

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						

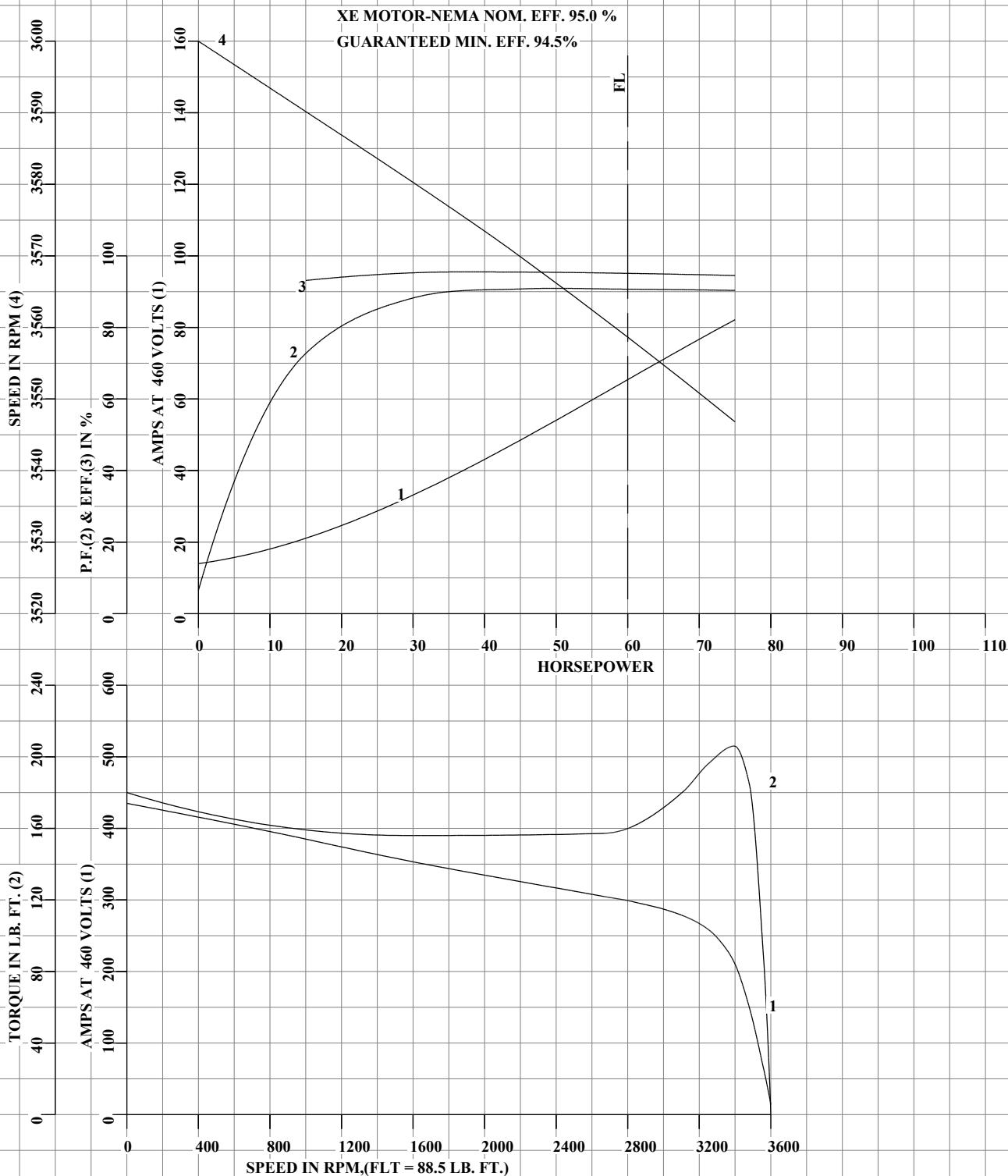
Parts List

Part number	Description	Quantity
SA303151	SA A36-6890-1558	1.000 ea
RA290268	RA A36-6890-1558	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000FF	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP3238	SS CP XEX SEVERE DUTY MAIN NP,CURUS EEV	1.000 ea
418185012FL	B/BRG ANGULAR SET - 360	1.000 pr
035051010AA	BBLCW W-10	1.000 ea
085922097A	BRKT 360 087793066WCC	1.000 ea
415072001B	CLAMP	1.000 ea
078559035AA	F/C 360 078559035WCC	1.000 ea
034180008FA	KEY 3/8X3/8X1L - 320	1.000 ea
412118006A	DRAIN	1.000 ea
702674001A	FAN 250	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018016DK	HHCS 1/2-13X2L PLTD	4.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
032018030CK	HHCS 3/8-16X3-3/4 PLATED	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
415045002H	SLGR	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034017014AB	LCKW 3/8 STD. PLATED	3.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034530016BC	P/NIP 1/4X2 GALV. - 320	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
089495002A	BRKT 360 089495001WCA	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea

