



Customer information packet

ZDVSM4410T-4

125HP, 1790-2685RPM, 3PH, 60-90HZ, 444T, A440

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	444T
Frame Material	Iron
Frequency	60.00 Hz 90.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 90 HZ 125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 460.0 V @ 90 HZ
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	1000:1
Current @ Voltage	140.000 A @ 460.0 V 150.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	ENCODER
Heater Indicator	No Heater
High Voltage Full Load Amps	140.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs

Part detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG0911
Layout	617427-068
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	08-24-2012

Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44062M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	49.07 IN
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1790 rpm
	2685 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007HV

CAT NO	ZDVSM4410T-4		SPEC NO.		P44G4013	
SER.NO.			FRAME		444T	
	HP	RPM	VOLTS	AMPS	HZ	TYPE P
BASE	125	1790	460	150	60	SF 1.00
MAX	125	2685	460	140	90	INSUL.CLASS F
DRIVE END BEARING	90BC03J30X		CONSTANT TORQUE		DUTY	CONT AMB 40
OPP D.E. BEARING	6318C3VL0241		1000:1	ENCL	TEFC	PHASE 3
DESIGN NO.	A44WG0911-R003		FLUX AMPS		62.1	VPWM INVERTER READY
MAX SPEED/RPM	3600		OVERTEMP PROT		2 WK2 40.0	POLES 4 WEIGHT

NP2496L	
MOBIL POLYREX EM	

REL S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE	CONN	EQ	CKT	OHMS	PER	PHASE
FRAME	444T	AMPS	150	MAX SAFE RPM	3600	(AT BASE RATING, 25 °C)						
HP	125	DUTY	CONT	IM (AMPS)	62.1	R1	.0136	X1			.134	
BASE SPEED	1790	S.F.	1.00	P.F.@Nl/FL	7.2/82.1	R2	.00939	X2			.109	
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	WK2 (lb-ft ²)	40.99						XM	3.58

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1790	125	367	460	60	150
MAX SPEED	2684	125	244	460	90	140
MTN SPEED	0	0	367	7.80	.342	150

