



Customer information packet

SPM4406TS-4

150HP, 1790RPM, 3PH, 60HZ, 447TS, A4496M, TEFC

PFC EQUIPMENT INC

Class - CLI GP A,B,C,D; CLII GP F,G

Division - Division II

Specifications

Enclosure	TEFC
Frame	447TS
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	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	170.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	170.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	H
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA

Part detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG6732
Layout	617439-174
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	04
Leads	3#1
Proprietary	False
Created date	03-22-2024

Motor Type	A4496M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.58 IN
Power Factor	85
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 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 - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP4562L

CAT NO	SPM4406TS-4		SPEC NO.		A44-5012-6732			I.P.		55						
HP	150	AMPS	170		VOLTS		460		DESIGN		A					
FRAME SIZE	447TS		RPM	1790		MAX RPM		2700	HZ	60	AMB	40			°C	
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	H				
POWER FACTOR	85		MAX CORR KVAR		33.5		NEMA NOM EFFICIENCY				96.2		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	°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		T3	
ID LOGO	INV TYPE:		VPWM	CT	30	TO	60	VT	3	TO	60	CHP	60	TO	90	
ID LOGO	1.0 SF VPWM		WK2	63.4		LBFT2		SL HZ	0.3		MAG CUR		67			
SER.NO.				MEETS INTENT OF IEEE-45					FOR WEATHER PROTECTION							

Parts list

Part number	Description	Quantity
SA424023	SA A44-5012-6732	1.000 ea
RA416079	RA A44-5012-6732	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP4562L	SS,SUPER PREM,CL.II DIV 2,MAIN,NEMA PREM	1.000 ea
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	2.000 ea
034690005AB	PPLG 3/4 PLATED	1.000 ea
089490099AA	G28 BRKT 089490098WCA	1.000 ea
415072001B	CLAMP	1.000 ea
083199082A	G28 FAN COVER MACHINING SHORT VERSION	1.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
078557001E	FAN 440 078557001F	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
415044053AX	SLINGER,DE 6318 G440	1.000 ea
410700004A	WSHR	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
034017014AB	LCKW 3/8 STD. PLATED	4.000 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
032620016KB	HSRSS; 1/4X1/2	2.000 ea
032620016KB	HSRSS; 1/4X1/2	2.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034530036BB	P/NIP 1/4X4-1/2 GALV.	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea

035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089490099AA	G28 BRKT 089490098WCA	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
415044053AX	SLINGER,DE 6318 G440	1.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
034530036AB	P/NIP 1/8 X4-1/2 Yellow Zinc46114-BM	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
076870000BA	CONDUIT BOX - 440 - 1/2-13 GROUND	1.000 ea
406056007A	GASKET, 440	1.000 ea
076864000A	CBCST BLKT - 440	1.000 ea
067053014A	GASK 440	1.000 ea
032018008BK	HHCS 5/16-18X1L PLATED	4.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 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
MG1050Y01	CELEROL BALDOR GOLD *** NLA IN 5 GALLON	0.440 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180024HA	KEY 5/8X5/8X3 L	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
032510024D	CARRIAGE BOLT - 444	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
LB1636	LABEL, SUPER PREMIUM SP4, 1.75 X 1.75	1.000 ea

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

FRAME G447TS ABOVE NEMA RATINGS

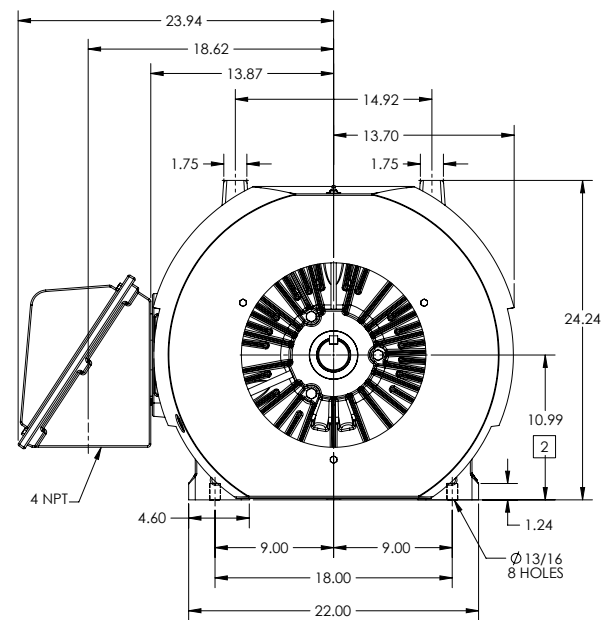
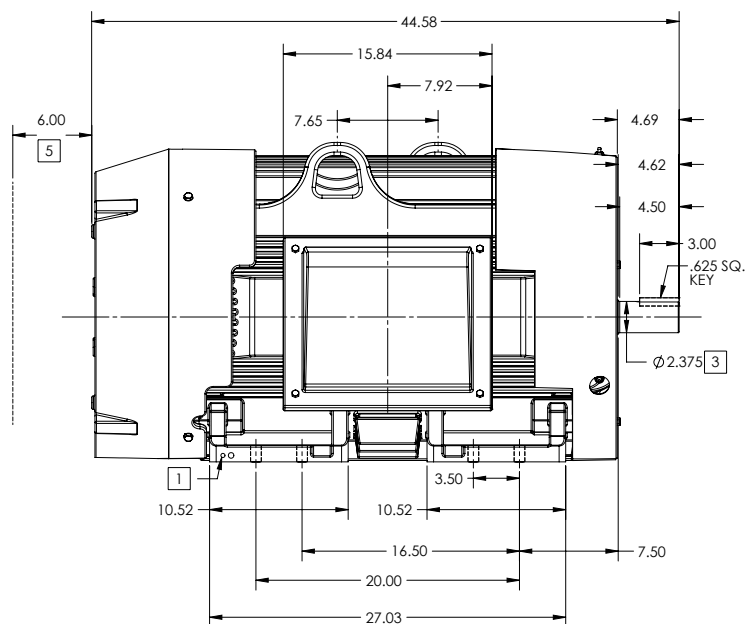
COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445TS FRAME MOUNTING HOLES

