

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					
	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%						
ABB		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

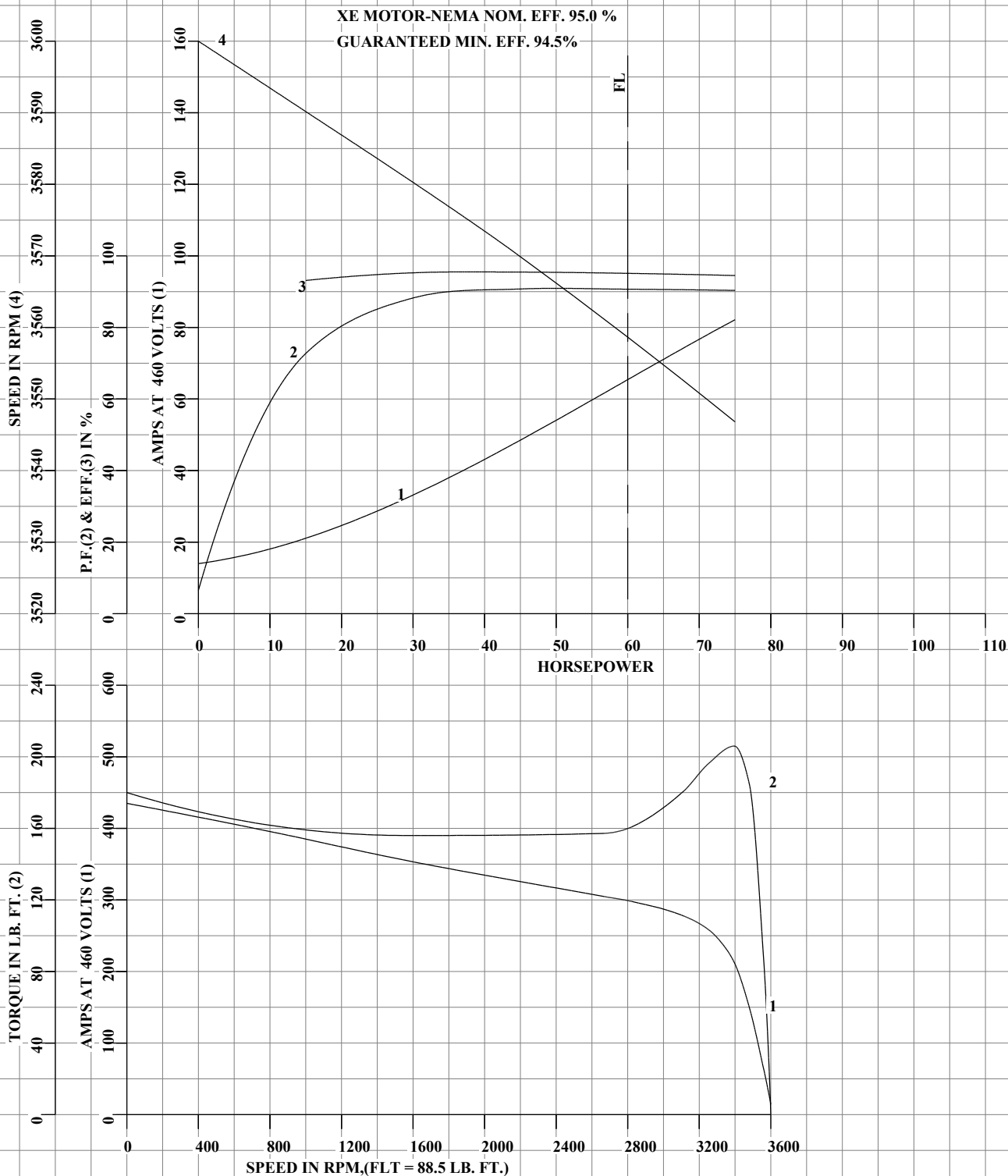
ENCLOSURE TEFC-XEX

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.



