

ABB BALDOR RELIANCE III

Customer information packet

VPECP4310T

60HP, 3560RPM, 3PH, 60HZ, 364VP, TEFC, V1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364VP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	65.100 A @ 460.0 V 130.200 A @ 230.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	65.1 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1558
Layout	616555-992
Eff. date	10-24-2024
CD Diagram	416820-002
Poles	02
Leads	3#4,6#6
Proprietary	False
Created date	07-01-2015

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	V1
Number of Poles	2
Overall Length	37.25 IN
Power Factor	91
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3560 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP3238

CAT NO	VPECP4310T			SPEC NO.		A36-6890-1558							
HP	60	AMPS	130/65.1		VOLTS		230/460		DESIGN	B			
FRAME	364VP	RPM	3560	HZ	60	AMB	40	SF	1.15				
D.E. BRG.DATA	6313		O.D.E. BRG.DATA			7310		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	65BC03JP30X			TYPE	P	ENCL	TEFC	CODE	G				
O.D.E. BRG.	BA2B_459310			POWER FACTOR			91		NEMA NOM EFFICIENCY			95	
3/4 LOAD EFF.	95.5		MAX CORR KVAR			5.00		GUARANTEED EFFICIENCY			94.1		
TEMP CODE	T3		TEMP =		200								
CHP HZ	60-90		CT HZ	6-60		VT HZ	0-60						
INVERTER-TEMP-CODE	T3												
SER.NO.				MOTOR WEIGHT			987						

ABB BALDOR RELIANCE III S/O							CUSTOMER INFORMATION PACKET							VPECP4310T - 60HP, 3560RPM, 3PH, 60HZ, 364VP, TEFC, V1						
FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS					
364TSC			60			P			3/60			3560			230/460					
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
130/65.1			CONT			40/B			1.15			B			G			TEFC-XEX		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
491281			418141005XE			---			---			.0254/.101								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			14.1			3600			6.54			0					
1/4			15.0			20.8			3590			72.8			93.1					
2/4			30.0			33.4			3580			88.2			95.3					
3/4			45.0			48.6			3570			90.7			95.5					
4/4			60.0			65.1			3559			90.7			95.1					
5/4			75.0			82.2			3547			90.3			94.5					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			203			180			435					
PULL UP						1565			176			156			355					
BREAKDOWN						3397			233			206			212					
FULL LOAD						3559			100			88.5			65.1					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 95.0 % GUARANTEED MIN. EFF. 94.5%																				
						DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>G. R. WEBB</u> APPROVED BY: <u>D. M. BYRD</u> DATE: <u>03/11/02</u>						AC MOTOR PERFORMANCE DATA			A36WG1558-R001 DATE ISSUED 09/26/18					

