ABB BALDOR RELIANCE

Customer information packet

VPECP4314T

60HP, 1780RPM, 3PH, 60HZ, 364VP, A3658M, TEFC
Class - None
Division - Division II

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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	Division II
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	10-60
Current @ Voltage	140.000 A @ 230.0 V
	152.000 A @ 208.0 V
	70.000 A @ 460.0 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	70.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4075
Layout	616555-992
Eff. date	02-13-2025
CD Diagram	CD0180
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	06-06-2019

IP Rating	IP55
KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3658M
Mounting Arrangement	V1
Number of Poles	4
Overall Length	37.25 IN
Power Factor	84
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	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

Nameplate

NP4033LUA

CAT #	VPECP4314T			**SER**				**CC**	010A										
SPEC	A36-6173-4075			**RATING**	40C AMB-CONT														
HZ	**VOLTS**		**AMPS**		**RPM**	**HP**	**CODE**		**SF**	**DES**	**PF**		**NEMA NOM. EFF**						
60	230/460		140/70		1780	60	G		1.15	B	84	%	95	%					
												%		%					
PH	3	**CL**	F	**MAX RPM**	2700		**MAX CORR KVAR**	15											
BRG	**DE**	6313	**ODE**	7310	**ENCL**	TEFC	**FR**	364VP		**IP**	55								
GREASE	POLYREX EM						**MTR WT**	910	**LBS**										
		CL I DIV 2 GRPS A,B,C,D			**CL I ZONE 2 GRPS**			**IIA,IIB,IIC**		**TEMP T**	200	**C**							
INV READY	**CT**	15-60	**HZ**	4:1	**VT**	3-60	**HZ**	20:1	**CHP**	60-90	**HZ**	1.5:1							
INV TEMP CL	200	**C**	**USABLE AT**	50HZ 50HP 190/380V 138/69A					SF1.0										

AC induction motor performance data

Record #72794 - Typical performance - not guaranteed values

Winding	A36WG4075
Type	A3658M
Enclosure	TEFC

Nameplate data			
Rated Output			60
Volts			230/460
Full Load Amps			140/70
R.P.M.			1780
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	95	Power Factor	84
Duty			CONT
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection	
Full Load Torque	176.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	422 LB-FT
Pull-up Torque	276 LB-FT
Locked-rotor Torque	352 LB-FT
Starting Current	462 A
No-load Current	24.8
Line-line Res. @ 25°C	0.10816 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	32.3
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	51	73	81	84	86	85	85
Efficiency	0	92.6	95.1	95.4	95.2	94.6	93.8	94.8
Speed	1798.9	1796.4	1792.4	1788	1783.7	1778.3	1772.3	1780
Line amperes	24.8	29.7	40.7	54.4	69.7	86.6	105	79.8

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

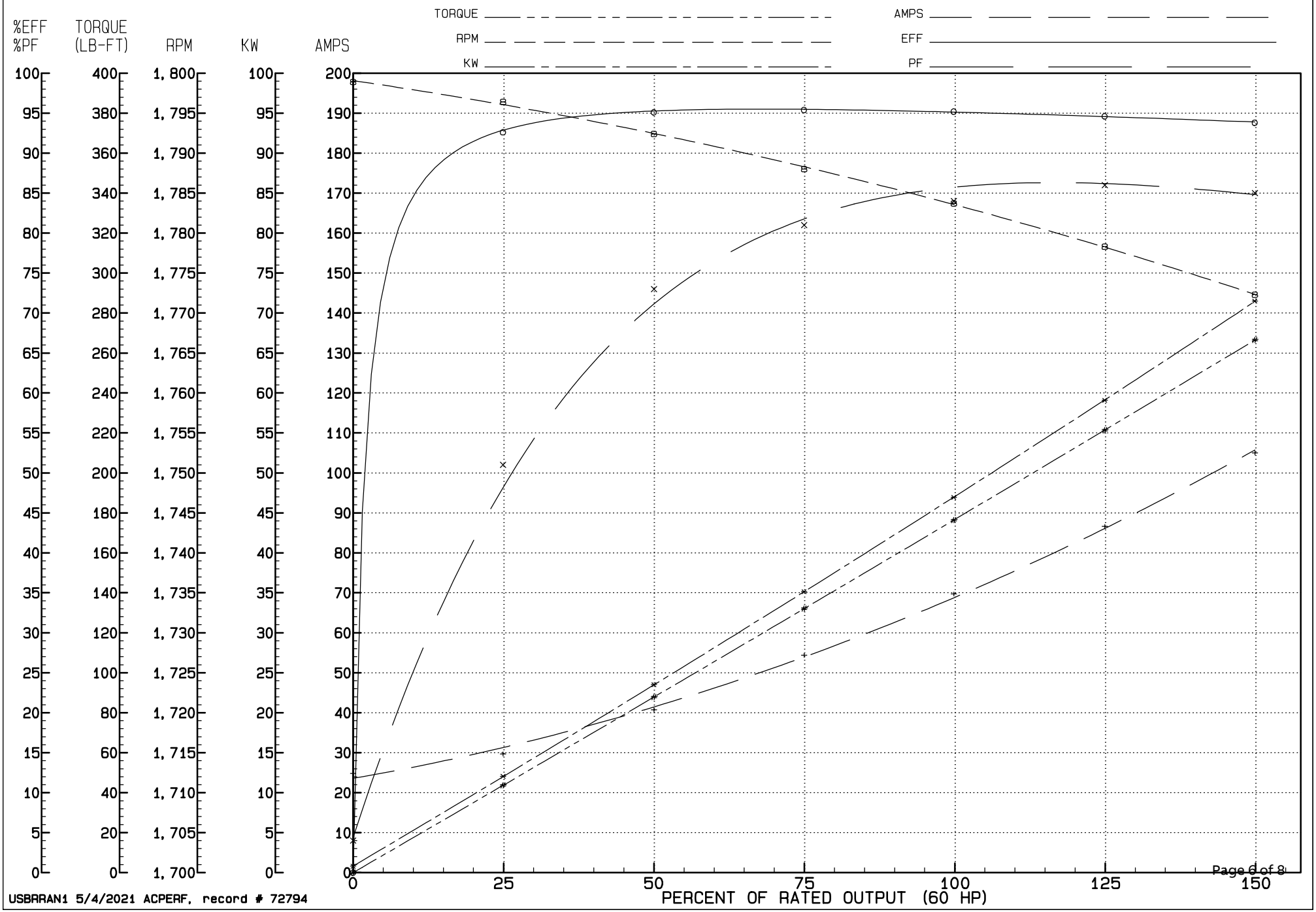
VPECP4314T - 60HP, 1780RPM, 3PH, 60HZ, 364VP, A3658M, TEFC