DRAWN BY: W. L. SMITH
CHECKED BY: G. R. WEBB
APPROVED BY: D. M. BYRD
DATE: 03/11/02

AC MOTOR
PERFORMANCE
DATA

A36WG1558-R001

ISSUE DATE 09/26/18

FRAME 364TSC

VOLTS 230/460

NEMA DESIGN B

ROTOR 418141005XE

HP 60

AMPS 130/65.1

CODE LETTER G

TEST S.O. TYPICAL DATA

TYPE P

DUTY CONT

ENCLOSURE TEFC-XEX

TEST DATE ---

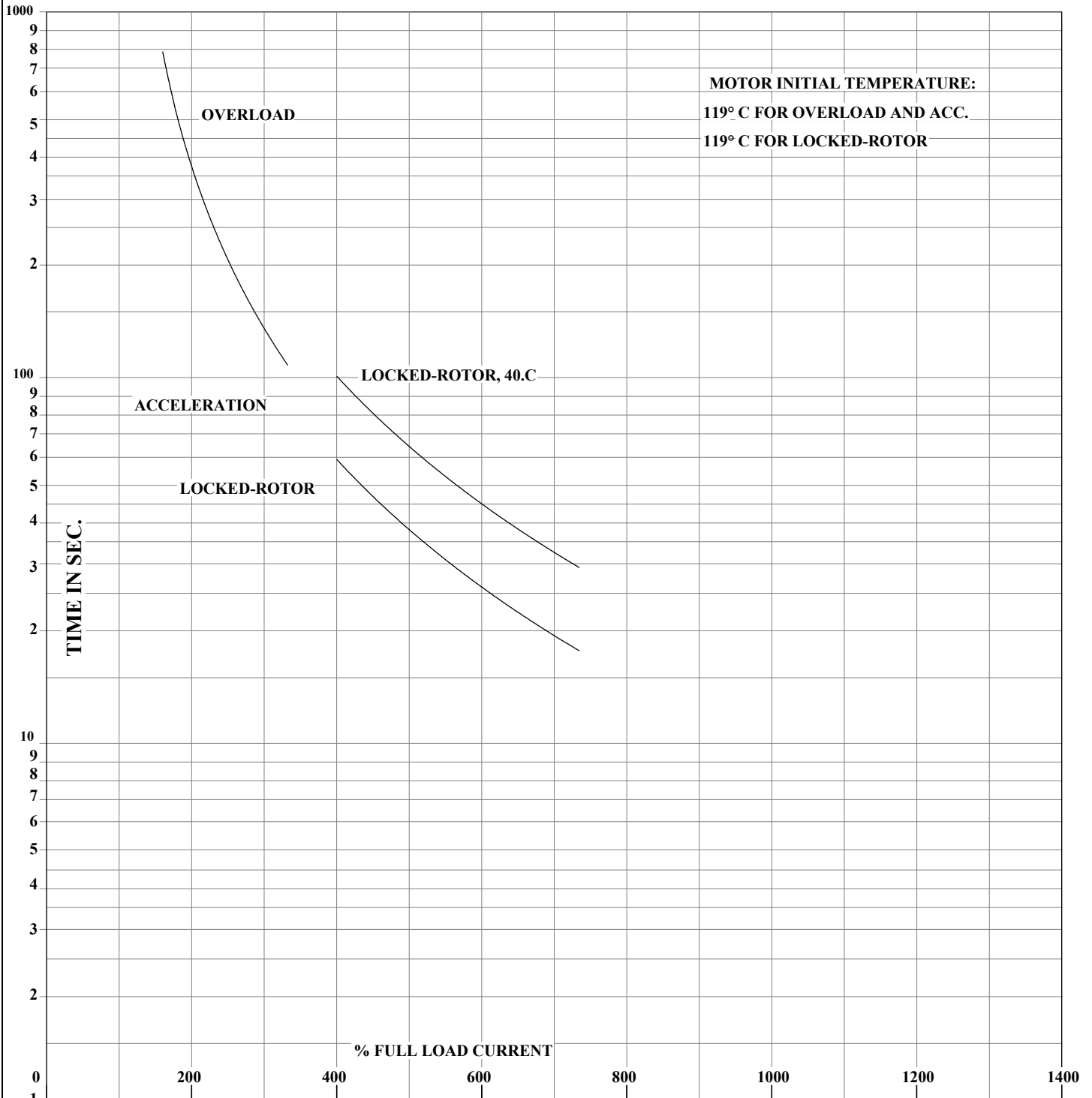
PHASE / HERTZ 3/60

AMB °C / INSUL 40/B

E/S 491281

STATOR RES. @ 25°C .0254/.101

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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APPROVED BY: D. M. BYRD
DATE: 03/11/02

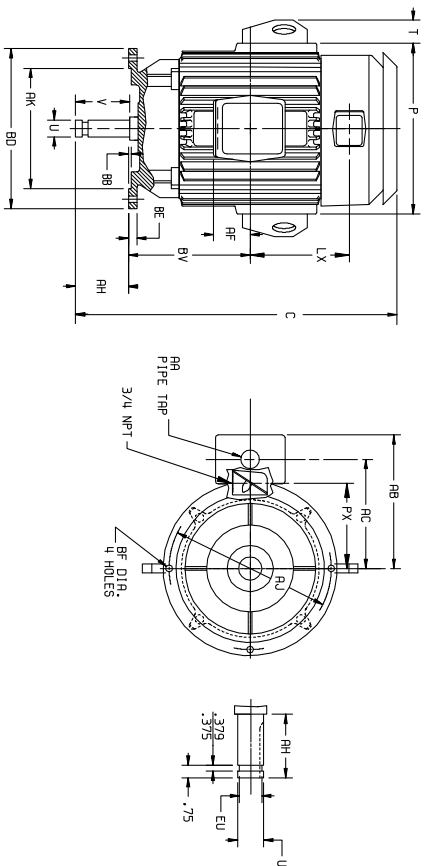
**AC MOTOR
PERFORMANCE
DATA**

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 (LB.)
254VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	3.30	
256VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	3.30	
284VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	4.80	
286VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	4.75	
324VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00	6.10	
326VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00	6.50	
364VP	37.45	12.75	4.500	4.50	1.6250	1.250	.375	3.00	9.80	
366VP	37.45	12.75	4.500	4.50	1.6250	1.250	.375	3.00	9.80	
404VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00	13.10	
406VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00	13.10	
444VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	18.80	
446VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	18.80	

- (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 15% 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

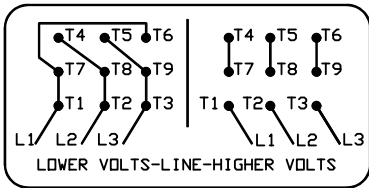
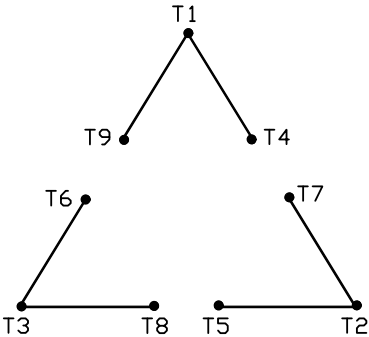
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

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)

416820-002

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