

ABB BALDOR RELIANCE III

Customer information packet

ZDVSM4406T-4

150HP, 1790-2685RPM, 3PH, 60-90HZ, 444T, A440

Class - None

Division - Not Applicable

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

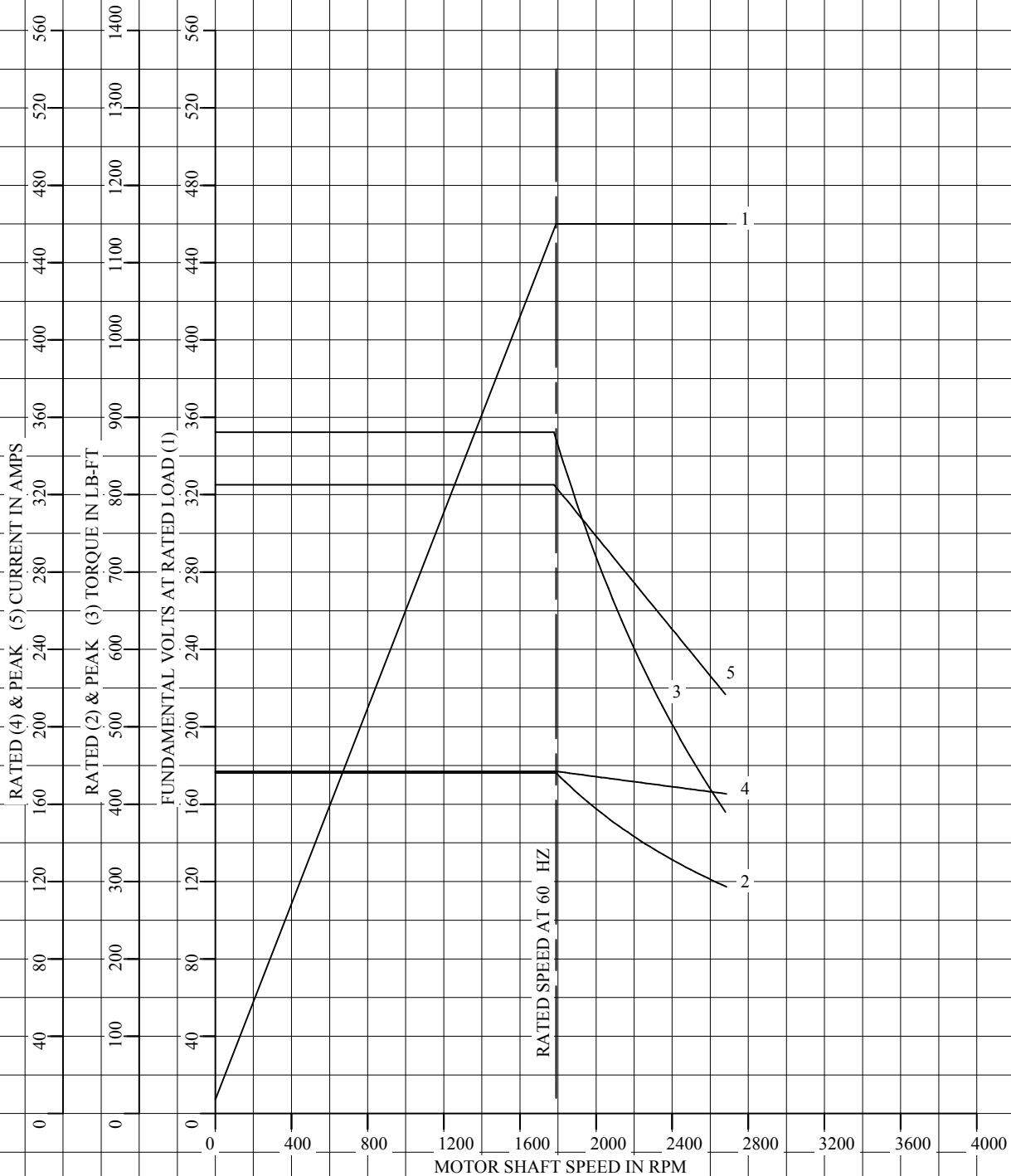


DR. BY M. ORDERS
CK. BY J. TSAO
APP. BY J. TSAO
DATE 10/27/00

**A-C MOTOR
PERFORMANCE DATA**