FRAME 364TSC

RPM 3560

S.F. 1.15

ROTOR 418141005XE

HP 60

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 130/65.1

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

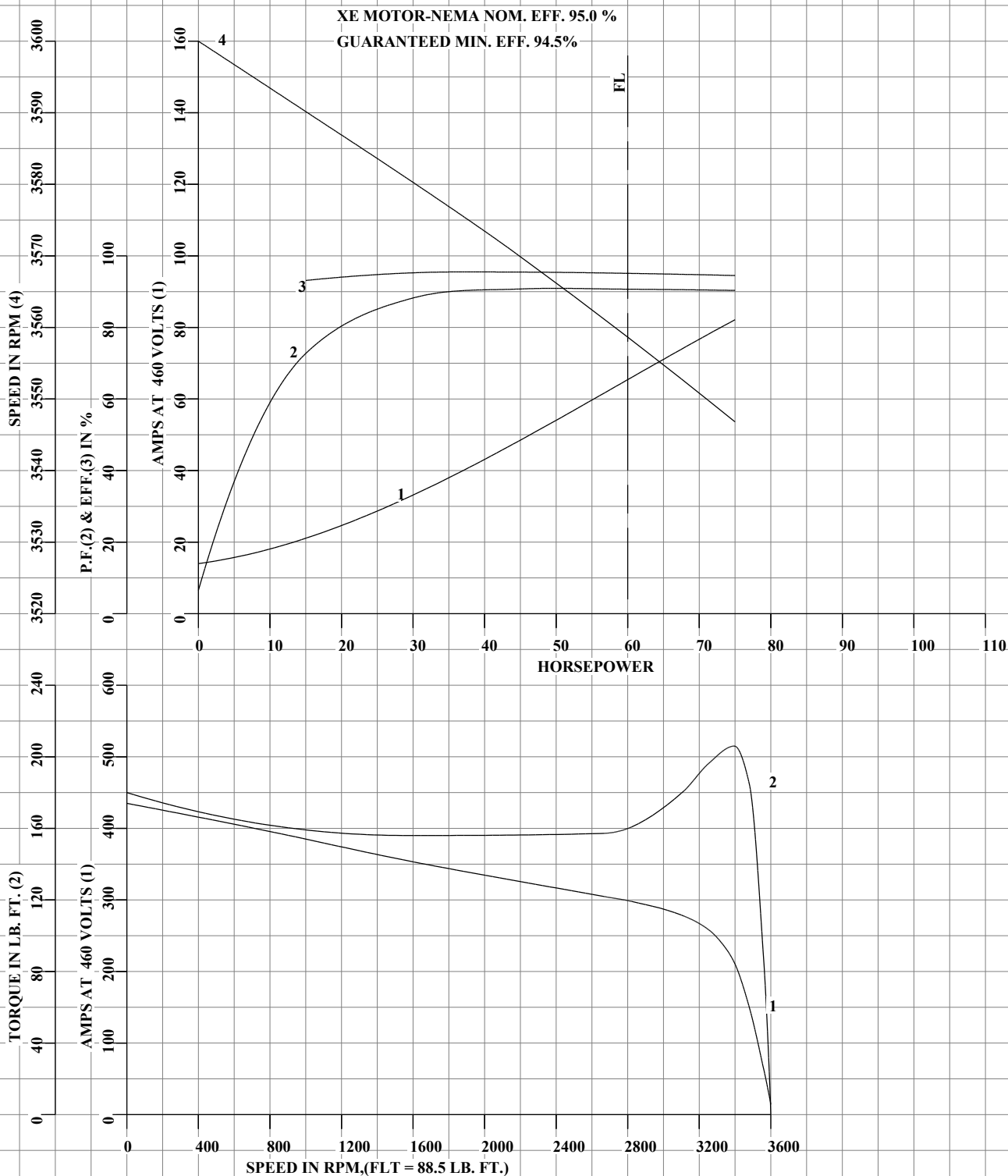
ENCLOSURE TEFC-XEX

STATOR RES. @ 25°C .0254/.101

AMB °C / INSUL 40/B

E/S 491281

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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CHECKED BY: G. R. WEBB
APPROVED BY: D. M. BYRD
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AC MOTOR
PERFORMANCE
DATA