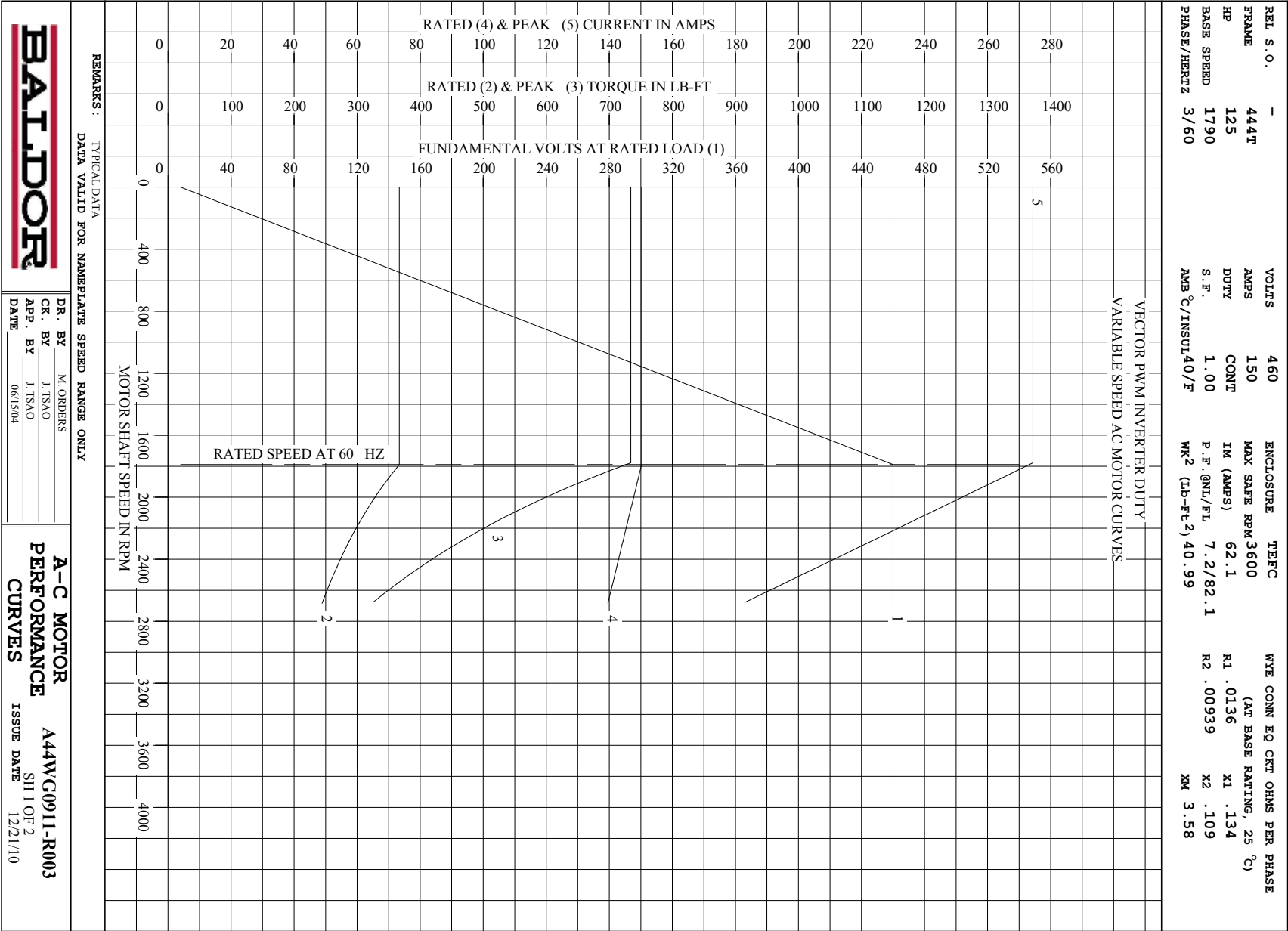
LOAD PERFORMANCE AT BASE SPEED

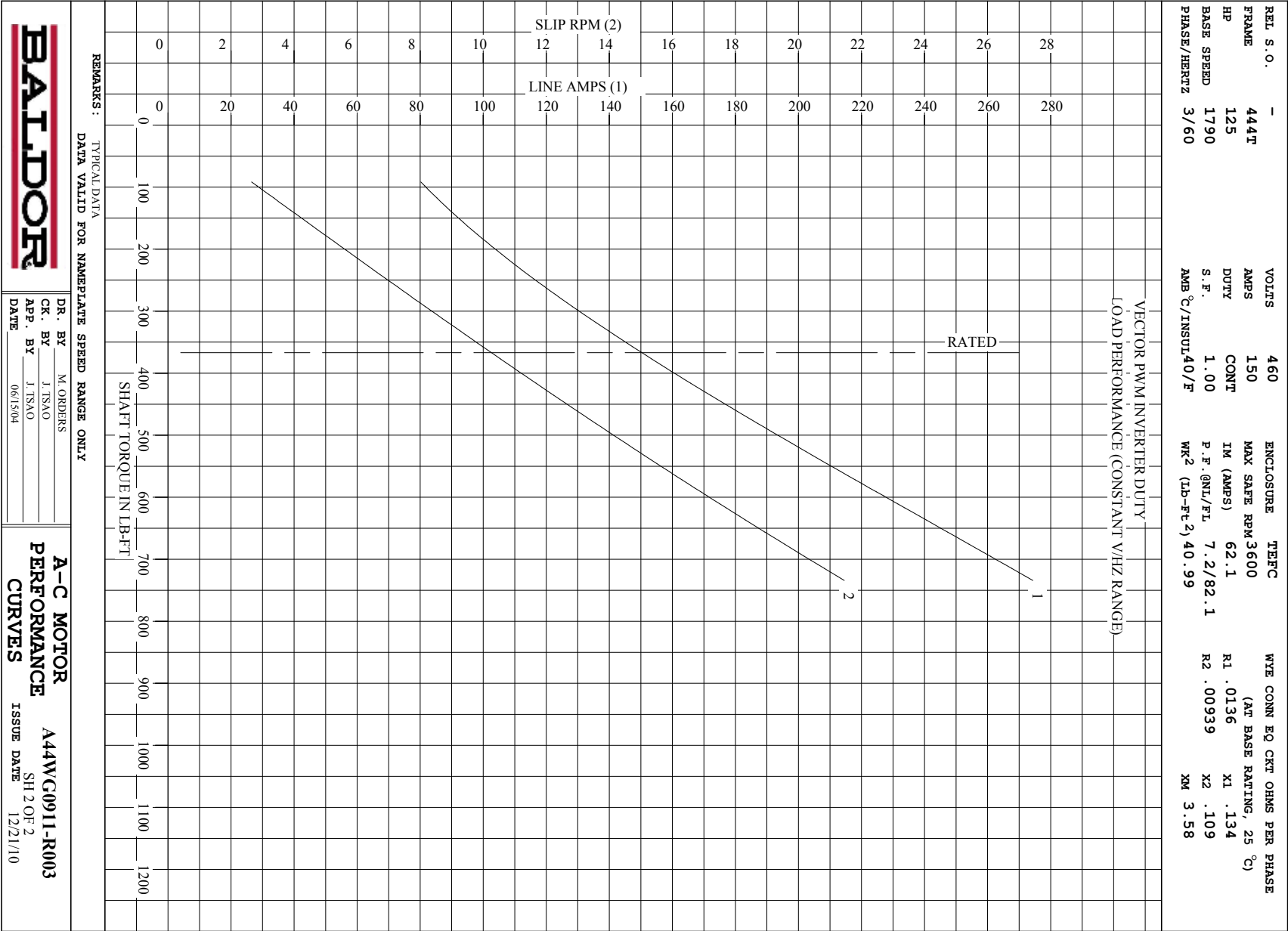
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	62.1
1/4	1797	31.3	92	460	60	80.4
1/2	1795	62.6	183	460	60	99.1
3/4	1792	93.8	275	460	60	124
FULL LOAD	1790	125	367	460	60	150
O/L	1779	249	734	460	60	274

