ABB BALDOR RELIANCE

Customer information packet

ZDVSM4410T-4

125HP, 1790-2685RPM, 3PH, 60-90HZ, 444T, A440
Class - None
Division - Not Applicable

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11/2/2026 3:45:56 AM

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	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG0911
Layout	617436-909
Eff. date	03-02-2026
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	WK^2 ($Lb-Ft^2$)	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
MIN SPEED	0	0	367	7.80	.342	150

LOAD PERFORMANCE AT BASE SPEED

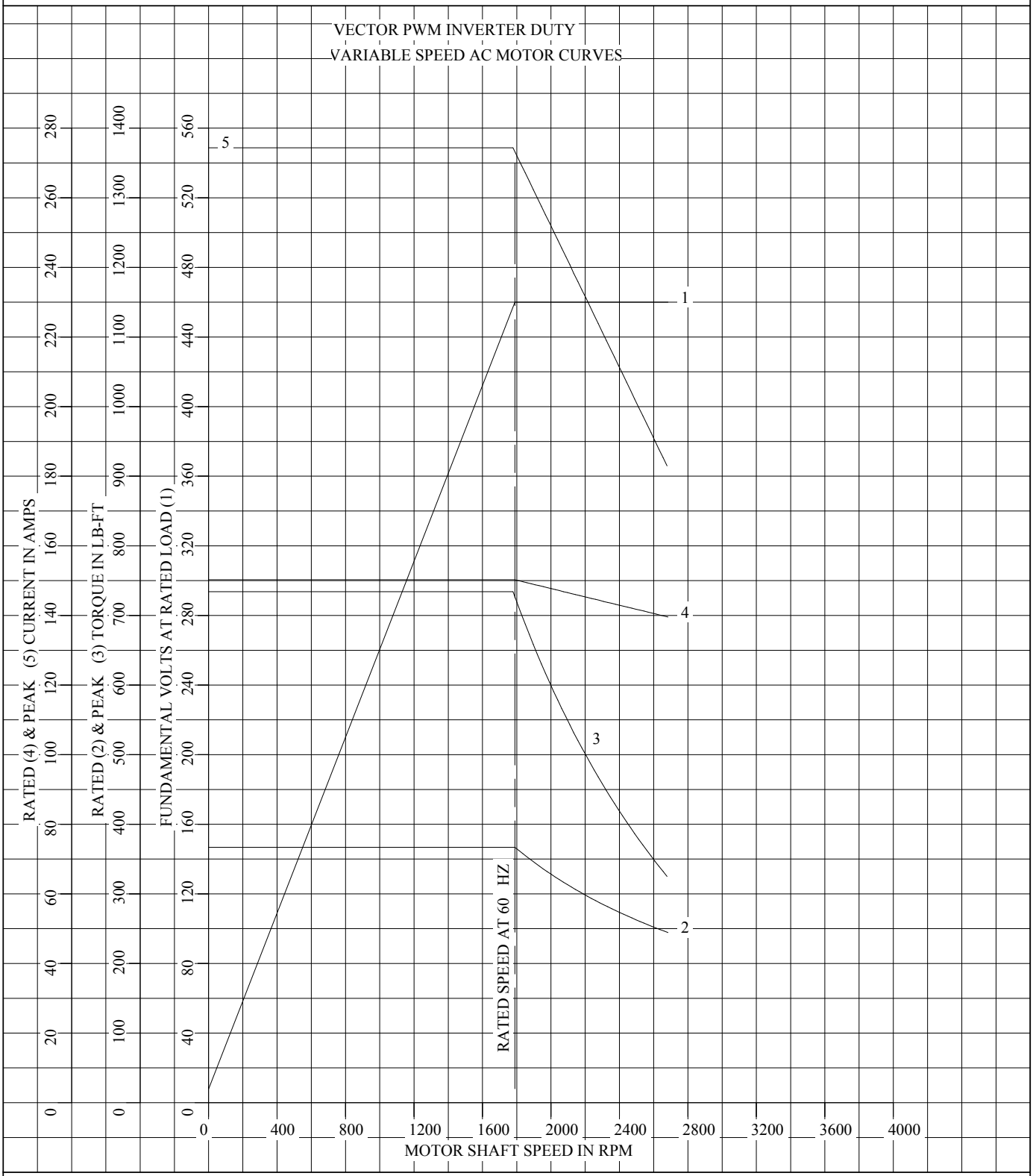
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	62.1
1/4	1797	31.3	92	460	60	80.4
1/2	1795	62.6	183	460	60	99.1
3/4	1792	93.8	275	460	60	124
FULL LOAD	1790	125	367	460	60	150
O/L	1779	249	734	460	60	274

