

ABB BALDOR RELIANCE III

Customer information packet

ZDVSM4407T-4

200HP, 1790-2685RPM, 3PH, 60-90HZ, 447T, A441

Class - None

Division - Not Applicable

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
FRAME	447T	AMPS	226	MAX SAFE RPM	3600	(AT BASE RATING, 25 °C)				
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

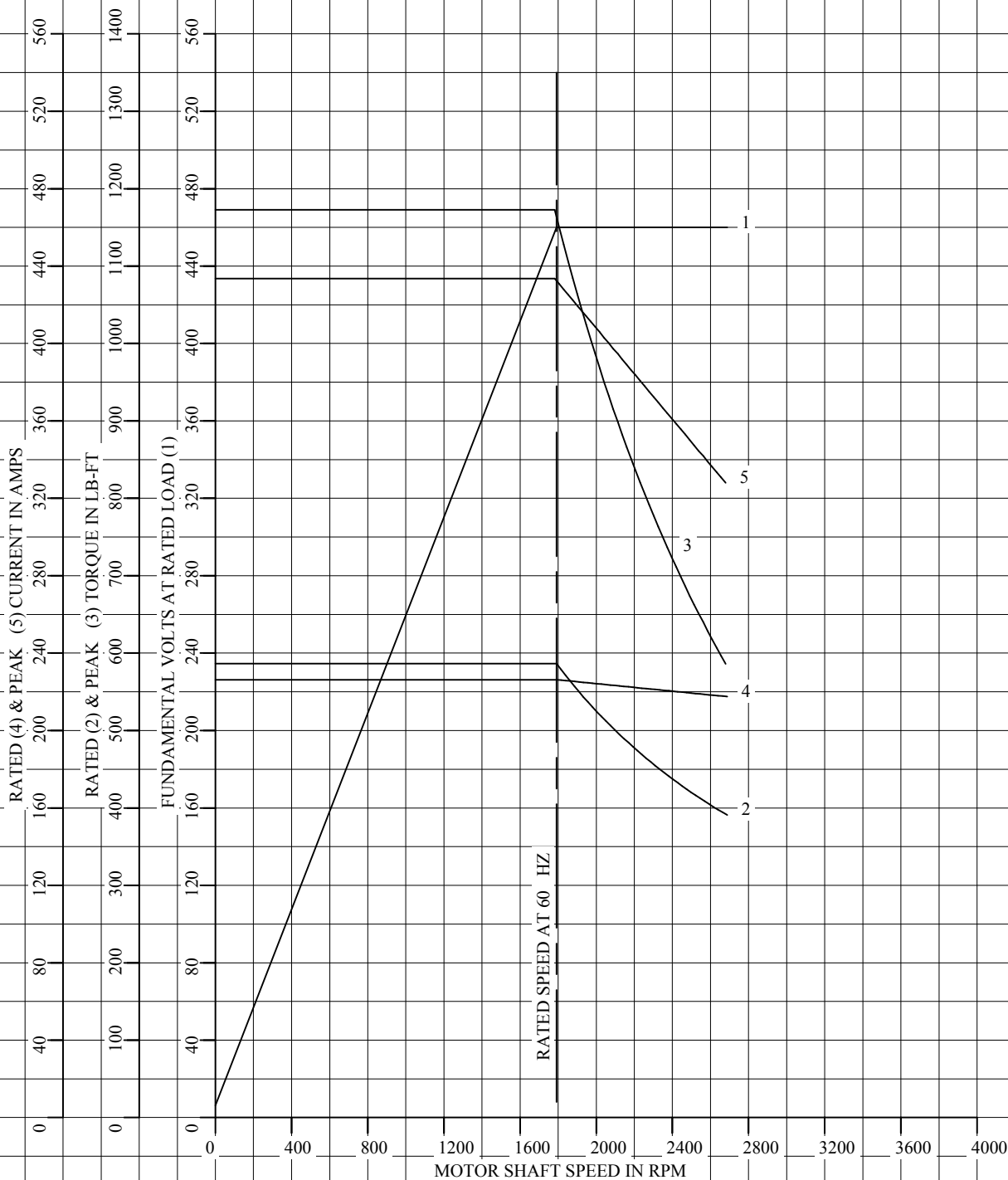


DR. BY B.R.PENDLEY
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 09/07/04

**A-C MOTOR
PERFORMANCE DATA**
A44WG1128-R001
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 °C)	
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	

