ABB BALDOR RELIANCE

Customer information packet

ZDVSM4406T-4

150HP, 1790-2685RPM, 3PH, 60-90HZ, 444T, A440
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	445T
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	150.000 HP @ 90 HZ
	150.000 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	165.000 A @ 460.0 V
	177.000 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	165.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG0183
Layout	617436-909
Eff. date	03-02-2026
CD Diagram	416820-036
Poles	04
Leads	3#2/0
Proprietary	False
Created date	08-24-2012

Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44078M
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	ZDVSM4406T-4		**SPEC NO.**	P44G4014								
SER.NO.			**FRAME**	445T								
	HP	**RPM**	**VOLTS**	**AMPS**	**HZ**	**TYPE**	P					
BASE	150	1790	460	177	60	**SF**	1.00					
MAX	150	2685	460	165	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.	A44WG0183-R001		**FLUX AMPS**	66.6		**VPWM INVERTER READY**						
MAX SPEED/RPM	3600		**OVERTEMP PROT**	2	**WK2**	51.57	**POLES**	4	**WEIGHT**			

REL S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	445T	AMPS	177	MAX SAFE RPM	3600	(AT BASE RATING, 25 °C)			
HP	150	DUTY	CONT	IM (AMPS)	66.6	R1	.0101	X1	.100
BASE SPEED	1790	S.F.	1.00	P.F.@NL/FL	.071/.835	R2	.00736	X2	.0926
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	WK^2 ($Lb-Ft^2$)	51.6			XM	3.14

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1790	150	440	460	60	177
MAX SPEED	2685	150	293	460	90	165
MIN SPEED	0	0	440	7.20	.328	177

LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	66.6
1/4	1797	37.6	110	460	60	92.5
1/2	1795	75.1	220	460	60	115
3/4	1793	112	329	460	60	145
FULL LOAD	1790	150	440	460	60	177
O/L	1779	299	881	460	60	325

REMARKS: TYPICAL DATA
VECTOR PWM INVERTER DUTY

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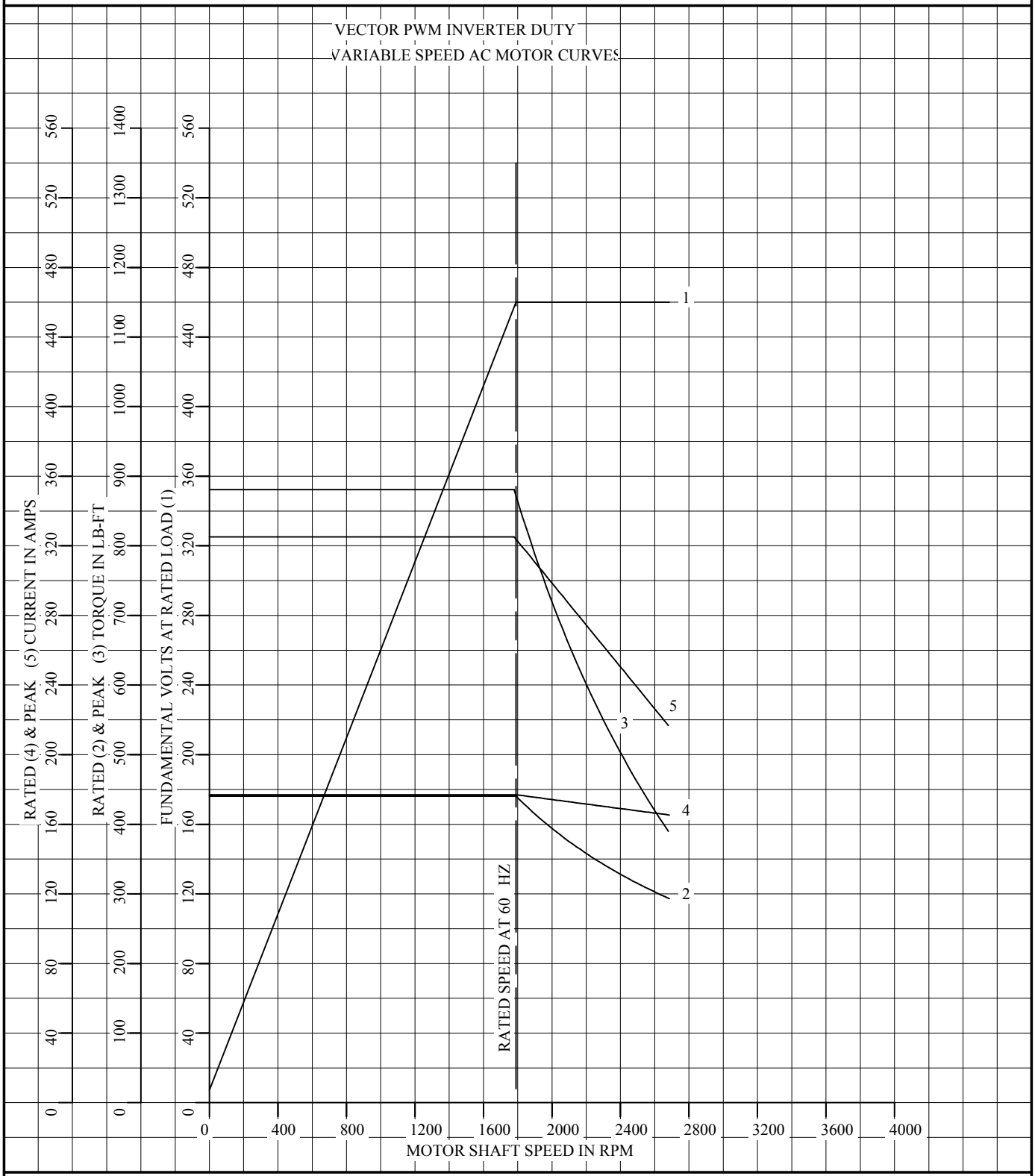
DR. BY M. ORDERS
CK. BY J. TSAO
APP. BY J. TSAO
DATE 10/27/00