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ISSUE DATE 09/26/18

FRAME 364TSC

RPM 3560

S.F. 1.15

ROTOR 418141005XE

HP 60

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 130/65.1

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

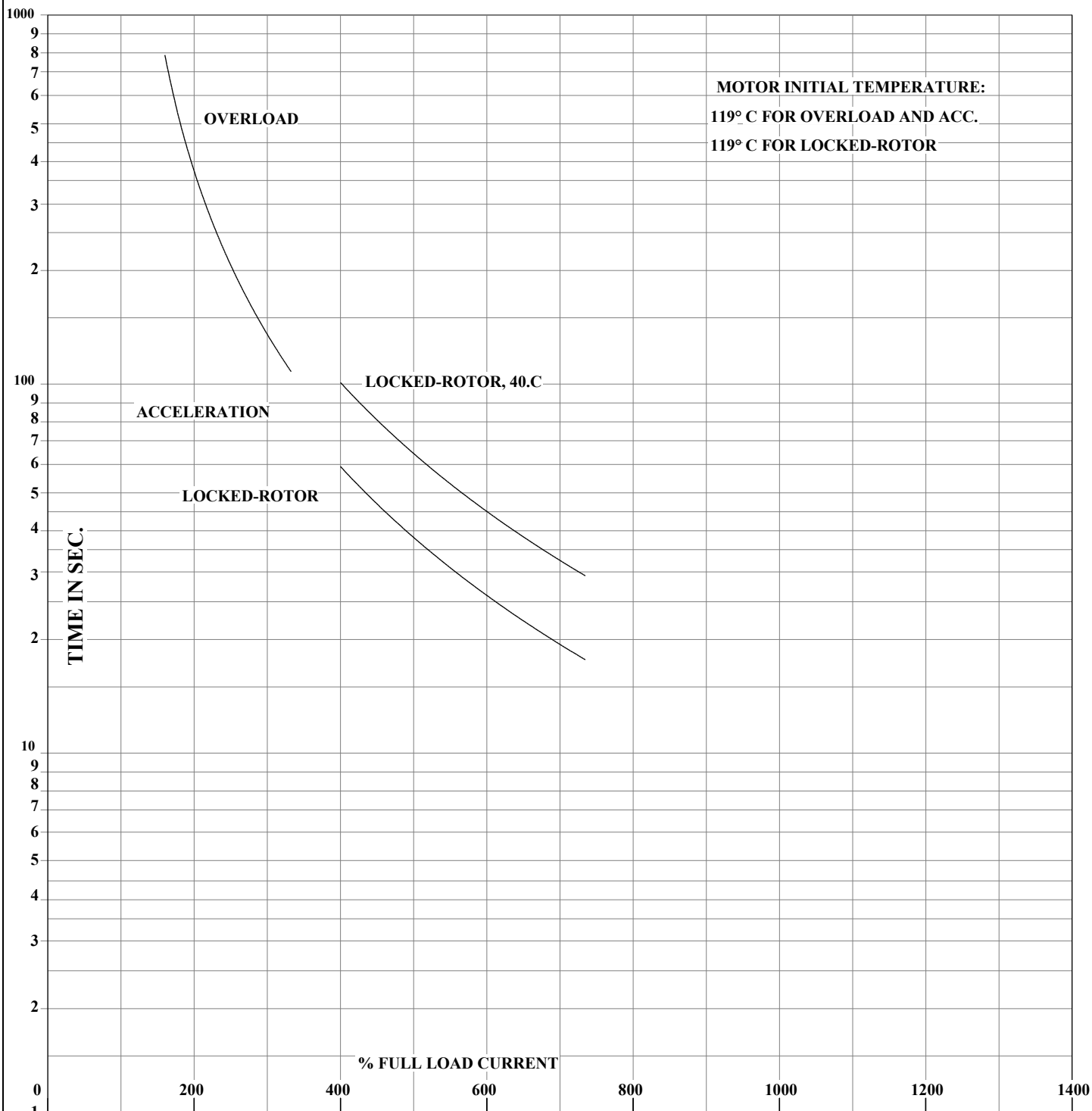
ENCLOSURE TEFC-XEX

STATOR RES. @ 25°C .0254/.101

AMB °C / INSUL 40/B

E/S 491281

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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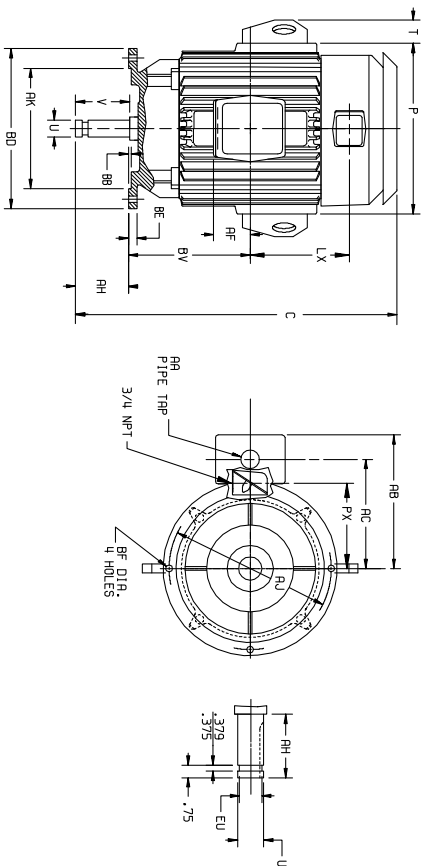
AC MOTOR
PERFORMANCE
DATA