VECTOR PWM INVERTER DUTY
VARIABLE SPEED AC MOTOR CURVES



REMARKS: CALCULATED DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



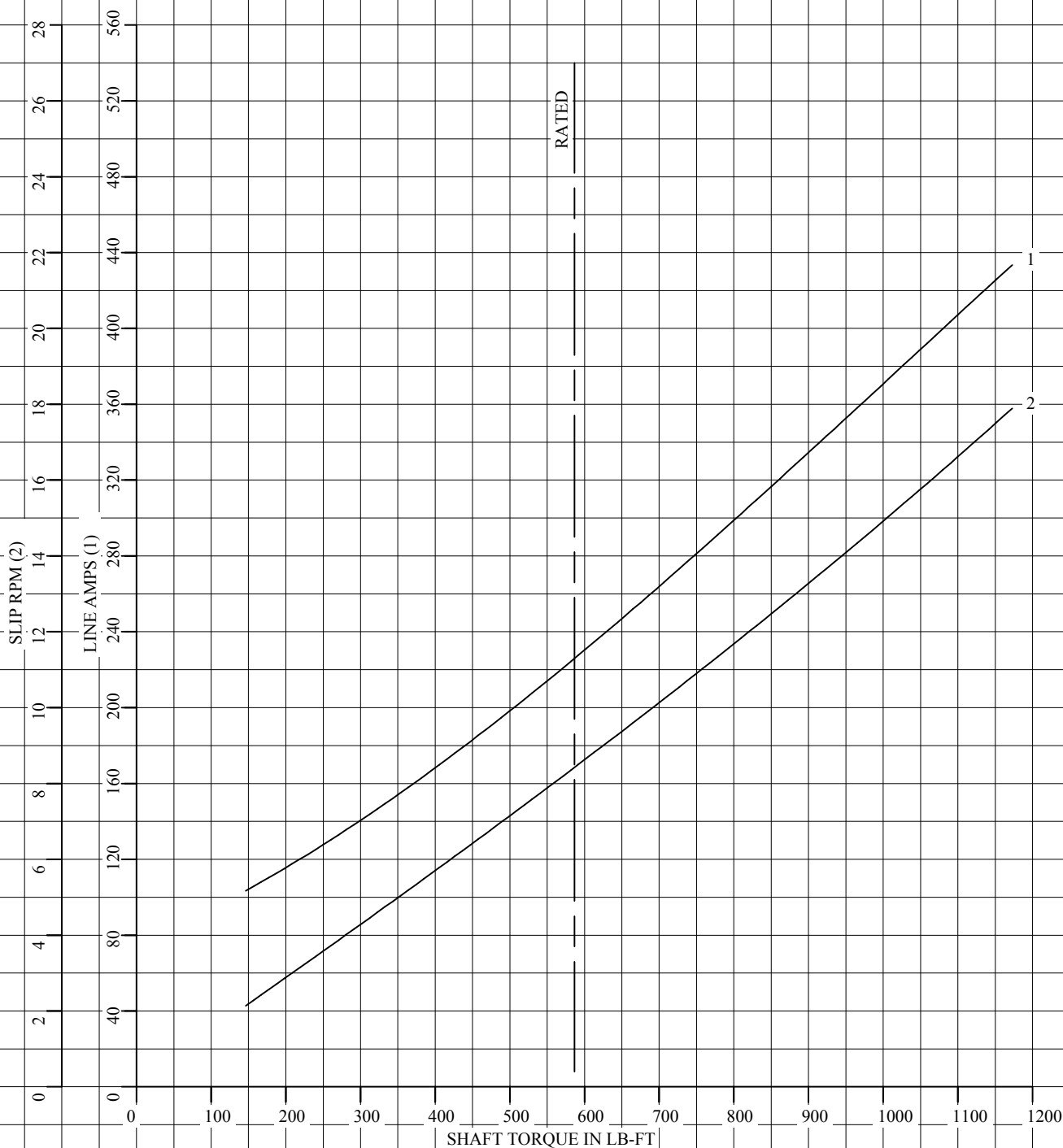
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APP. BY W.L.SMITH
DATE 09/07/04

**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 °C)	
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	

VECTOR PWM INVERTER DUTY
LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



REMARKS: CALCULATED DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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**A-C MOTOR
PERFORMANCE
CURVES**