A-C MOTOR PERFORMANCE DATA

A44WG0183-R001
ISSUE DATE 06/05/15

C/R 343668

REL S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	445T	AMPS	177	MAX SAFE RPM	3600	(AT BASE RATING, 25 ℃)	
HP	150	DUTY	CONT	IM (AMPS)	66.6	R1 .0101	X1 .100
BASE SPEED	1790	S.F.	1.00	P.F.@NL/FL	.071/.835	R2 .00736	X2 .0926
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	WK^2 (Lb-Ft^2)	51.6		XM 3.14



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

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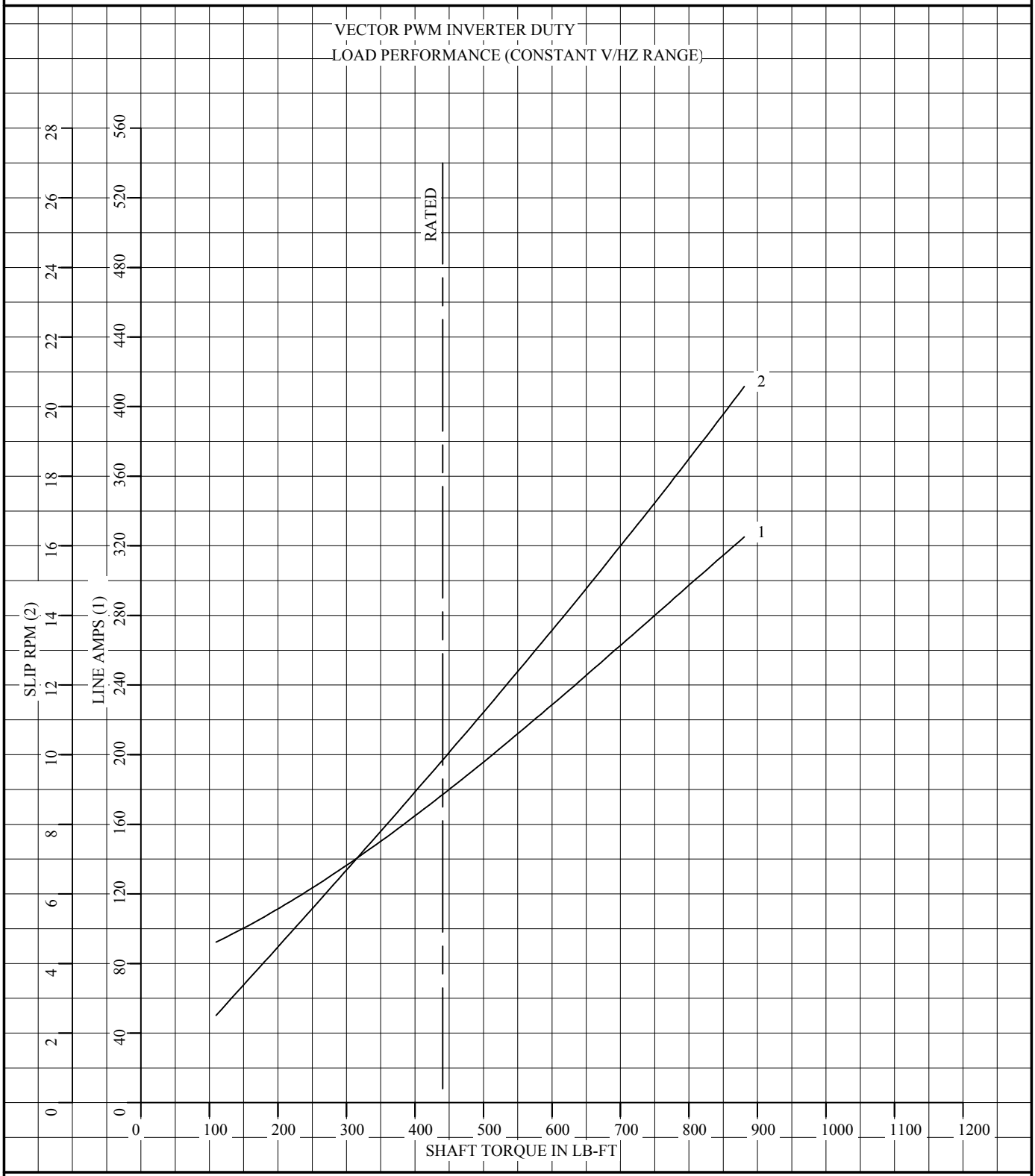
DR. BY	M. ORDERS
CK. BY	J. TSAO
APP. BY	J. TSAO
DATE	10/27/00

