ABB BALDOR RELIANCE

Customer information packet

ZDVSM4407T-4

200HP, 1790-2685RPM, 3PH, 60-90HZ, 447T, A441
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	447T
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	200.000 HP @ 90 HZ
	200.000 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	218.000 A @ 460.0 V
	226.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	ENCODER
Heater Indicator	No Heater
High Voltage Full Load Amps	218.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1128
Layout	617427-921
Eff. date	04-06-2026
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	08-24-2012

Lifting Lugs	Standard Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44106M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	52.74 IN
Power Factor	87
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	3.375 IN
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	ZDVSM4407T-4		**SPEC NO.**	P44G4015								
SER.NO.			**FRAME**	447T								
	HP	**RPM**	**VOLTS**	**AMPS**	**HZ**	**TYPE**	P					
BASE	200	1790	460	226	60	**SF**	1.00					
MAX	200	2685	460	218	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.	A44WG1128-R001		**FLUX AMPS**	75.6		**VPWM INVERTER READY**						
MAX SPEED/RPM	3600		**OVERTEMP PROT**	2	**WK2**	70.1	**POLES**	4	**WEIGHT**			

REL S.O.	–	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 °C)			
FRAME	447T	AMPS	226	MAX SAFE RPM	3600				
HP	200	DUTY	CONT	IM (AMPS)	75.6	R1	.00721	X1	.0917
BASE SPEED	1790	S.F.	1.0	P.F.@NL/FL	.069/.867	R2	.00459	X2	.0885
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	WK^2 ($Lb-Ft^2$)	70.1			XM	2.97

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1792	200	586	460	60	226
MAX SPEED	2687	200	391	460	90	218
MIN SPEED	0	0	586	6.20	.281	226

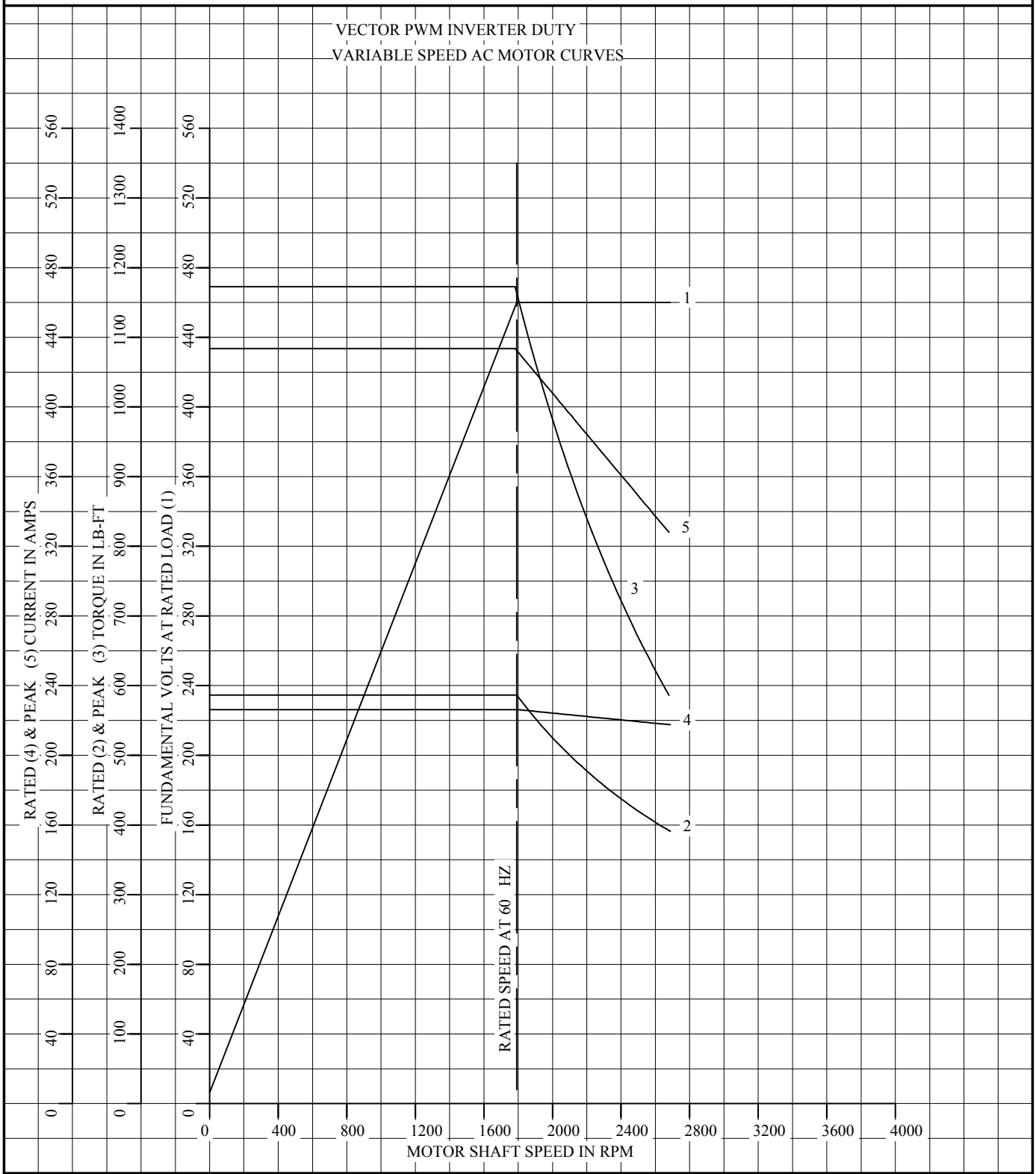
LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	75.4
1/4	1798	50.0	146	460	60	104
1/2	1796	100	293	460	60	138
3/4	1794	150	439	460	60	180
FULL LOAD	1792	200	586	460	60	226
O/L	1782	398	1173	460	60	434