032018030CK	HHCS 3/8-16X3-3/4 PLATED	3.000 ea
415045002E	SLGR	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	3.000 ea
412118006A	DRAIN	1.000 ea
410700004F	WSHR	1.000 ea
076708000BB	CONDUIT BOX-360	1.000 ea
065776000C	GASKET,MAIN CBOX, 320-400	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
067053000B	GASK 320-400	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
032018022CK	HHCS 3/8-16X2-3/4 PLTD	4.000 ea
405851012AN	SPACE	4.000 ea
702641041A	D/CVR 360 SUB PAINT	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
406055001B	GRFTG - XP	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
609013011C	LFT/P - 360 - LIFTING PLATE	2.000 ea
032018012EK	HHCS 5/8-11X1-1/2L PLTD. - SCREW	4.000 ea
034017018AB	5/8 MED LOCK WASHER ZP (034017018AF)	4.000 ea
034180024FA	KEY 3/8X3/8X3 L	1.000 ea
034017018AB	5/8 MED LOCK WASHER ZP (034017018AF)	2.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
033102018AG	NUT 5/8-11 PLATED	2.000 ea
032018012EK	HHCS 5/8-11X1-1/2L PLTD. - SCREW	2.000 ea
604797064C	2"X4"-24"	2.000 ea
604797064C	2"X4"-24"	1.000 ea

604797064C	2"X4"-24"	1.000 ea
604797064C	2"X4"-24"	1.000 ea
415038028A	BLOCK,SHIPPING	1.000 ea
415038028B	BLOCK,SHIPPING	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

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%											
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				



