ABB BALDOR RELIANCE

Customer information packet

SPM4410TS-4

125HP, 1790RPM, 3PH, 60HZ, 444TS, A4480M, TEFC
Class - CLI GP A,B,C,D; CLII GP F,G
Division - Division II

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Specifications

Enclosure	TEFC
Frame	444TS
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	125.000 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
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	142.000 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	142.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG6731
Layout	617435-912
Eff. date	08-06-2026
CD Diagram	416820-036
Poles	04
Leads	3#2
Proprietary	False
Created date	03-21-2024

Motor Standards	NEMA
Motor Type	A4480M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	41.08 IN
Power Factor	86
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	SPM4410TS-4			**SPEC NO.**	A44-5012-6731				**I.P.**	55										
HP	125	**AMPS**	142		**VOLTS**	460			**DESIGN**	A										
FRAME SIZE	444TS	**RPM**	1790		**MAX RPM**	2700	**HZ**	60	**AMB**	40	**C**									
D.E. BRG.	90BC03J30X			**PH.3**	3	**DUTY**	CONT				**INSUL.CLASS**	F								
O.D.E. BRG.	90BC03J30X				**TYPE P**	P	**ENCL**	TEFC	**SF**	1.15	**CODE**	H								
POWER FACTOR	86		**MAX CORR KVAR**	25.8				**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**	T3C							
ID LOGO	**INV TYPE:**	**VPWM**	**CT**	30	**TO**	60	**VT**	3	**TO**	60	**CHP**	60	**TO**	90						
ID LOGO	**1.0 SF VPWM**	**WK2**	52.8		**LBFT2**		**SL HZ**	0.41		**MAG CUR**	44.3									
SER.NO.					**MEETS INTENT OF IEEE-45**				**FOR WEATHER PROTECTION**											

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	125	P	3/60	1790	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
-	A44RC4080A00	---	---	.0321

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	44.3	1800	4.39	0
1/4	31.3	56.5	1797	55.6	93.2
2/4	62.5	80.5	1794	75.9	95.7
3/4	93.7	109	1791	83.3	96.3
4/4	125	142	1788	85.8	96.2
5/4	156	175	1784	87.3	96.0

SPEED TORQUE

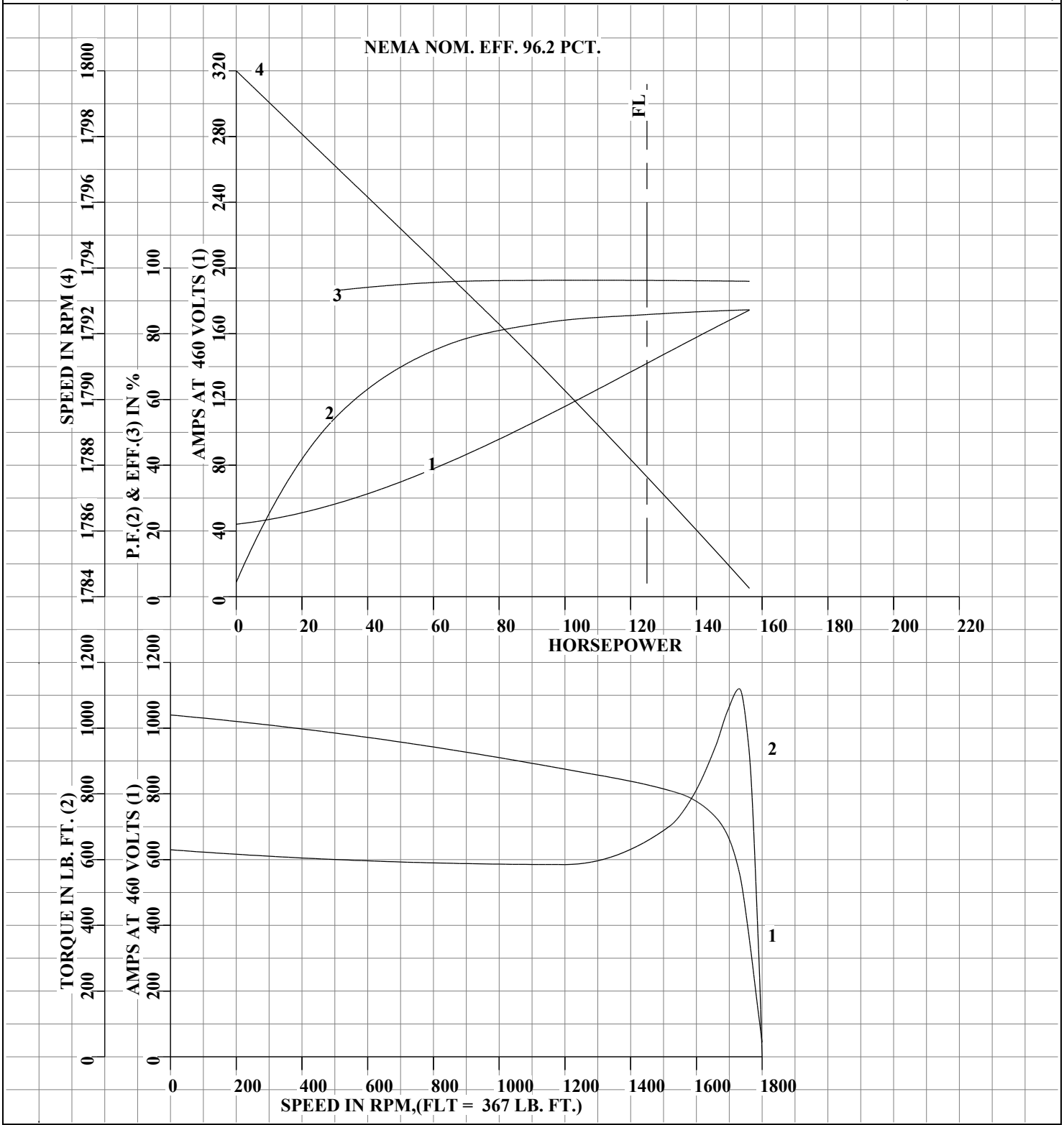
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	172	630	1040
PULL UP	1200	159	585	875
BREAKDOWN	1731	305	1120	560
FULL LOAD	1788	100	367	142