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

REMARKS: CALCULATED DATA
VECTOR PWM INVERTER DUTY

REL S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	447T	AMPS	226	MAX SAFE RPM	3600	(AT BASE RATING, 25 ℃)	
HP	200	DUTY	CONT	IM (AMPS)	75.6	R1 .00721	X1 .0917
BASE SPEED	1790	S.F.	1.0	P.F.@NL/FL	.069/.867	R2 .00459	X2 .0885
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	WK^2 (Lb-Ft^2)	70.1		XM 2.97



REMARKS: CALCULATED DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

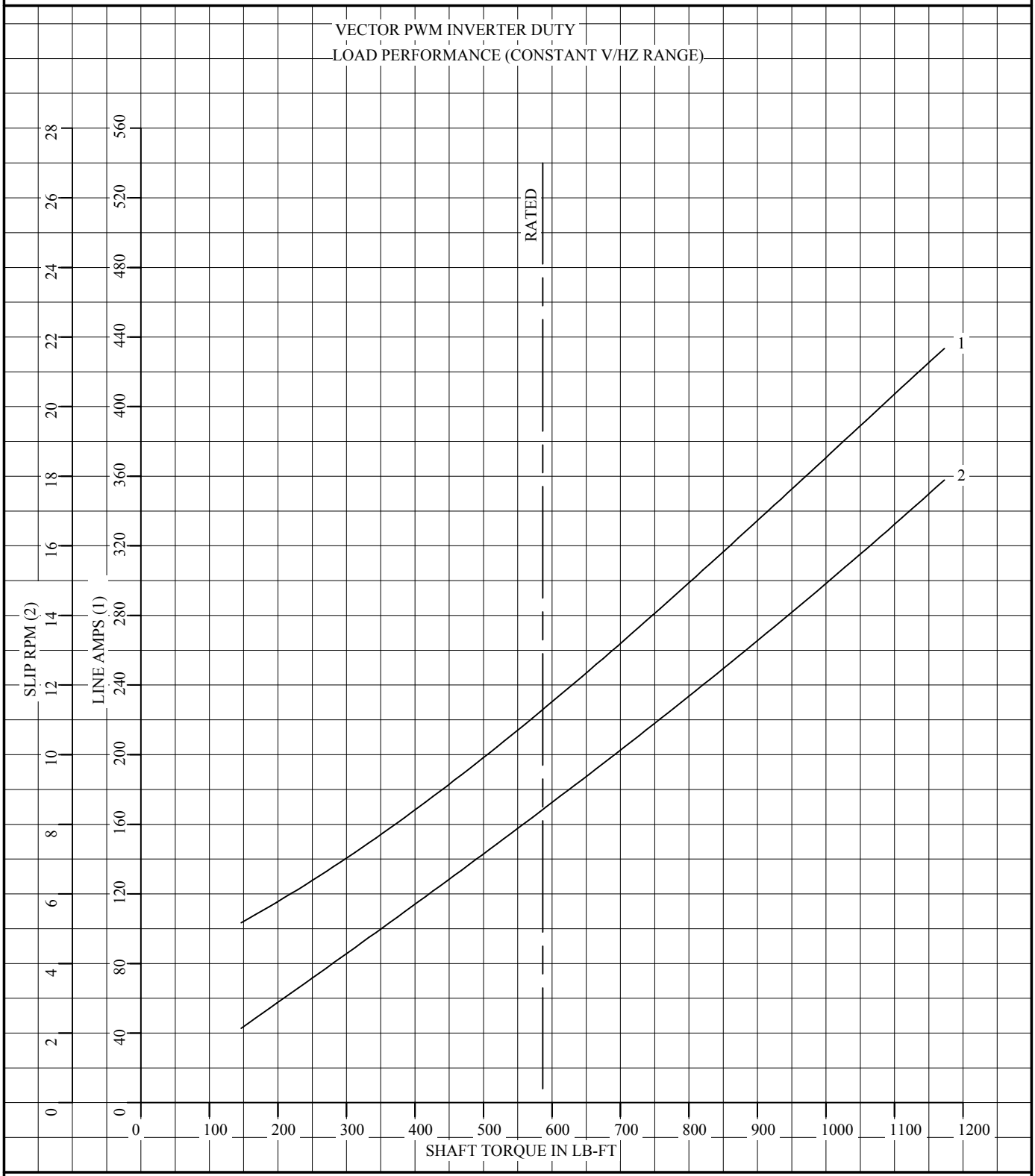
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	B.R.PENDLEY
CK. BY	W.L.SMITH
APP. BY	W.L.SMITH
DATE	09/07/04

A-C MOTOR PERFORMANCE CURVES

A44WG1128-R001
SH 1 OF 2
ISSUE DATE 04/05/11

REL S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	447T	AMPS	226	MAX SAFE RPM	3600	(AT BASE RATING, 25 ℃)	
HP	200	DUTY	CONT	IM (AMPS)	75.6	R1 .00721	X1 .0917
BASE SPEED	1790	S.F.	1.0	P.F.@NL/FL	.069/.867	R2 .00459	X2 .0885
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	WK^2 (Lb-Ft^2)	70.1		XM 2.97



REMARKS: CALCULATED DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	B.R.PENDLEY
CK. BY	W.L.SMITH
APP. BY	W.L.SMITH
DATE	09/07/04