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

REMARKS: TYPICAL DATA
VECTOR PWM INVERTER DUTY

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

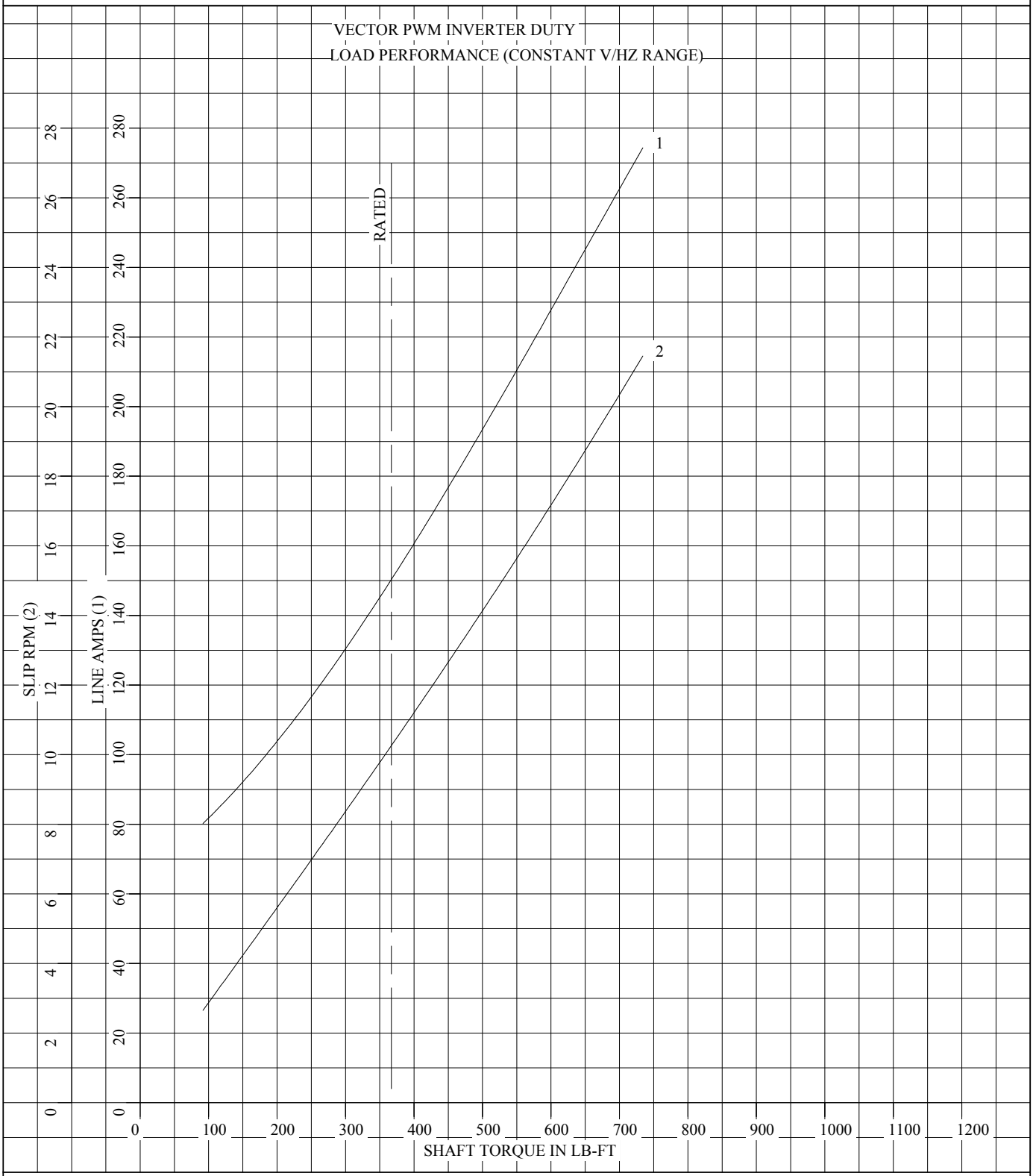
REL S.O.	–	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 °C)	
FRAME	444T	AMPS	150	MAX SAFE RPM	3600		
HP	125	DUTY	CONT	IM (AMPS)	62.1	R1 .0136	X1 .134
BASE SPEED	1790	S.F.	1.00	P.F.@NL/FL	7.2/82.1	R2 .00939	X2 .109
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	WK² (Lb-Ft²)	40.99		XM 3.58