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. 96.2 PCT.

ABB	DRAWN BY: W. L. SMITH CHECKED BY: C.E.JAMISON APPROVED BY: W. L. SMITH DATE: 11/19/24	AC MOTOR PERFORMANCE DATA	A44WG6731-R002 DATE ISSUED 11/19/24

FRAME 445T	RPM 1790	S.F. 1.15	ROTOR A44RC4080A00
HP 125	VOLTS 460	NEMA DESIGN A	TEST S.O. CALCULATED DATA
TYPE P	AMPS 142	CODE LETTER H	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0321
	AMB °C / INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



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

ABB	DRAWN BY: W. L. SMITH CHECKED BY: C.E.JAMISON APPROVED BY: W. L. SMITH DATE: 11/19/24	AC MOTOR PERFORMANCE DATA	A44WG6731-R002 ISSUE DATE 11/19/24

DUTY MASTER ALTERNATING CURRENT MOTORS

617435-912

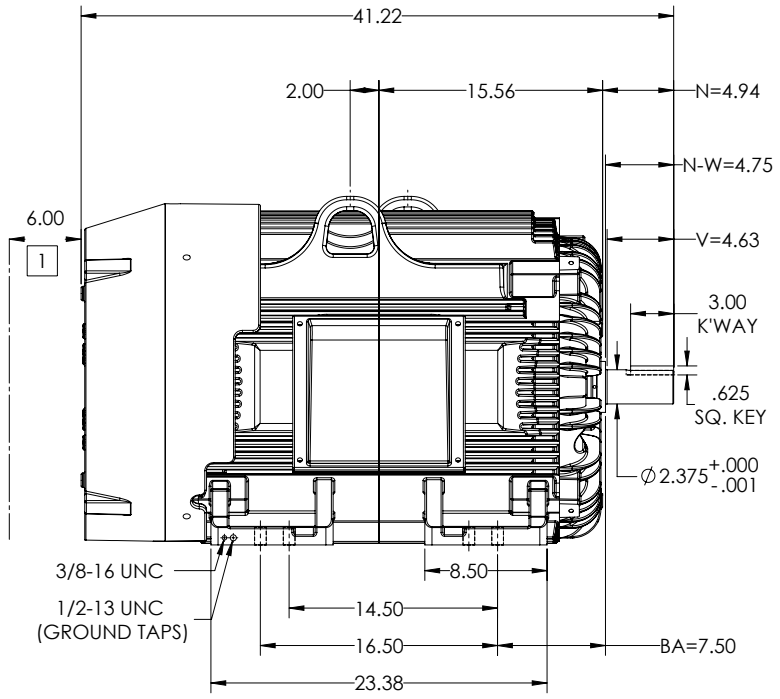
ENCLOSURE: TOTALLY ENCLOSED

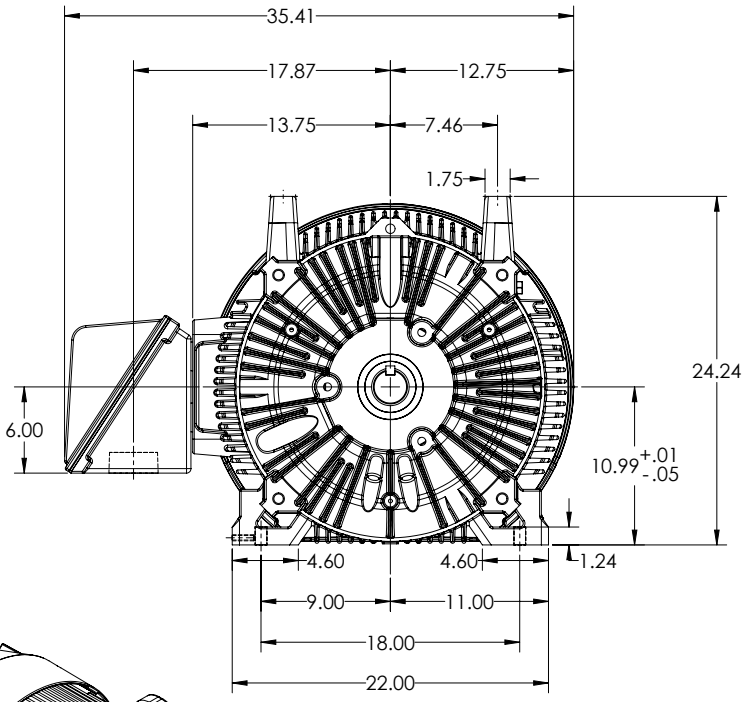