A-C MOTOR PERFORMANCE CURVES

A44WG1128-R001
SH 2 OF 2
ISSUE DATE 04/05/11

617427-921

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

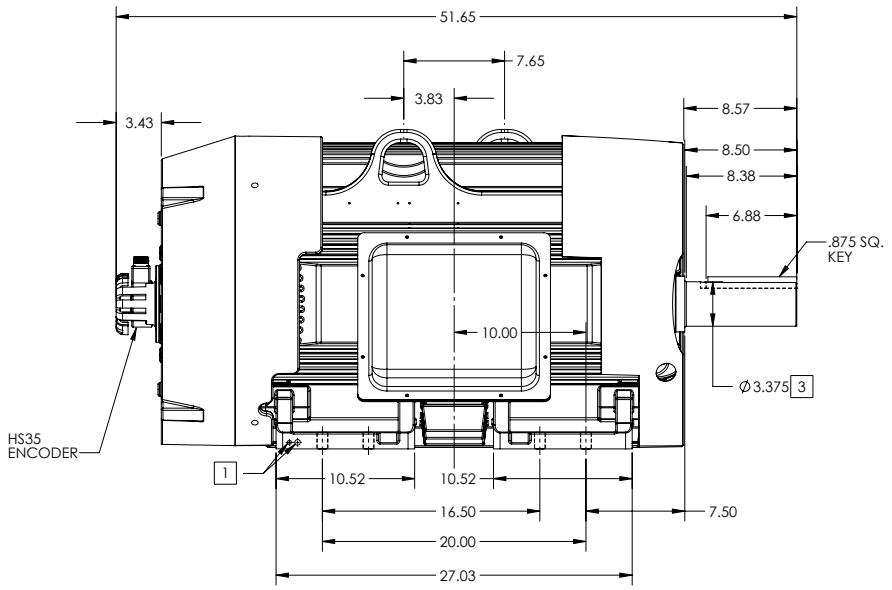
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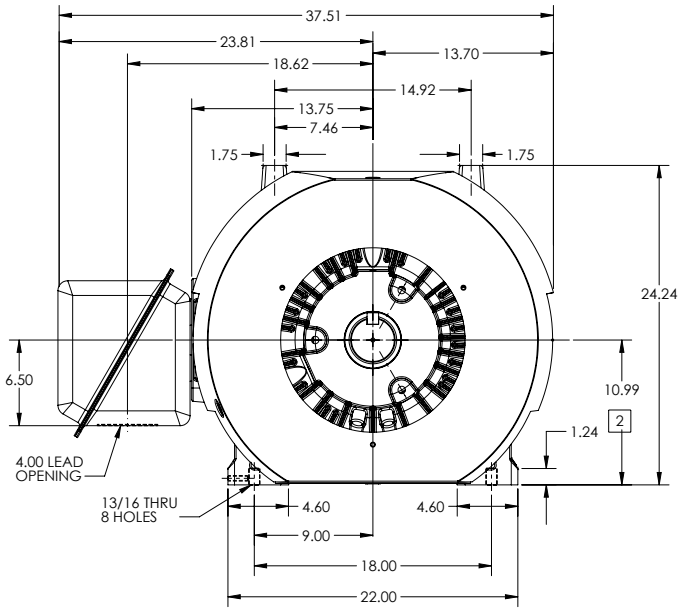
FRAME G447T

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445T FRAME MOUNTING HOLES
STEEL CONDUIT BOX
BEI HS35 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. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.

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.

4 WEIGHT (LBS): 2515

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES

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

SHEET NUMBER 1 OF 1

617427-921

REV. DESC: CHG TACH SEE TDR			
REV: A	VERSION: 01	REVISED: 01:06:31 04/16/2026	TDR: 000001275713
MODEL NO. 617427-921			REF:
BY: RAGGDM	Material:	C	

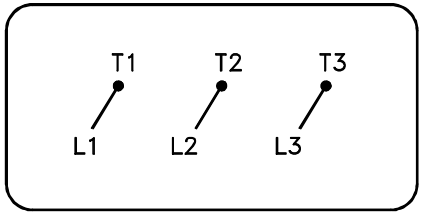
BALDOR

G447T/445T - FT – SD/CNTR STEEL CB - HS35 ENCODER

617427-921

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