



Customer information packet

SPM4402T-4

100HP, 3580RPM, 3PH, 60HZ, 405TS, A4072M, TEFC

PFC EQUIPMENT INC

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

Division - Division II

Specifications

Enclosure	TEFC
Frame	405TS
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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM CCSA US
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
Insulation Class	F
Inverter Code	Inverter Duty
Lifting Lugs	Standard Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA

Part detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG5798
Layout	617437-218
Eff. date	10-07-2024
CD Diagram	416820-036
Poles	02
Leads	3#4
Proprietary	False
Created date	09-29-2023

Motor Type	A4072M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.19 IN
Power Factor	85
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3580 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	SPM4402T-4		SPEC NO.		A40-5001-5798		I.P.		55					
HP	100	AMPS	113		VOLTS	460		DESIGN	A					
FRAME SIZE	405TS	RPM	3575		MAX RPM		HZ	60	AMB	40 °C				
D.E. BRG.	80BC03J30X		PH.3	3	DUTY	CONT		INSUL.CLASS		F				
O.D.E. BRG.	80BC03J30X		TYPE P		P	ENCL	TEFC	SF	1.15	CODE K				
POWER FACTOR	87	MAX CORR KVAR		22.3		NEMA NOM EFFICIENCY			95	MOTOR WEIGHT 1342 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	15	TO	60	VT	3	TO	60	CHP	60	TO	75
ID LOGO	1.0 SF VPWM		WK2	16	LBFT2		SL HZ				MAG CUR		36.8	
SER.NO.			MEETS INTENT OF IEEE-45					FOR WEATHER PROTECTION						

Parts list

Part number	Description	Quantity
SA422822	SA A40-5001-5798	1.000 ea
RA414829	RA A40-5001-5798	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
089413501D	G400 MCHG 6313 FT MNT BRKT W/ TACONITE	1.000 ea
415072001B	CLAMP	1.000 ea
083198101A	G400 STD FAN COVER MACHINING	1.000 ea
034180008DA	KEY 1/4X1/4X1 L (shipping)	1.000 ea
078550001H	FAN KB 120/60 360	1.000 ea
004824015A	GREASE POLYREX EM	0.880 lb
032018020EK	HHCS 5/8-11X2-1/2 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415044052AX	SLINGER,DE 6313 G400	1.000 ea
410700004F	WSHR	1.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034530060BB	1/4 X 7 1/2 PP NIPPLE	1.000 ea
032620016JB	HSRSS #10-24X1/2 PLTD	2.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
089413501D	G400 MCHG 6313 FT MNT BRKT W/ TACONITE	1.000 ea
032018020EK	HHCS 5/8-11X2-1/2 PLTD.	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea

415044052AX	SLINGER,DE 6313 G400	1.000 ea
032620016JB	HSRSS #10-24X1/2 PLTED	2.000 ea
034530040AB	P/NIP 1/8X5 GALV.	1.000 ea
034530040BB	P/NIP 1/4X5	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
076708000BB	CONDUIT BOX-360	1.000 ea
065776000C	GASKET,MAIN CBOX, 320-400	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
067053000B	GASK 320-400	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *** NLA IN 5 GALLON	0.375 ga
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
034180022GA	KEY 1/2X1/2X2-3/4 L	1.000 ea
604797045	STD. 400 FRAME SKID	1.000 ea
032510024D	CARRIAGE BOLT - 444	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
LB1636	LABEL, SUPER PREMIUM SP4, 1.75 X 1.75	1.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

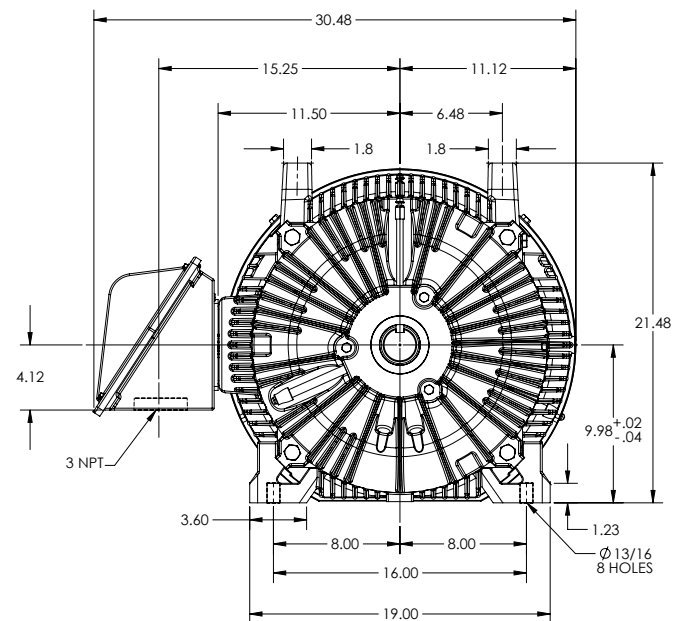
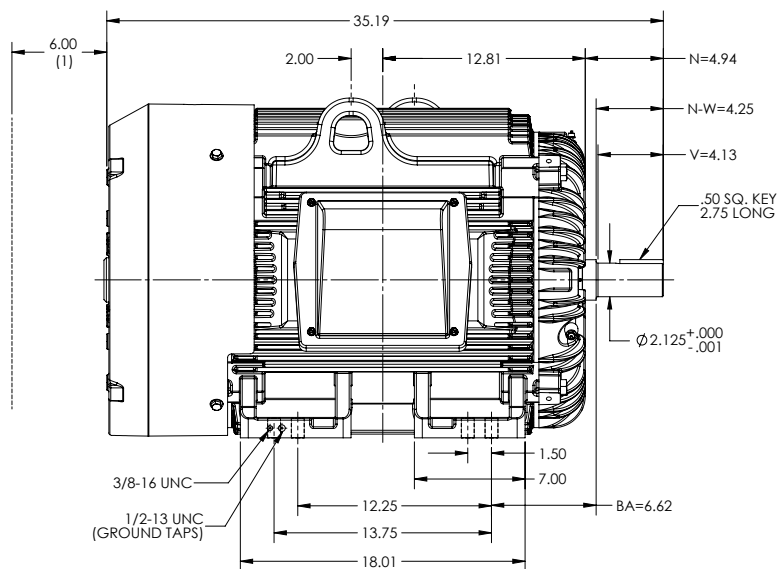
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F1