A44WG0183-R001
ISSUE DATE 06/05/15

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

VECTOR PWM INVERTER DUTY
VARIABLE SPEED AC MOTOR CURVES



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



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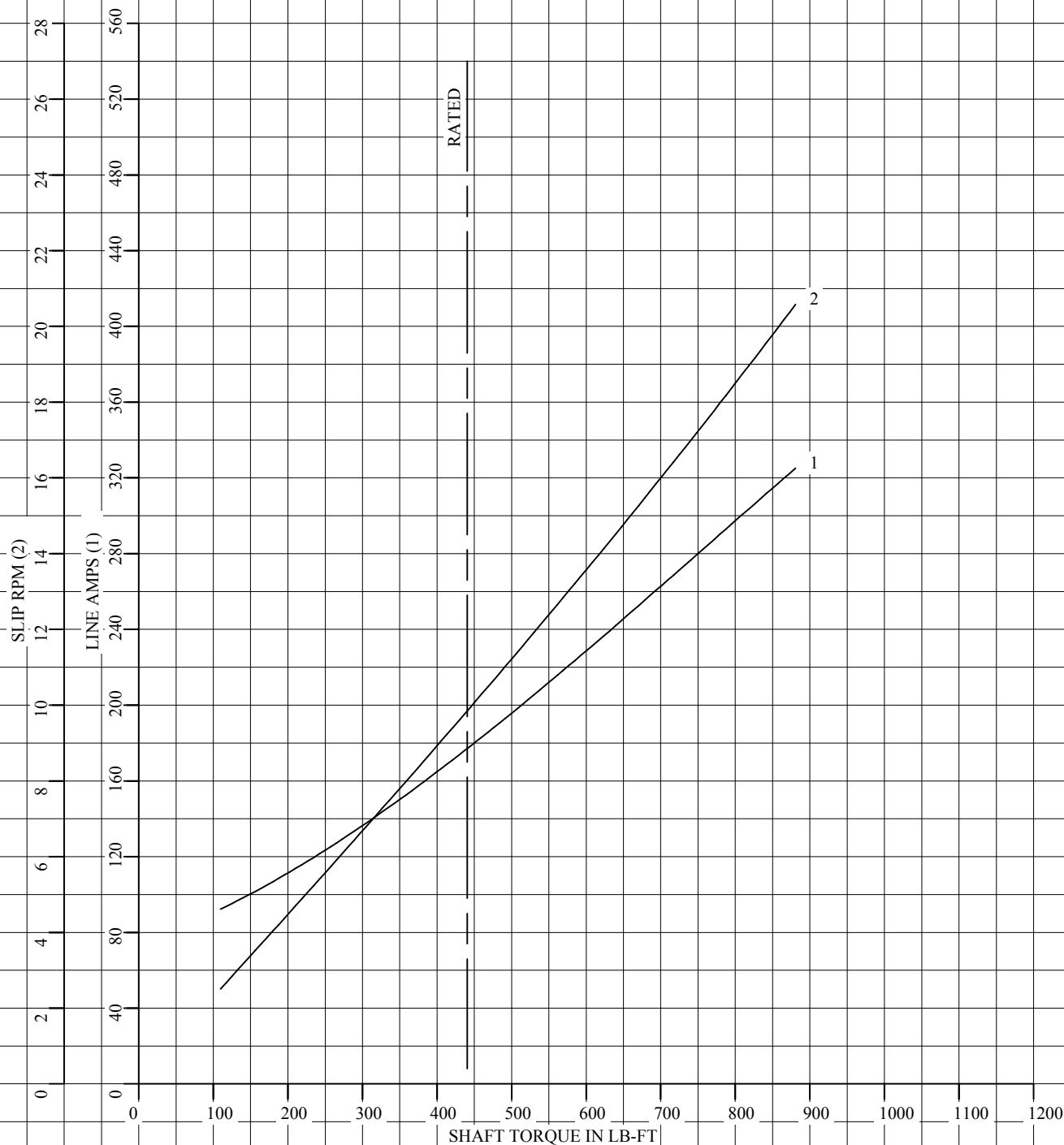
**A-C MOTOR
PERFORMANCE
CURVES**