BLOWER DATA	VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM

REMARKS: TYPICAL DATA
VECTOR PWM INVERTER DUTY

BALDOR		DR. BY M. ORDERS	A-C MOTOR
		CK. BY J. TSAO	PERFORMANCE
		APP. BY J. TSAO	DATA
		DATE 06/15/04	A44WG0911-R003
			ISSUE DATE 12/21/10





DUTY MASTER ALTERNATING CURRENT MOTORS

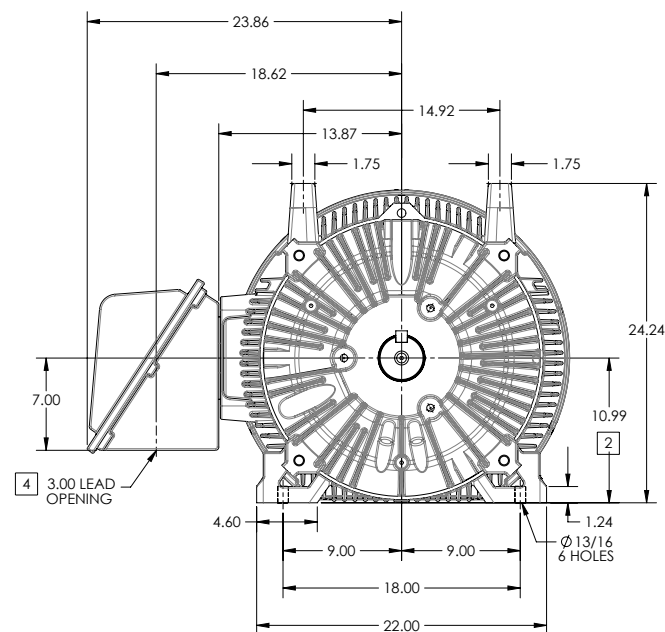
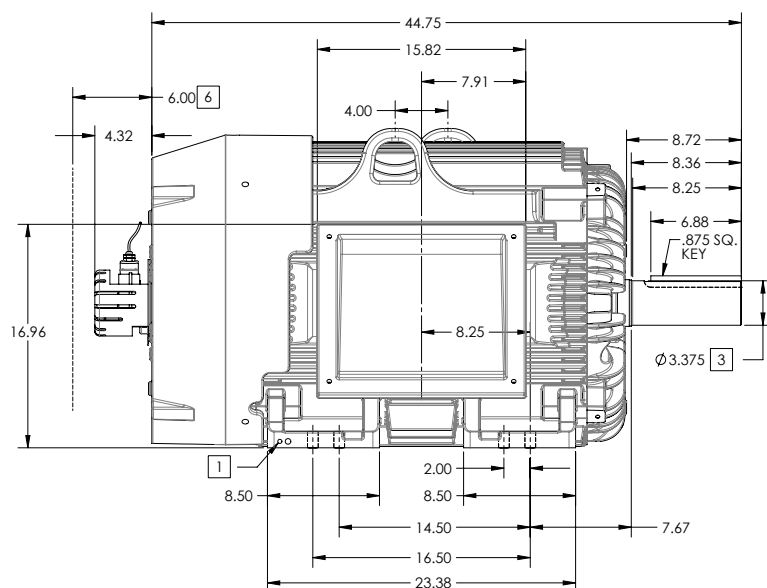
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES
WITH BEI HS-35 ENCODER

1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00, -.06
3. VARIES +.000, -.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NOT ENCR OACH 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.

