ABB BALDOR RELIANCE

Customer information packet

SPM4400TS-4

100HP, 1790RPM, 3PH, 60HZ, 405TS, A4076M, TEFC
Class - CLI GP A,B,C,D; CLII GP F,G
Division - Division II

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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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	115.000 A @ 460.0 V
Design Code	B
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	115.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG5789
Layout	617437-218
Eff. date	08-28-2025
CD Diagram	416820-036
Poles	04
Leads	3#2
Proprietary	False
Created date	10-04-2023

Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A4076M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	35.19 IN
Power Factor	83
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	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	SPM4400TS-4		**SPEC NO.**	A40-5002-5789			**I.P.**	55												
HP	100	**AMPS**	115		**VOLTS**	460		**DESIGN**	A											
FRAME SIZE	405TS	**RPM**	1790		**MAX RPM**	2700	**HZ**	60	**AMB**	40	**C**									
D.E. BRG.	80BC03J30X		**PH.3**	3	**DUTY**	CONT			**INSUL.CLASS**	H										
O.D.E. BRG.	80BC03J30X			**TYPE P**	P	**ENCL**	TEFC	**SF**	1.15	**CODE**	H									
POWER FACTOR	83		**MAX CORR KVAR**	26.1				**NEMA NOM EFFICIENCY**	96.2			**MOTOR WEIGHT**		**LBS**						
CL.I,DIV 2,GRP:	**A,B,C,D**	**T.CODE**	T3A			**CL.1,ZONE 2,GRP:**			**IIA,IIB,IIC**	**T=**	180	**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**	90						
ID LOGO	**1.0 SF VPWM**	**WK2**	28.17		**LBFT2**		**SL HZ**	0.3		**MAG CUR**	42									
SER.NO.				**MEETS INTENT OF IEEE-45**					**FOR WEATHER PROTECTION**											