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR	DR. BY M. ORDERS CK. BY J. TSAO APP. BY J. TSAO DATE 06/15/04	**A–C MOTOR PERFORMANCE CURVES**	**A44WG0911-R003** SH 1 OF 2 ISSUE DATE 12/21/10

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-Ft²)	40.99		XM 3.58



REMARKS: TYPICAL DATA

DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR

DR. BY	M. ORDERS
CK. BY	J. TSAO
APP. BY	J. TSAO
DATE	06/15/04

A–C MOTOR PERFORMANCE CURVES

A44WG0911-R003

SH 2 OF 2

ISSUE DATE 12/21/10

DUTY MASTER ALTERNATING CURRENT MOTORS

617436-909

ENCLOSURE: TOTALLY ENCLOSED

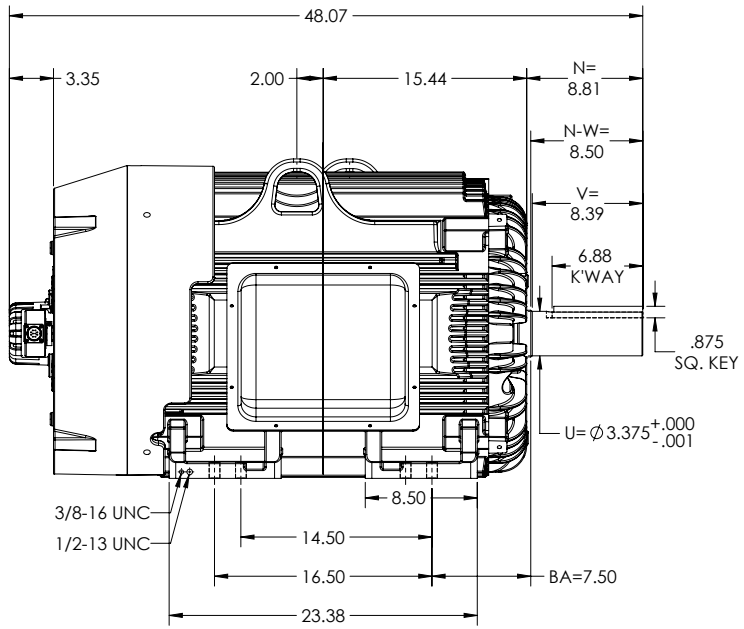
SQUIRREL-CAGE INDUCTION

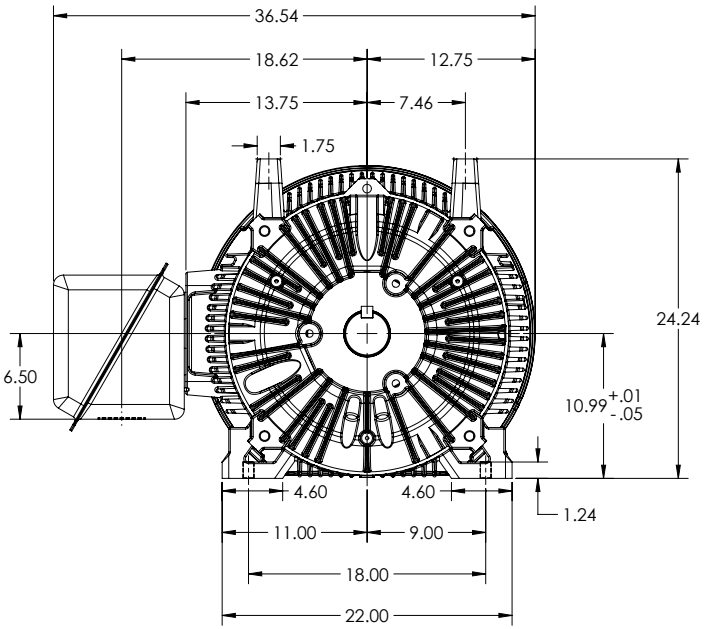
MOUNTING: FOOT, F-1