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 ---

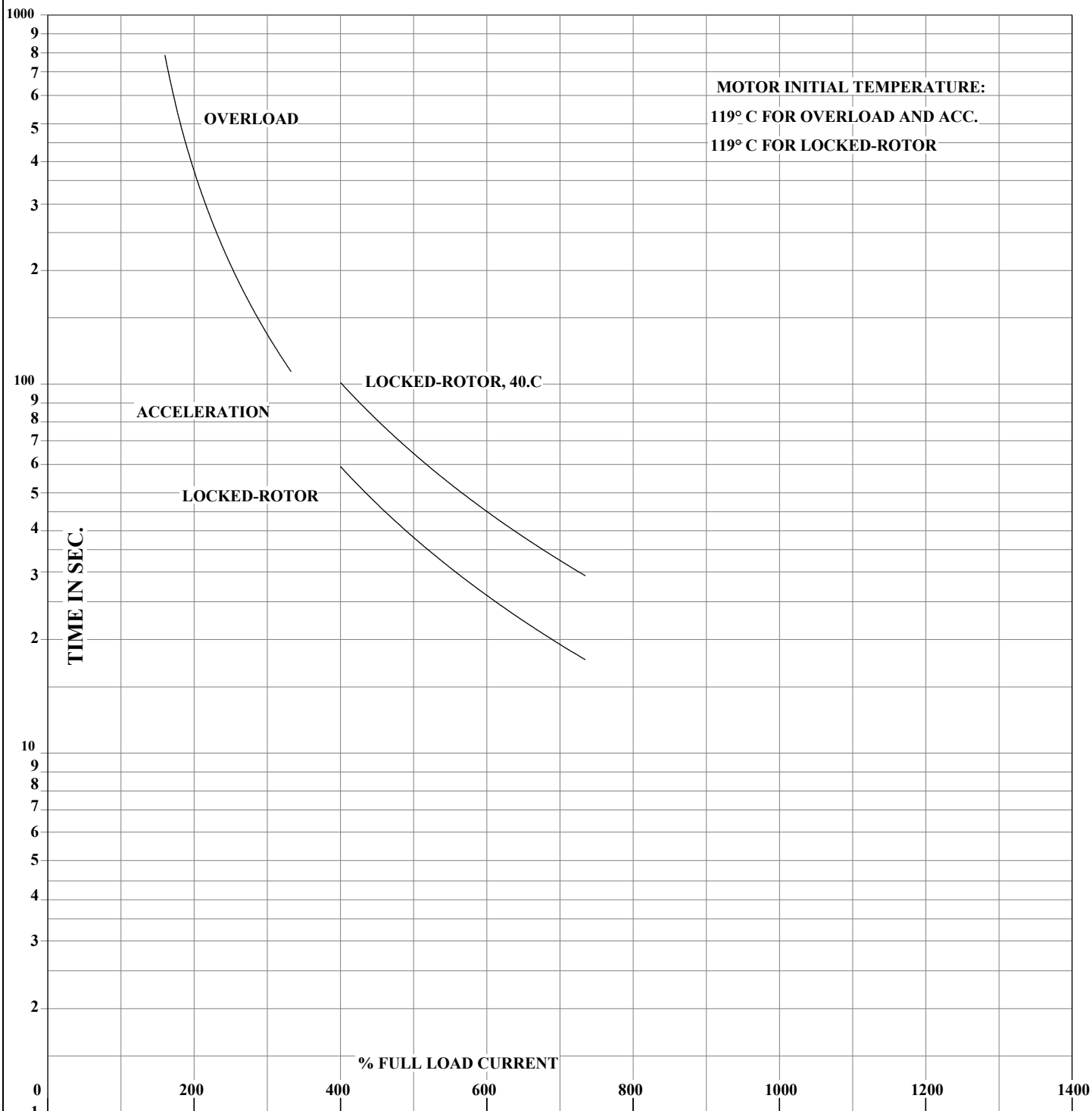
PHASE / HERTZ 3/60

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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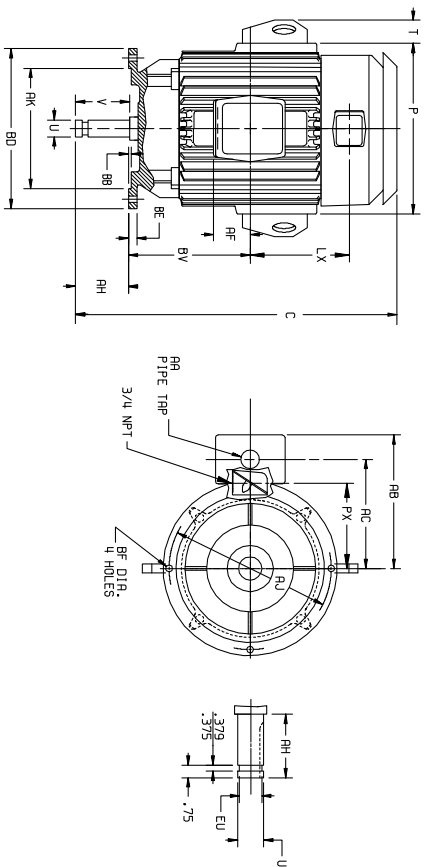
AC MOTOR
PERFORMANCE
DATA

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ISSUE DATE 09/26/18

DUTY MASTER ALTERNATING CURRENT MOTORS

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



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

FRAME	P	T	CAST IRON TERMINAL BOX										(4)			
	AA	AB	AC	AF	BB	BD	BE	BF	AU	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-365VP	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-405VP	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-445VP	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	C	BV	AH(6)	V	SHAFT AND KEY			WEIGHT
SIZE				W(2)	EU(5)	SO	LGTH	(LB)(1)
254VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25
256VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25
284VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25
286VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25
324VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00
326VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00
364VP	37.45	12.75	4.500	4.50	1.6250	1.250	.375	3.00
365VP	37.45	12.75	4.500	4.50	1.6250	1.250	.375	3.00
404VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00
405VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00
444VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00
445VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00

- (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

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

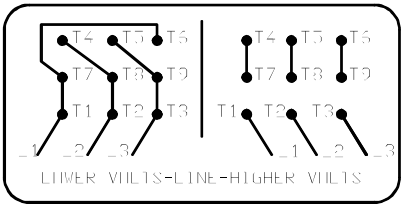
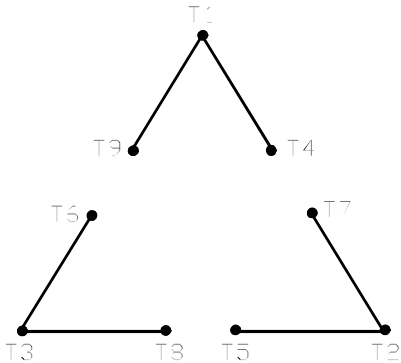
REV. DESC: REMOVED "AG" AND ADD "C" DIMENSION	VERSION: 03	TDR: 000000821455	BALDOR DIM SHT 250-440VP TEFC API THRUST DESIGN CAST IRON CBOX SH 1 of 1
REV. LTR: C	FILE: \RAG\00008\703	REVISED: 03:31:17 10/08/2013	
MTL: -	BY: RAG/SJS1		

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

266-955919

416820-002

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002