617437-218

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

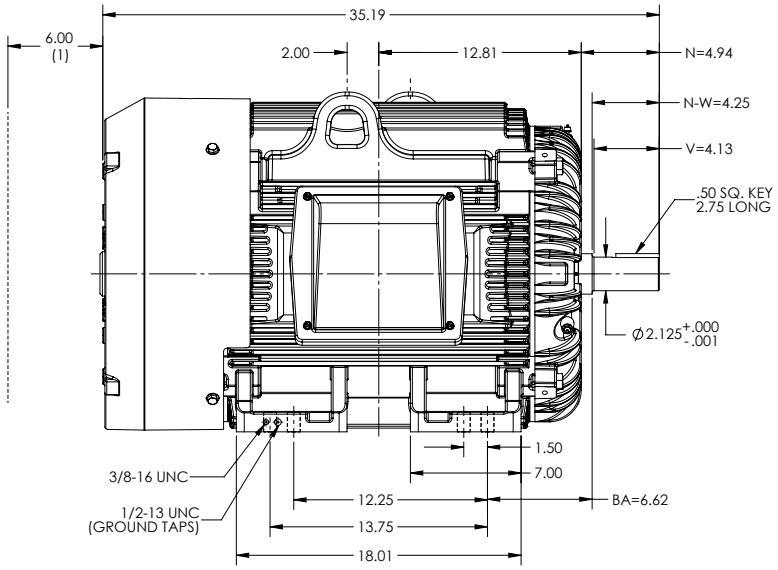
FRAME G405TS/G404TS FRAME MOUNTING HOLES
STD CAST IRON C/BOX
TACONITE SLINGERS

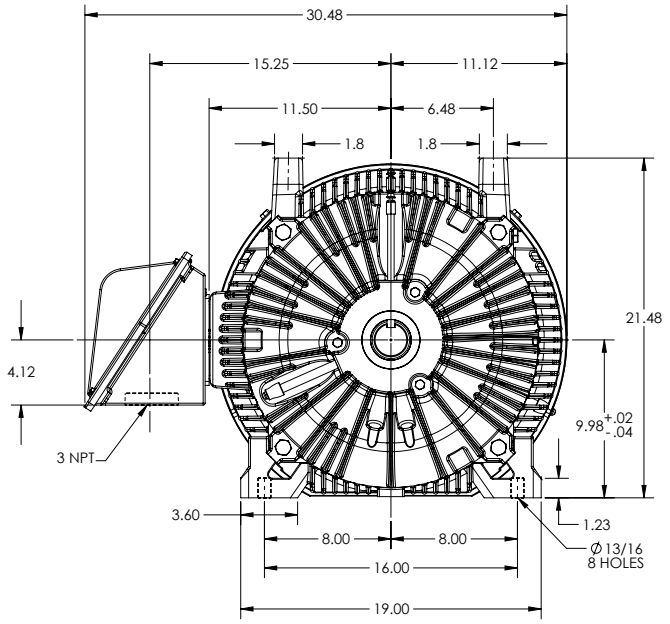
ENCLOSURE: TOTALLY ENCLOSED

COOLING: FAN COOLED

MOUNTING: FOOT, F1

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

617437-218

REV. DESC: REMOVE XP BREATHER DRAIN FROM BLOCK			
REV: B	VERSION: 02	REVISED: 08:22:44 01/14/2025	TDR: 000001248110
MODEL NO. 617437-218			REF:
BY: USALMAZ	Material:		C

BALDOR

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

617437-218

617437-218

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

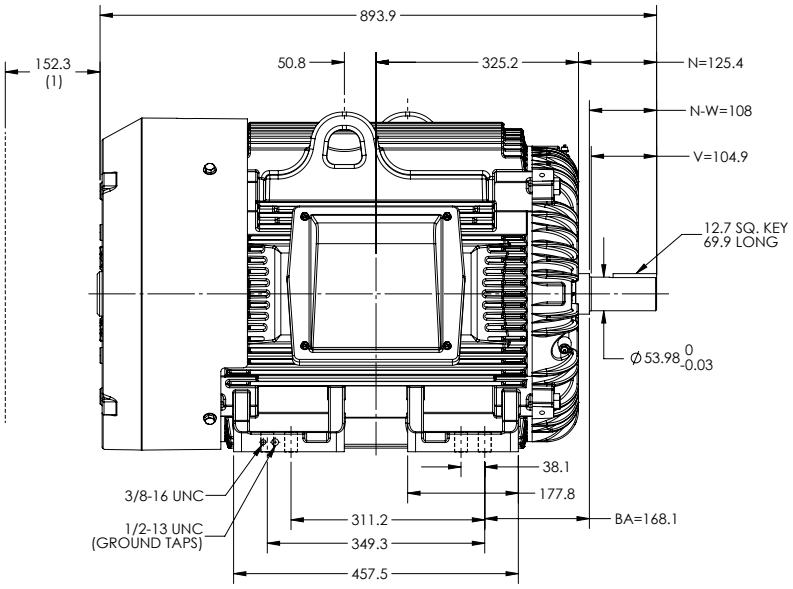
FRAME G405TS/G404TS FRAME MOUNTING HOLES
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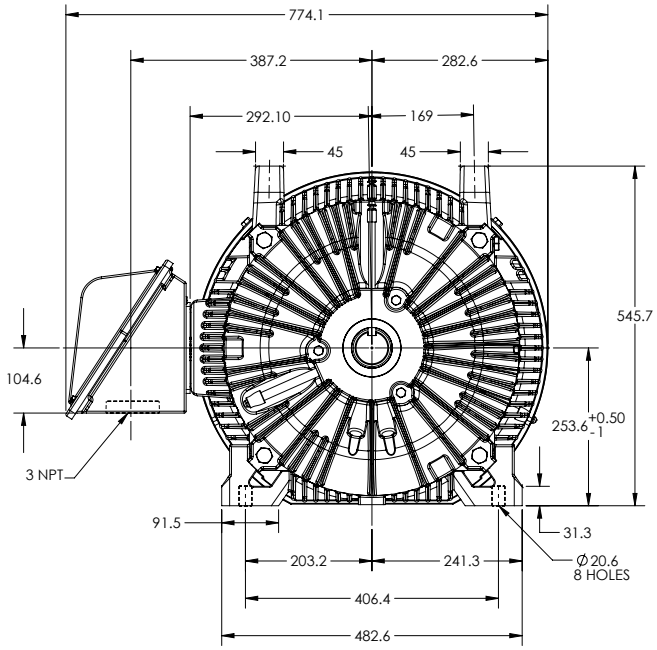
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F1

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.

SHEET NUMBER 2 OF 2

617437-218

REV. DESC: REMOVE XP BREATHER DRAIN FROM BLOCK			
REV: B	VERSION: 02	REVISED: 08:22:44 01/14/2025	TDR: 000001248110
MODEL NO. 617437-218			REF:
BY: USALMAZ	Material:	C	

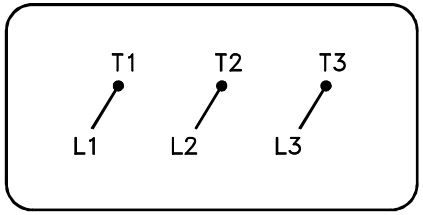
BALDOR

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

617437-218

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