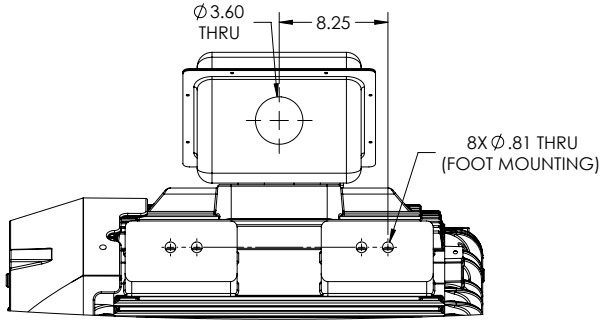
G445T/G444T FRAME FOOT MOUNTING HOLES

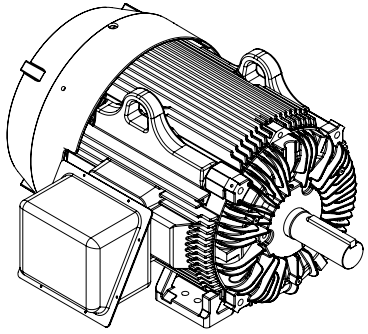
COOLING: FAN COOLED

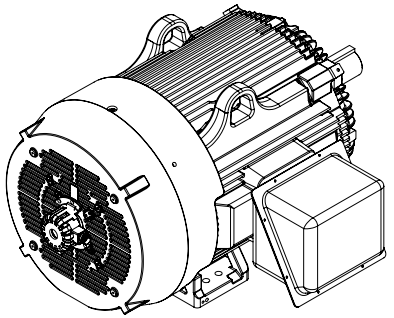
BEI HS35 ENCODER











DIMENSIONS ARE IN INCHES.
MOTOR WEIGHTS(LBS) = 2130 ± 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 1

606-617436-909

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 DRW			
REV: -	VERSION: 00	REVISED: 02:21:36 08/18/2021	TDR: 000001175082
MODEL NO. 617436-909			REF: -
BY: USJEDIL	Material: _		C

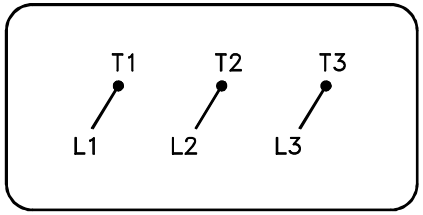
BALDOR

G445/444T TEFC F1 FOOT/STEEL BOX/BEI HS35 ENCODER

617436-909

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