A-C MOTOR PERFORMANCE CURVES

A44WG0183-R001
SH 1 OF 2
ISSUE DATE 06/05/15

C/R 343668

REL S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	445T	AMPS	177	MAX SAFE RPM	3600	(AT BASE RATING, 25 ℃)	
HP	150	DUTY	CONT	IM (AMPS)	66.6	R1 .0101	X1 .100
BASE SPEED	1790	S.F.	1.00	P.F.@NL/FL	.071/.835	R2 .00736	X2 .0926
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	WK^2 (Lb-Ft^2)	51.6		XM 3.14



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

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DR. BY	M. ORDERS
CK. BY	J. TSAO
APP. BY	J. TSAO
DATE	10/27/00

A-C MOTOR PERFORMANCE CURVES

A44WG0183-R001
SH 2 OF 2
ISSUE DATE 06/05/15

C/R 343668

DUTY MASTER ALTERNATING CURRENT MOTORS

617436-909

ENCLOSURE: TOTALLY ENCLOSED

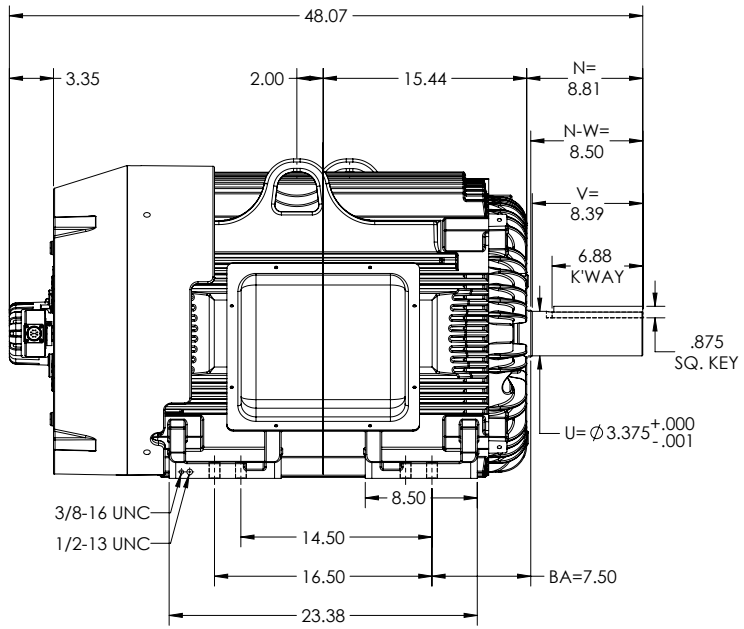
SQUIRREL-CAGE INDUCTION

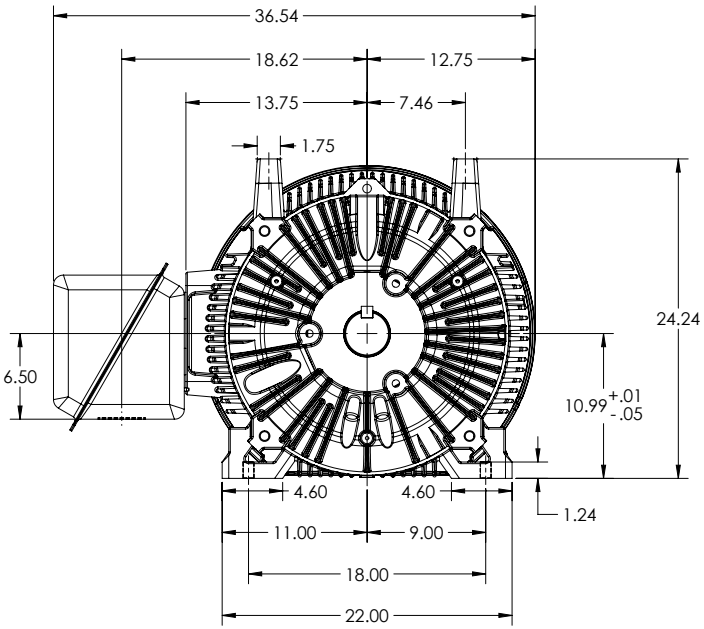
MOUNTING: FOOT, F-1

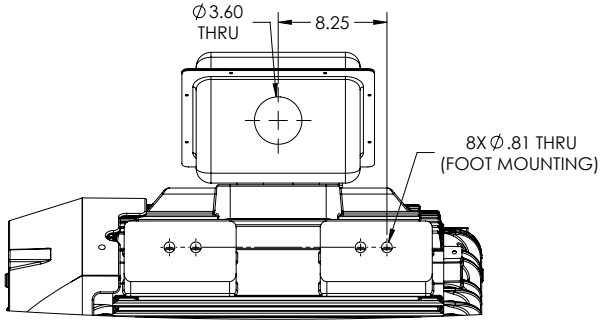
G445T/G444T FRAME FOOT MOUNTING HOLES

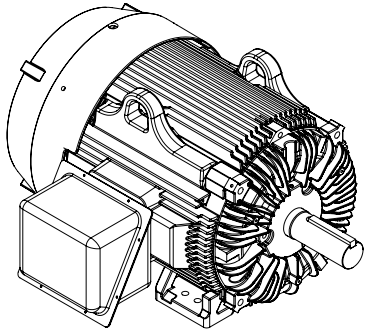
COOLING: FAN COOLED

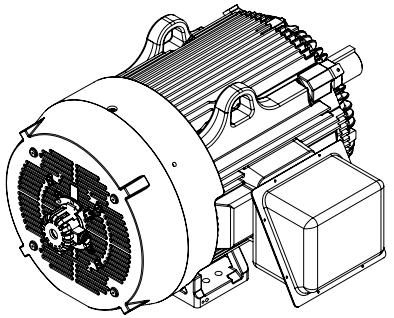
BEI HS35 ENCODER











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

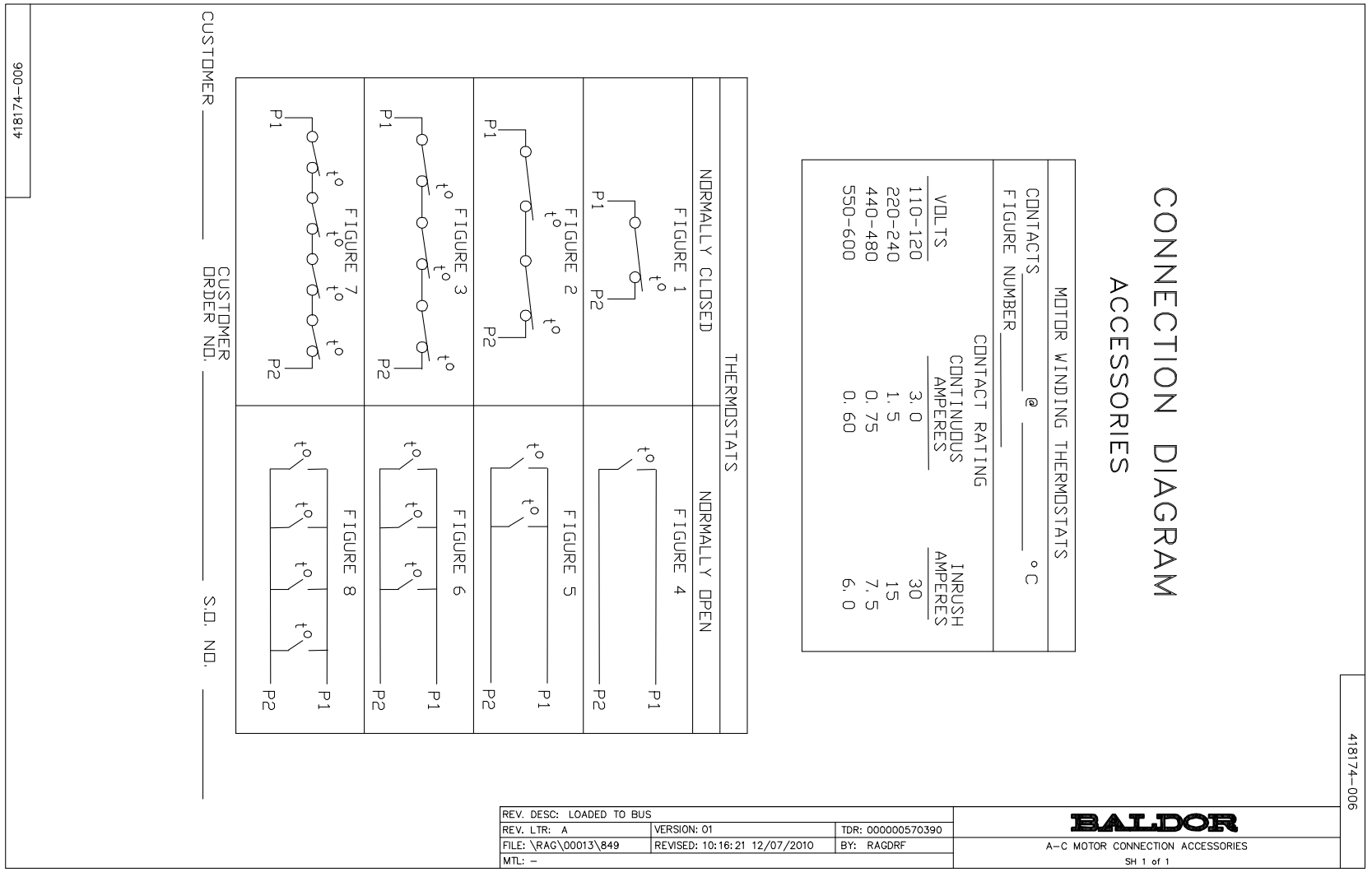
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003 T.I.R.

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

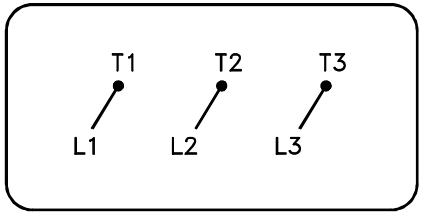
G445/444T TEFC F1 FOOT/STEEL BOX/BEI HS35 ENCODER

617436-909


CONNECTION DIAGRAM
ACCESSORIES
MOTOR WINDING THERMOSTATS
CONTACTS _____ @ _____ °C
FIGURE NUMBER _____
CONTACT RATING
VOLTS
CONTINUOUS AMPERES
INRUSH AMPERES
110-120 3.0 30
220-240 1.5 15
440-480 0.75 7.5
550-600 0.60 6.0
THERMOSTATS
NORMALLY CLOSED
NORMALLY OPEN
FIGURE 1
FIGURE 2
FIGURE 3
FIGURE 4
FIGURE 5
FIGURE 6
FIGURE 7
FIGURE 8
P1
P2
CUSTOMER _____
CUSTOMER ORDER NO. _____
S.O. NO. _____
418174-006
BALDOR
A-C MOTOR CONNECTION ACCESSORIES
SH 1 of 1
REV. DESC: LOADED TO BUS
REV. LTR: A
VERSION: 01
TDR: 000000570390
FILE: \RAG\00013\849
REVISED: 10:16:21 12/07/2010
BY: RAGDRF
MTL: -
418174-006

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