FRAME G405T/G404T FRAME MOUNTING HOLES
STD CAST IRON C/BOX
XP BRATHER DRAIN
TACONITE SLINGERS

COOLING: FAN COOLED

ECP SEVERE DUTY



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.DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS
MOTOR WEIGHT 1375 LBS. MAY VARY BY 15% DEPENDING ON RATING
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.SHEET NUMBER
1 OF 2

812-137219

REV. DESC: NEW	VERSION: 00	REVISED: 03-30-11/07/2023	TDR: 000001213524
MODEL NO. 617437-218	REF:		
BY: ENFRAJ	Material:		

BALDOR

HORZ G405TS/404TS TEFC ECP DRV 2, CL 2

617437-218

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F1

FRAME G405T/G404T FRAME MOUNTING HOLES

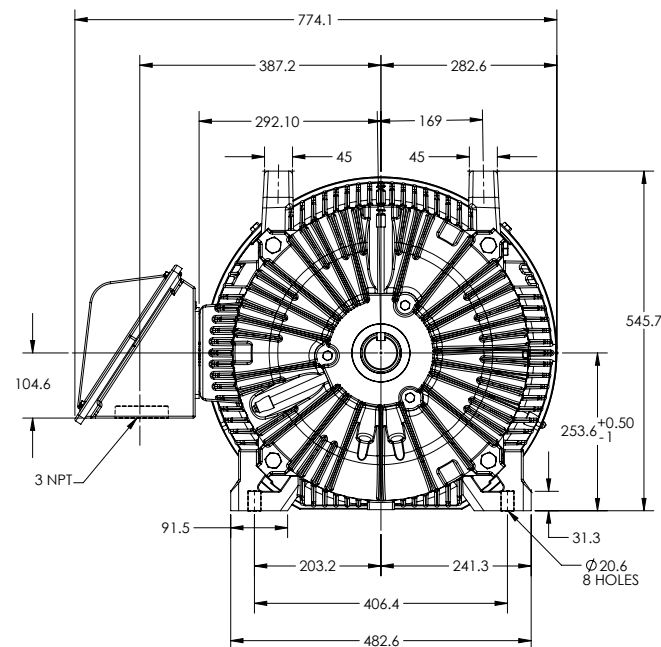
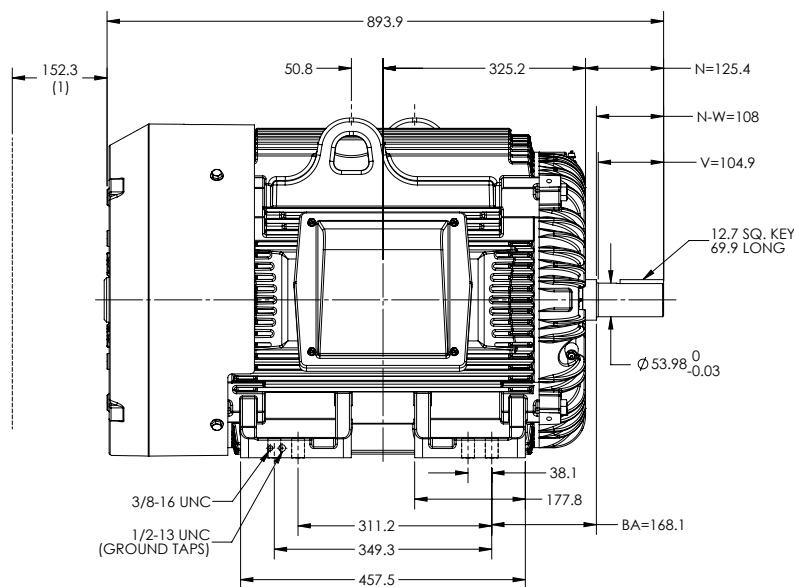
STD CAST IRON C/BOX

XP BRATHER DRAIN

TACONITE SLINGERS

COOLING: FAN COOLED

ECP SEVERE DUTY



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 .08 MM T.I.R.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES
MOTOR WEIGHT 624 KGS, MAY VARY BY 15% DEPENDING ON RATING

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

REV. DESC: NEW			
REV: 0	VERSION: 00	REVISED: 03-36-30 11/07/2023	TDR: 00000121352
MODEL NO. 617437-218			REF:
BY: ENFRAJ0		Material:	

BALDOR

HOBZ G405TS/404TS TEFC ECP DIV.2, CL.2

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