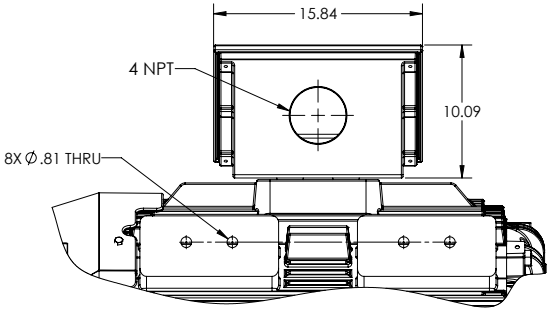
MOUNTING: FOOT, F-1

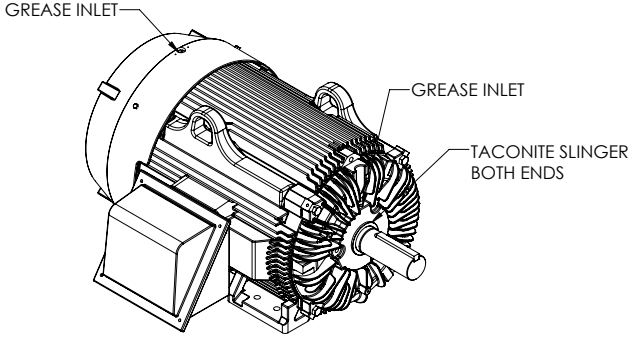
FRAME G447T
INCLUDES G445T FRAME MOUNTING HOLES
WITH TACONITE SLINGERS

ENCLOSURE ENHANCEMENT: SEVERE DUTY









WEIGHT (LBS): 2515 - MAY VARY BY 15% DEPENDING ON RATING

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

(1) OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

REV. DESC: NEW			
REV: -	VERSION: 00	REVISED: 11:49:01 10/11/2023	TDR: 000001213524
MODEL NO. 617439-175			REF:
BY: ENSTEK0	Material:		C

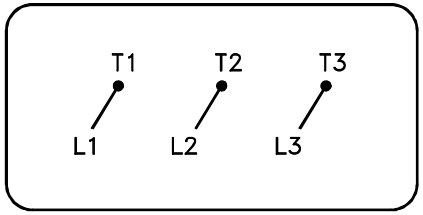
BALDOR

G447/445T TEFC F1 FT CAST IRON BOX DIV 2 CL 2

617439-175

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