ABB BALDOR RELIANCE

Customer information packet

VPECP4310T

60HP, 3560RPM, 3PH, 60HZ, 364VP, TEFC, V1
Class - None
Division - Not Applicable

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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									

S/O	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

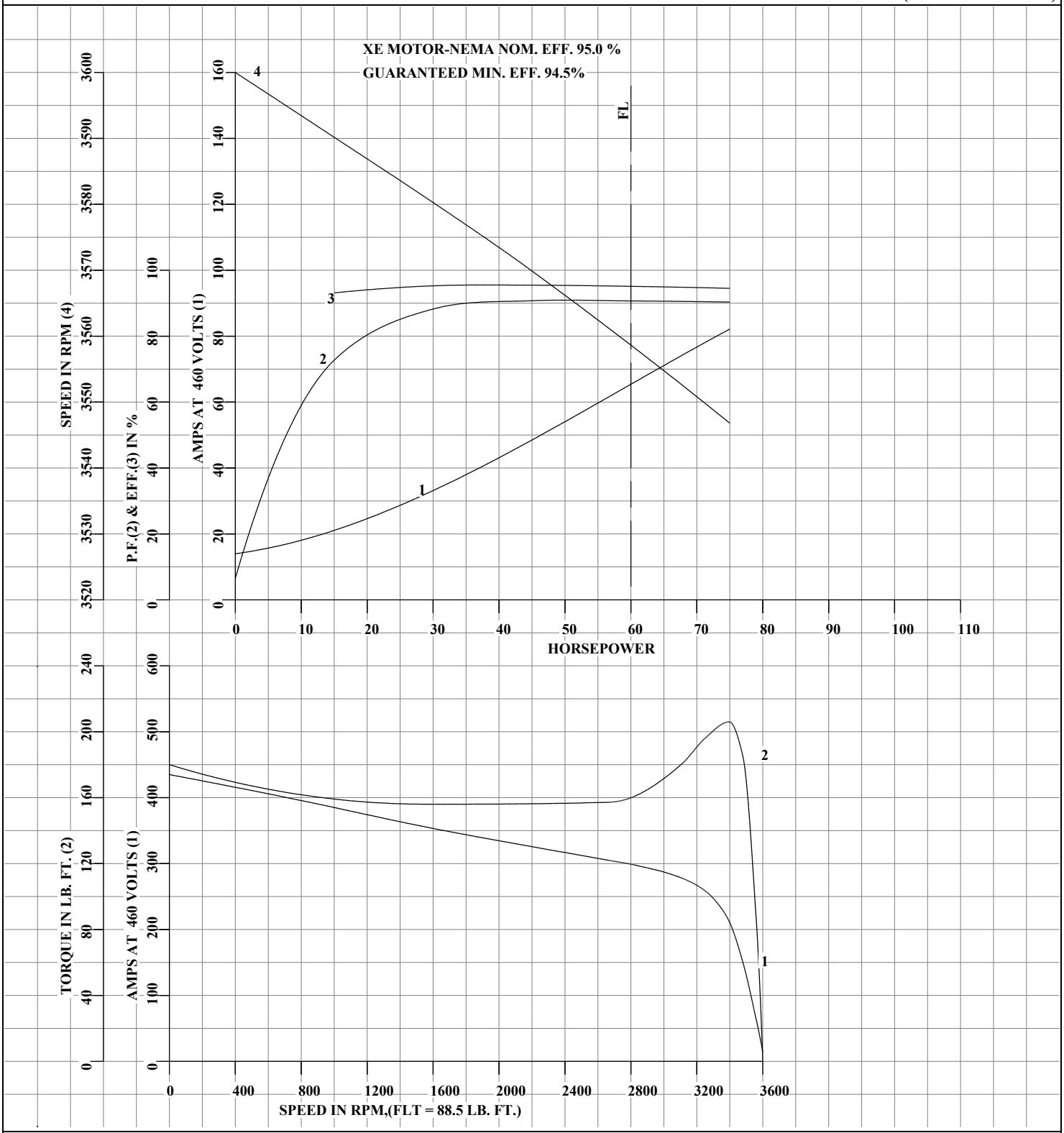
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	203	180	435
PULL UP	1565	176	156	355
BREAKDOWN	3397	233	206	212
FULL LOAD	3559	100	88.5	65.1