A36WG1558-R001

ISSUE DATE 09/26/18

DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: NEMA VP API THRUST DESIGN - SOLID SHAFT
SQUIREL-CAGE INDUCTION
CAST IRON CONSTRUCTION
COOLING: FAN COOLED
FRAMES 250VP THRU 440VP



DIMENSIONS ARE IN INCHES. SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

FRAME	P	T	AA	AB	AC	AF	BB	BD	BE	BF	AJ	AK	RECOM. BOLT	LX	PX
254VP-256VP	14.00	2.25	1-1/4	10.81	8.61	2.50	.19	10.00	.62	.44	9.12	8.250	3/8 X 1.50	6.31	10.50
284VP-286VP	15.50	2.25	1-1/2	12.62	10.19	3.00	.19	10.00	.69	.44	9.12	8.250	3/8 X 1.50	6.88	11.00
324VP-326VP	17.38	2.25	2	15.44	11.69	3.62	.25	16.50	.88	.69	14.75	13.500	5/8 X 2.00	8.00	12.00
364VP-366VP	20.25	2.25	3	18.00	13.81	4.12	.25	16.50	.88	.69	14.75	13.500	5/8 X 2.00	8.38	13.00
404VP-406VP	22.62	2.50	3	19.25	15.06	4.12	.25	16.50	.94	.69	14.75	13.500	5/8 X 2.00	9.62	14.75
444VP-446VP	25.25	2.50	3	22.19	17.44	6.00	.25	16.50	1.06	.69	14.75	13.500	5/8 X 2.25	11.12	15.56

FRAME	SIZE	C	BV	AH(6)	V	U(2)	EU(5)	SO	LGTH.	WEIGHT
254VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	3.30	330
256VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	3.30	330
284VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	3.30	330
286VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	3.30	330
324VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00	6.10	610
326VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00	6.10	610
364VP	37.45	12.75	4.500	4.50	1.6250	1.250	.375	3.00	6.80	680
366VP	37.45	12.75	4.500	4.50	1.6250	1.250	.375	3.00	6.80	680
404VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00	13.10	1310
406VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00	13.10	1310
444VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	18.80	1880
446VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	18.80	1880

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "U" VARIES UP TO 2.125 DIA. +.0000, -.0005
2.125 AND LARGER +.000, -.001.
- (3) MOTOR WEIGHTS MAY VARY BY 1% DEPENDING UPON RATING.
- (4) "AK" VARIES 250VP - 280VP +.003, -.000
320VP - 440VP +.005, -.000
- (5) "EU" VARIES +.000, -.005
- (6) "AH" VARIES +.030, -.030
- (7) AUXILIARY CONDUIT BOX SUPPLIED ONLY WHEN SPECIFIED.
- IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .001 MAX. T.I.R.
FACE RUNOUT AND 250VP - 440VP .004 MAX. T.I.R.
ECCENTRICITY

FRAME- TYPE- CERTIFIED FOR-
ORDER- ITEM- HP- RPM- PH- HZ VOLTS
SALES ORDER- APPROVED BY- DATE

266-955919

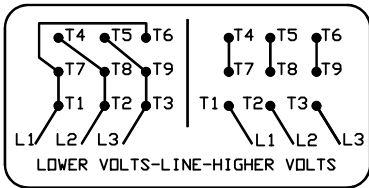
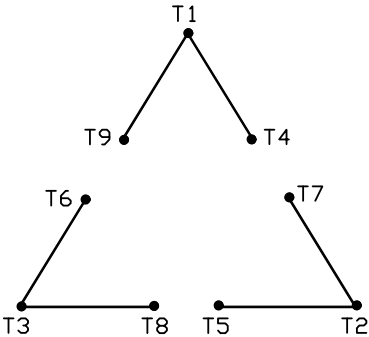
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REMOVED "AG" AND ADD "C" DIMENSION	VERSION: 03	TDR: 000000821455
REV. LTR: C	REVISED: 03:31:17 10/08/2013	BY: RAG/JSSI
FILE: \RAG\00008\703		
MTL: -		

BALDOR
DIM SHT 250-440VP TEFC API THRUST DESIGN CAST IRON CBOX
SH 1 of 1

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



⟨ N. P. 1575-B ⟩

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -	⊙ □	



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED
SH1 of 1

416820-002