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

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

FRAME G447T

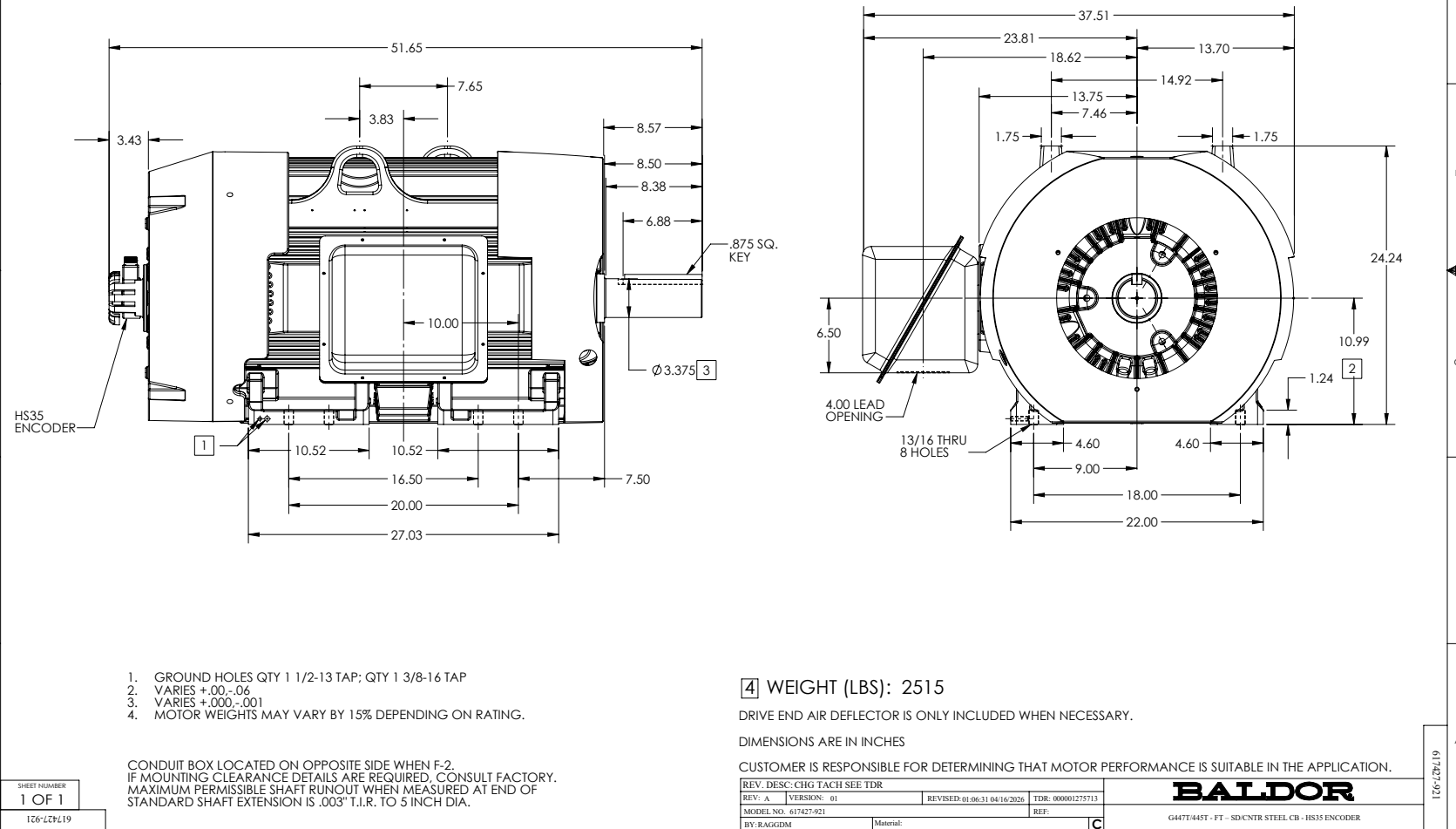
COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445T FRAME MOUNTING HOLES

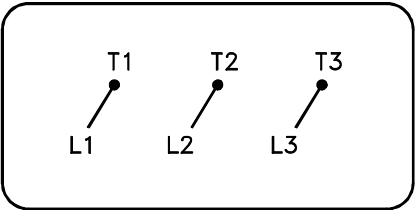
STEEL CONDUIT BOX

BEI HS35 ENCODER



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