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: W. L. SMITH CHECKED BY: G. R. WEBB APPROVED BY: D. M. BYRD DATE: 03/11/02	AC MOTOR PERFORMANCE DATA	A36WG1558-R001 DATE ISSUED 09/26/18

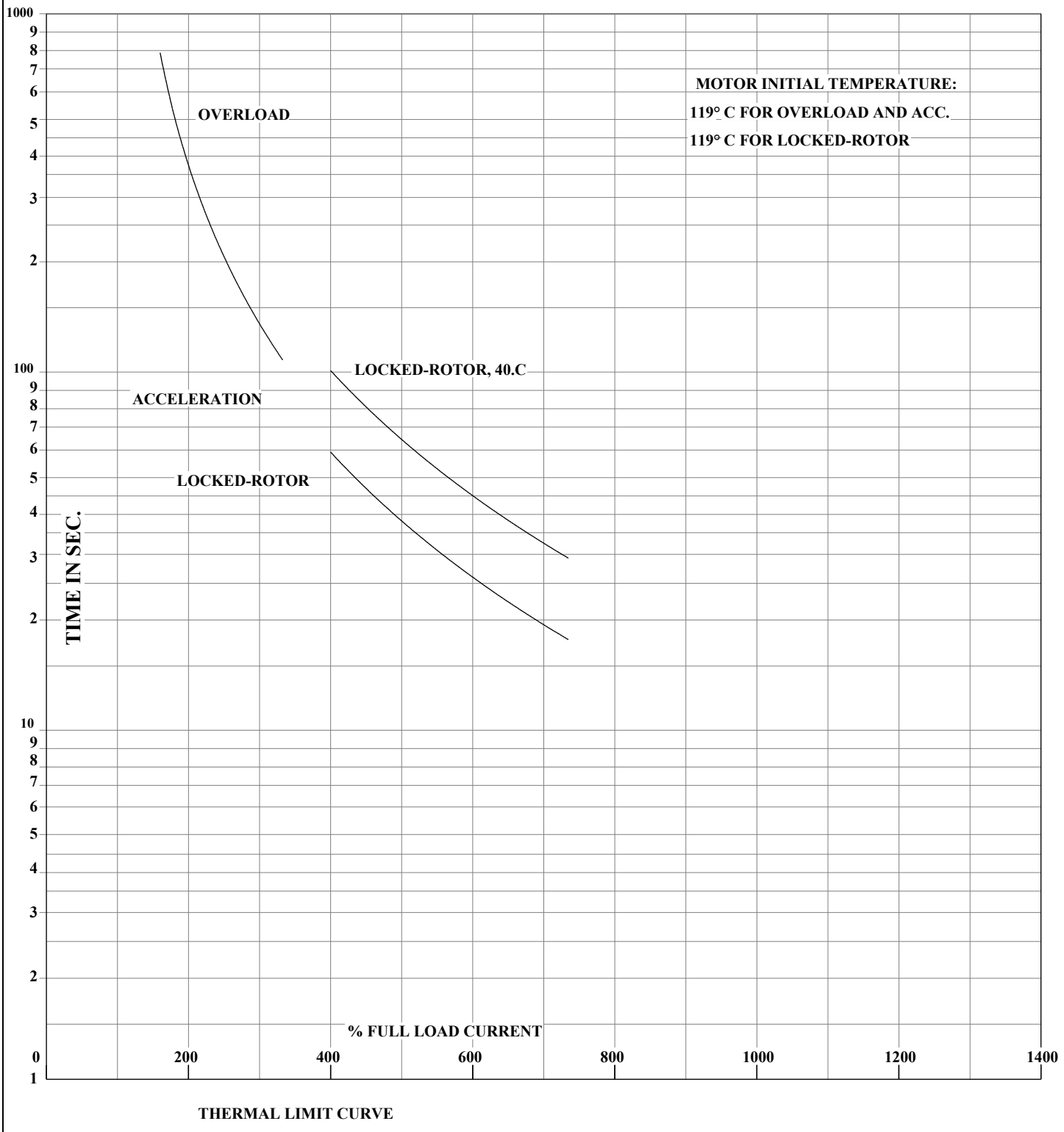
FRAME 364TSC	RPM 3560	S.F. 1.15	ROTOR 418141005XE
HP 60	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 130/65.1	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC-XEX	STATOR RES. @ 25°C .0254/.101
	AMB °C / INSUL 40/B	E/S 491281	OHMS (BETWEEN LINES)