A44WG0183-R001

SH 1 OF 2
ISSUE DATE 06/05/13 Page 6 of 10

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	

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



REMARKS: TYPICAL DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

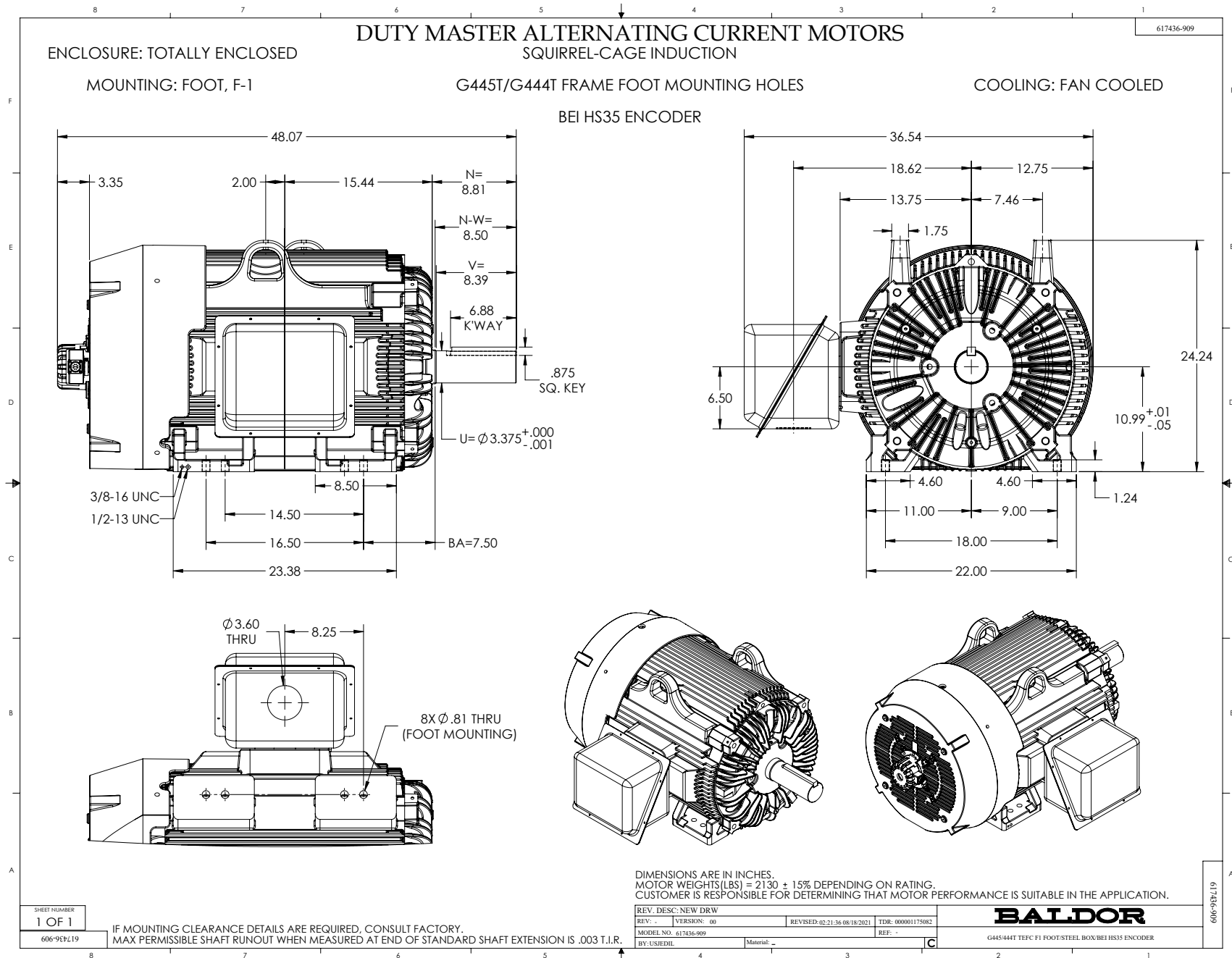


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DATE 10/27/00

**A-C MOTOR
PERFORMANCE
CURVES**

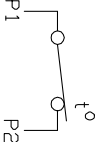
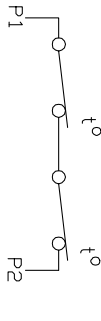
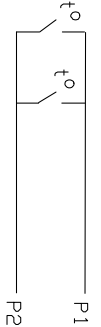
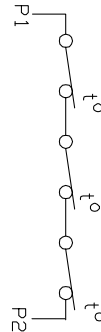
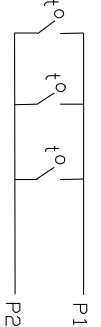
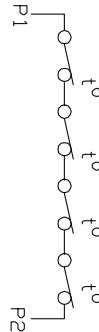
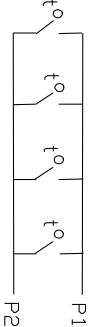
A44WG0183-R001

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ISSUE DATE 06/05/15 Page 7 of 10



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 4 
FIGURE 2 	FIGURE 5 
FIGURE 3 	FIGURE 6 
FIGURE 7 	FIGURE 8 

CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

418174-006

418174-006

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: -		

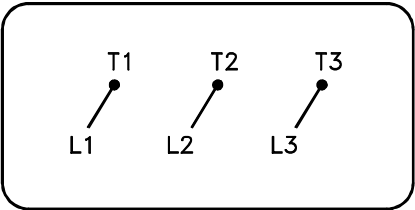
BALDOR

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

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