[5] WEIGHT (LBS): 2130

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

3807-17427-068

REV. DESC: DRAWING ERROR, CHANGED C/BOX LEAD OUT DIM. TO 3.00	
REV: A	VERSION: 01
MODEL NO. 617427-068	REVISED: 07-24-27 09/17/2015
BY: RAGISS1	TDR: 00000944451
Material:	REF:

BALDOR

G445T/444T STD - FOOTED - SIDE-CENTER C/B BEI HS-35 ENCODER

617427-068

DUTY MASTER ALTERNATING CURRENT MOTORS

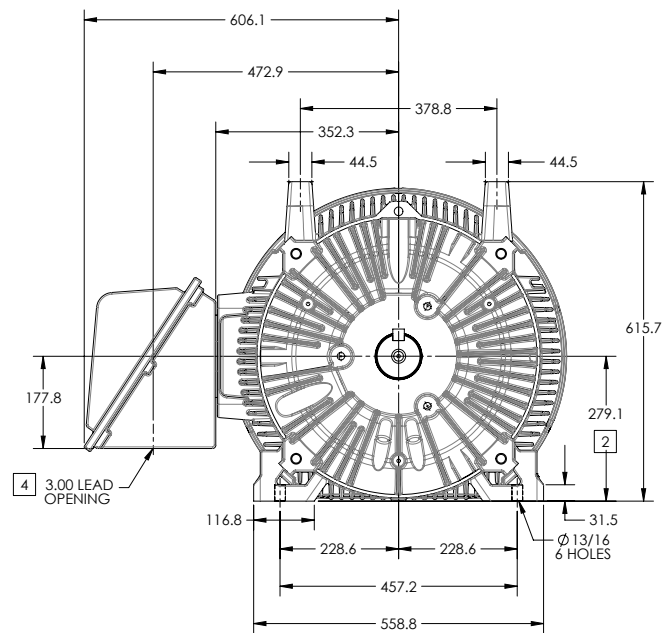
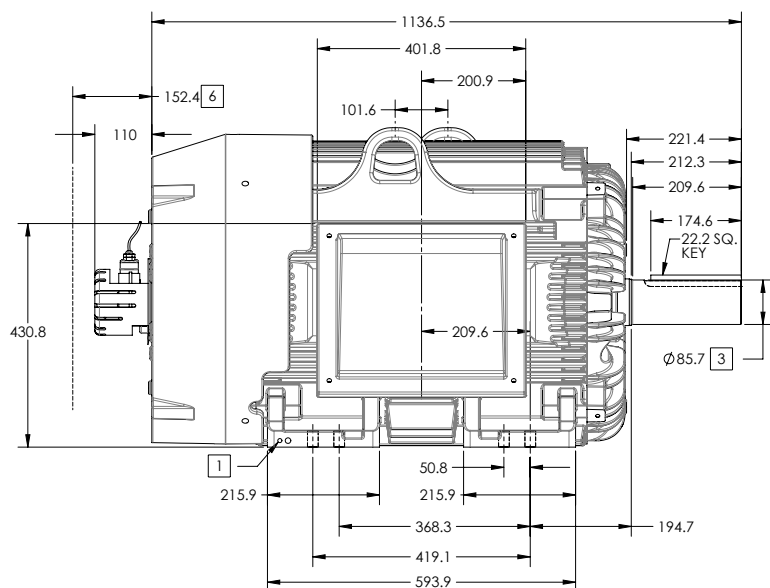
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES
WITH BEI HS-35 ENCODER

1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.00,-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
6. 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.

[5] WEIGHT (KGS): 970

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.

SHEET NUMBER
2 OF 2

8907-2727-119

REV. DESC: DRAWING ERROR, CHANGED C/BOX LEAD OUT DIM. TO 3.00

REV: A VERSION: 01

REVISED: 07-24-27 09/17/2015

TDR: 000000944451

MODEL NO. 617427-068

REF:

BY: RAGISS1

Material:

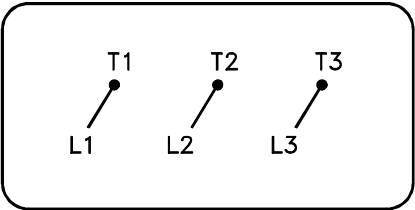
BALDOR

G445T/444T STD - FOOTED - SIDE/CENTER C/B BEI HS-35 ENCODER

617427-068

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