SQUIRREL-CAGE INDUCTION

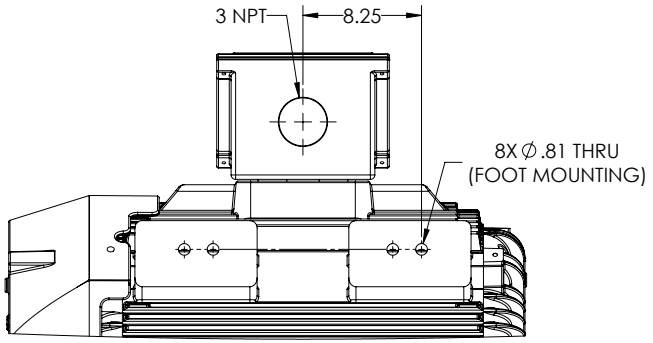
MOUNTING: FOOT, F-1 SIDE

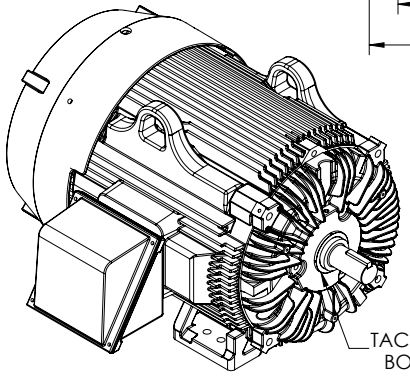
G444TS/G445TS FRAME MOUNTING HOLES

COOLING: FAN COOLED









1 OBSTRUCTION MUST NOT ENCROACH ON AIR INLET.

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.

DIMENSIONS ARE IN INCHES.

WEIGHT (LBS): 2130, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.

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

SHEET NUMBER 1 OF 1	REV. DESC: UPDATE DS QUALITY		
617435-912	REV: A / VERSION: 01	REVISED: 01:03:38 12/21/2018	TDR: 000001094163
	MODEL NO. 617435-912		REF:
	BY: USJEDIL	Material:	C

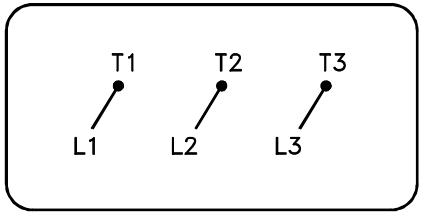
BALDOR

G445/444TS TEFC FOOT F1 CAST IRON BOX/TACONITE SLINGERS

617435-912

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