WINDING # A36WG4075

REVIEW

60 HP 3 PH 60 HZ 1780 RPM 460 V A3658M

TORQUES (LB-FT): PO=422.00 PU=276.00 LR=352.00 LRA=462.00



USBRRAN1 5/4/2021 ACPERF, record # 72794

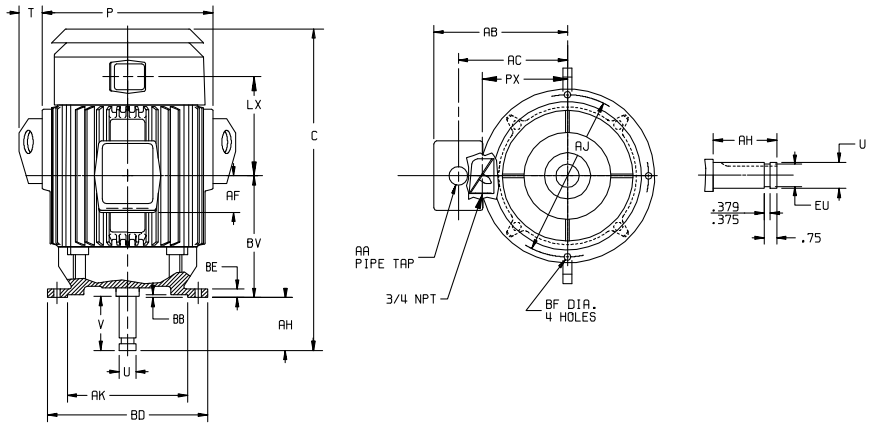
616555-992

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 ECCENTRICITY 250VP – 440VP .004 MAX. T.I.R.

FRAME–_____ TYPE–_____ CERTIFIED FOR– _____

ORDER–_____ ITEM–_____ HP–_____ RPM–_____ PH– _____ HZ _____ VOLTS_____

SALES ORDER– _____ APPROVED BY–_____ DATE _____

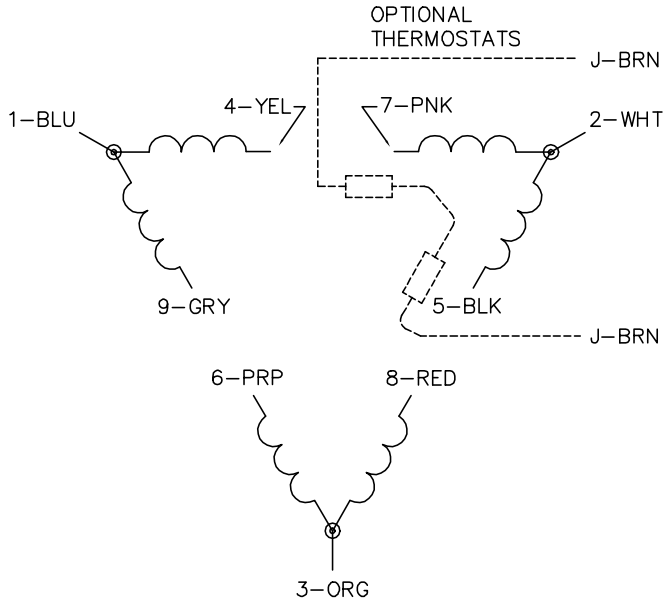
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

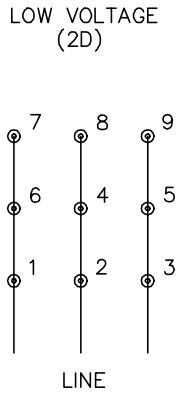
BALDOR

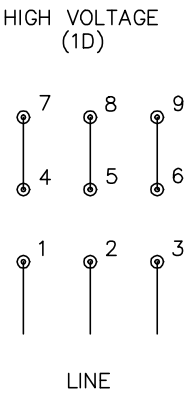
REV. DESC: REMOVED "AG" AND ADD "C" DIMENSION	VERSION: 03	TDR: 000000821455	DIM SHT 250–440VP TEFC API THRUST DESIGN CAST IRON CBOX
REV. LTR: C	REVISED: 03:31:17 10/08/2013	BY: RAGJSS1	SH 1 of 1
FILE: \RAG\00008\703			
MTL: –			

616555-992

CD0180







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1