ABB BALDOR RELIANCE

Customer information packet

SPM4312T-4

50HP, 1185RPM, 3PH, 60HZ, 365T, A3678M, TEFC, F
Class - CLI GP A,B,C,D; CLII GP F,G
Division - Division II

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11/13/2026 11:04:01 PM

Specifications

Enclosure	TEFC
Frame	365T
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	50.000 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 NEMA_PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	55.100 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	55.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Max Speed	1800 rpm

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG6602
Layout	617436-320
Eff. date	01-03-2025
CD Diagram	416820-036
Poles	06
Leads	3#4 Y
Proprietary	False
Created date	09-19-2023

Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3678M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.48 IN
Power Factor	89
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1185 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	SPM4312T-4		**SPEC NO.**	A36-0003-6602			**I.P.**	55											
HP	50	**AMPS**	55.1		**VOLTS**	460		**DESIGN**	A										
FRAME SIZE	365T	**RPM**	1185		**MAX RPM**	1800	**HZ**	60	**AMB**	40									
D.E. BRG.	65BC03J30X		**PH.3**	3	**DUTY**	CONT			**INSUL.CLASS**	F									
O.D.E. BRG.	65BC03J30X			**TYPE P**	P	**ENCL**	TEFC	**SF**	1.15	**CODE**	J								
POWER FACTOR	89		**MAX CORR KVAR**	7.11				**NEMA NOM EFFICIENCY**	95				**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**	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**	25.3		**LBFT2**		**SL HZ**	0.75			**MAG CUR**	21							
SER.NO.					**MEETS INTENT OF IEEE-45**						**FOR WEATHER PROTECTION**								

SHEET NUMBER 1 OF 1

DUTY MASTER ALTERNATING CURRENT MOTORS

617436-320

ENCLOSURE: TOTALLY ENCLOSED

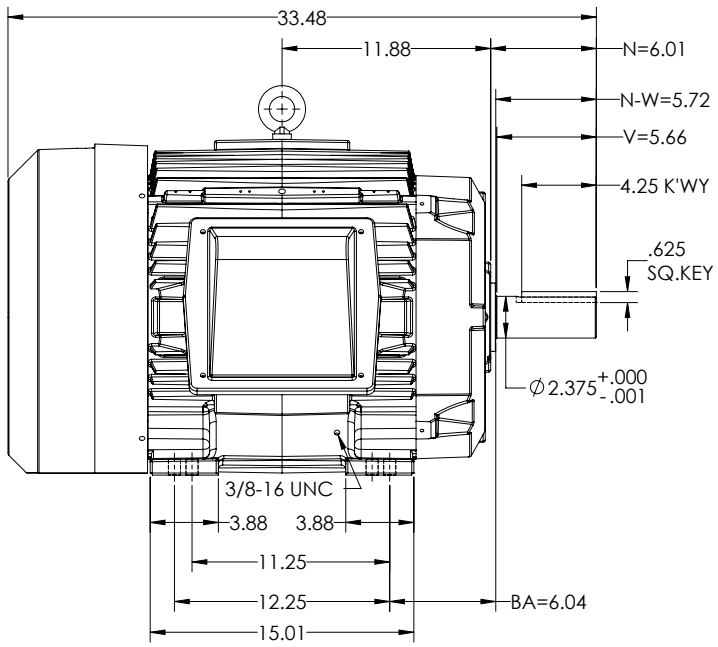
SQUIRREL-CAGE INDUCTION

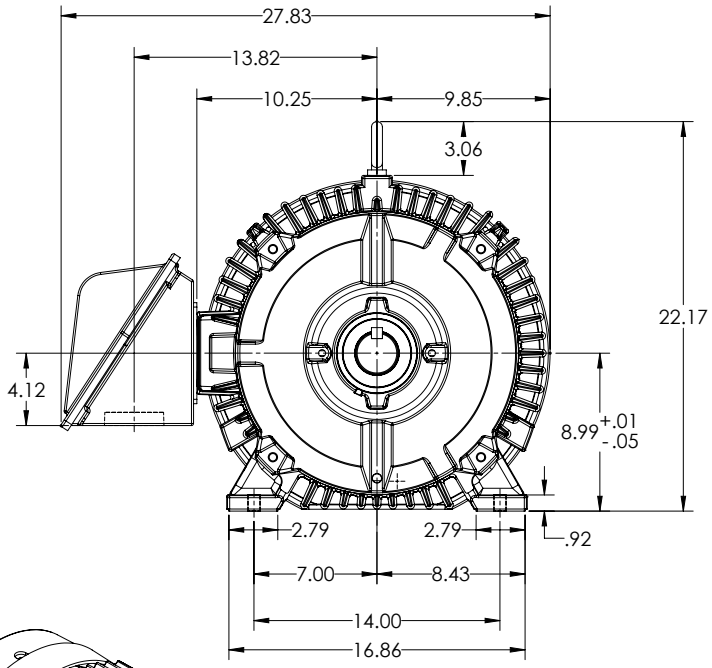
COOLING: FAN COOLED

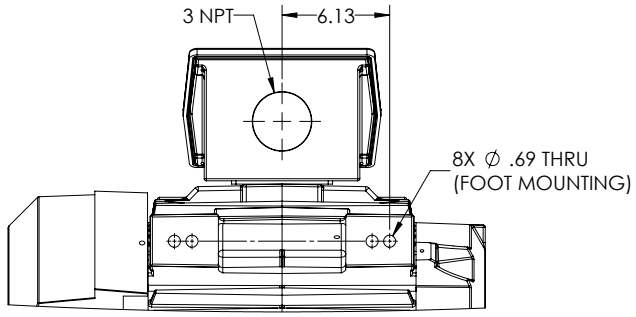
MOUNTING: FOOT, F-1

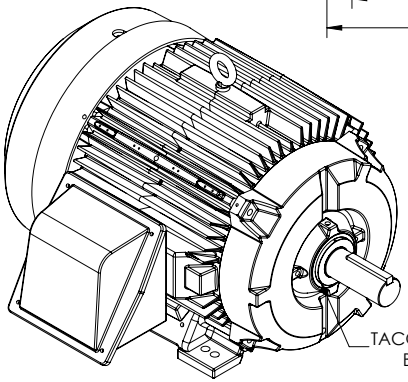
E364T/E365T FRAME MOUNTING HOLES

ENCLOSURE ENHANCEMENT: SEVERE DUTY









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

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.

REV. DESC: NEW LAYOUT			
REV: -	VERSION: 00	REVISED: 08:39:57 08/16/2019	TDR: 000001114775
MODEL NO. 617436-320			
BY: USTIREE			C

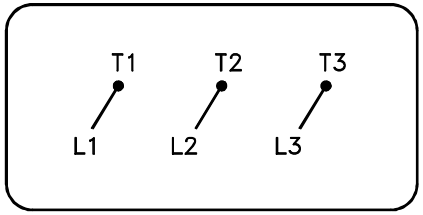
BALDOR

E364/365T TEFC F1 FOOT CI BOX/TACONITE SLINGERS FOR DIV2

617436-320

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