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

ABB	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	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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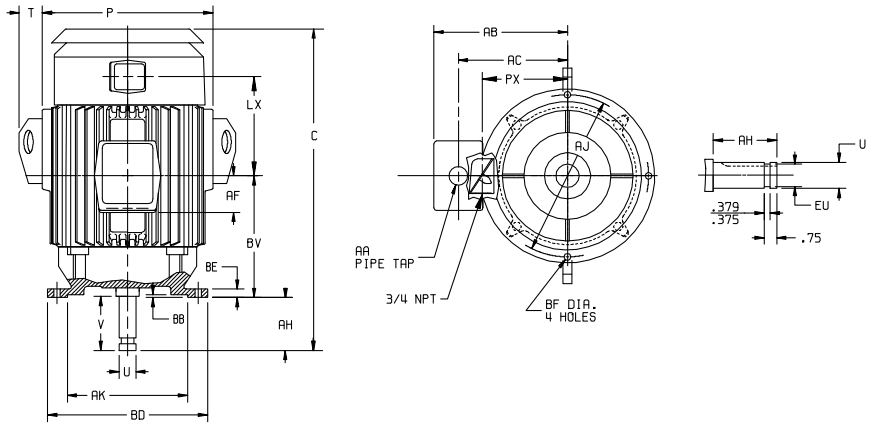
616555–992

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL–CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED — COOLING: FAN COOLED
MOUNTING: NEMA VP API THRUST DESIGN – SOLID SHAFT

FRAMES 250VP THRU 440VP



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

FRAME	P	T	CAST IRON TERMINAL BOX AA	AB	AC	AF	BB	BD	BE	BF	AJ	(4) AK	RECOM. BOLT	LX	PX
254VP–256VP	14.00	2.25	1–1/4	10.81	8.81	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
(1)															

FRAME SIZE	C	BV	AH(6)	SHAFT AND KEY V	U(2)	EU(5)	SQ.	LGTH.	WEIGHT LBS. (3)
254VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	330
256VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	340
284VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	460
286VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	475
324VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00	610
326VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00	650
364VP	37.25	12.75	4.500	4.50	1.6250	1.250	.375	3.00	860
365VP	37.25	12.75	4.500	4.50	1.6250	1.250	.375	3.00	980
404VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00	1310
405VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00	1310
444VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	1690
445VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	1890
(1)									

(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 _____

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

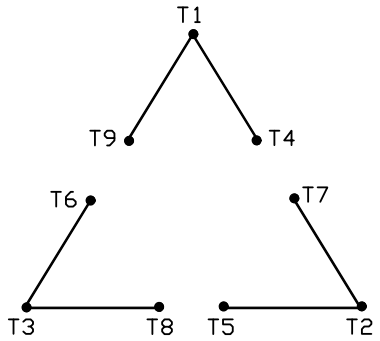
BALDOR

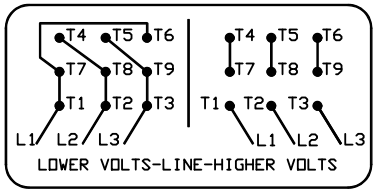
REV. DESC: REMOVED "AG" AND ADD "C" DIMENSION		TDR: 000000821455	DIM SHT 250–440VP TEFC API THRUST DESIGN CAST IRON CBOX
REV. LTR: C	VERSION: 03		
FILE: \RAG\00008\703	REVISED: 03:31:17 10/08/2013	BY: RAG:ISS1	SH 1 of 1
MTL: –			

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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: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002