ENCLOSURE ENHANCEMENT: SEVERE DUTY

WITH TACONITE SLINGERS



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00-.06
3. VARIES +.000-.001
4. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NOT ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
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. TO 5 INCH DIA.

4 WEIGHT (LBS): 2480

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

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

SHEET NUMBER
1 OF 2

FL11-657L19

REV. DESC: NEW	VERSION: 00	REVISED: 11-26-41 10/31/2023	TDR: 000001219171
MODEL NO. 617439-174	REF:		
BY: ENSTEKO	Material:		

BALDOR

G447TS/445TS TEFC F1 FT CAST IRON BOX DIV 2 CL 2 AIR DEF

617439-174

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

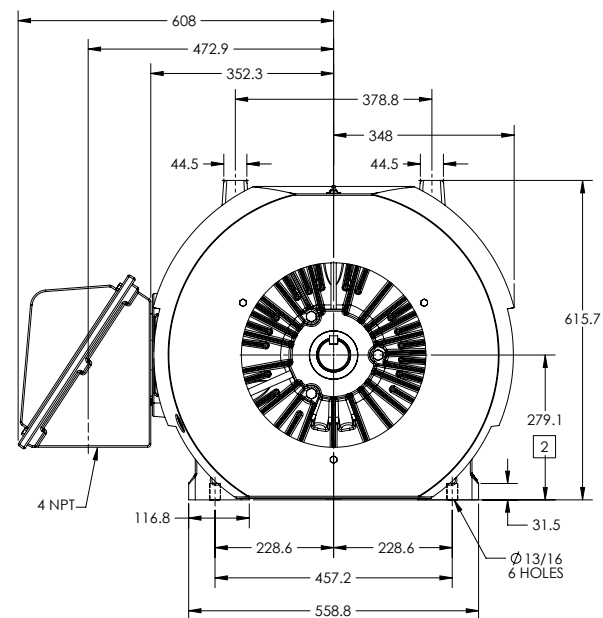
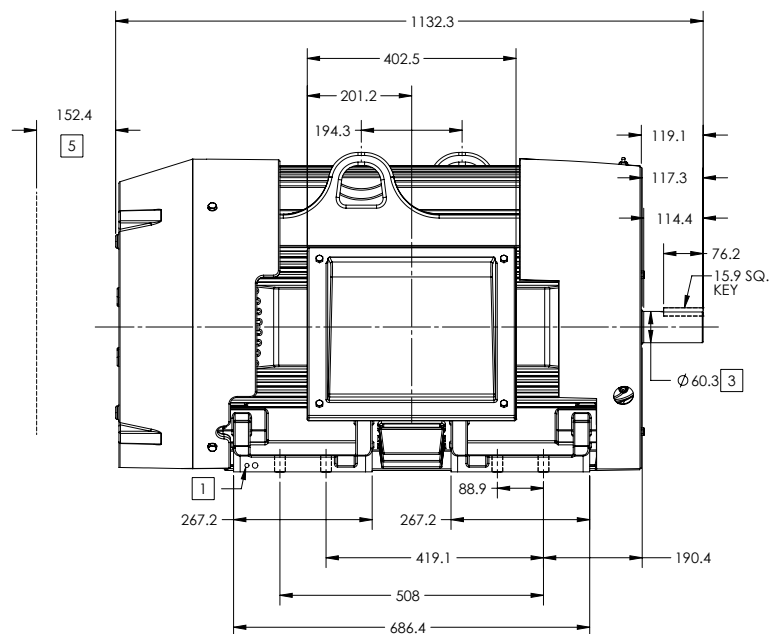
FRAME G447TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES G445TS FRAME MOUNTING HOLES
WITH TACONITE SLINGERS

ENCLOSURE ENHANCEMENT: SEVERE DUTY



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
5. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

4 WEIGHT (KGS): 1125

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

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

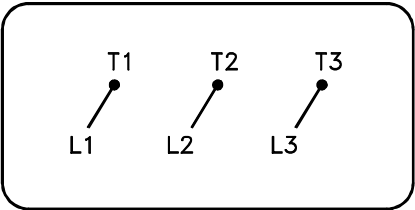
REV. DESC: NEW			
REV: 0	VERSION: 00	REVISED: 11:26:41 10/31/2023	TDR: 000001219171
MODEL NO. 617439-174			REF:
BY: ENSTEK0		Material:	

BALDOR

G447TS/445TS TEFC F1 FT CAST IRON BOX DIV 2 CL 2 AIR DEF

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