



Customer information packet

VPECP4314T

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

Class - None

Division - Division II

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

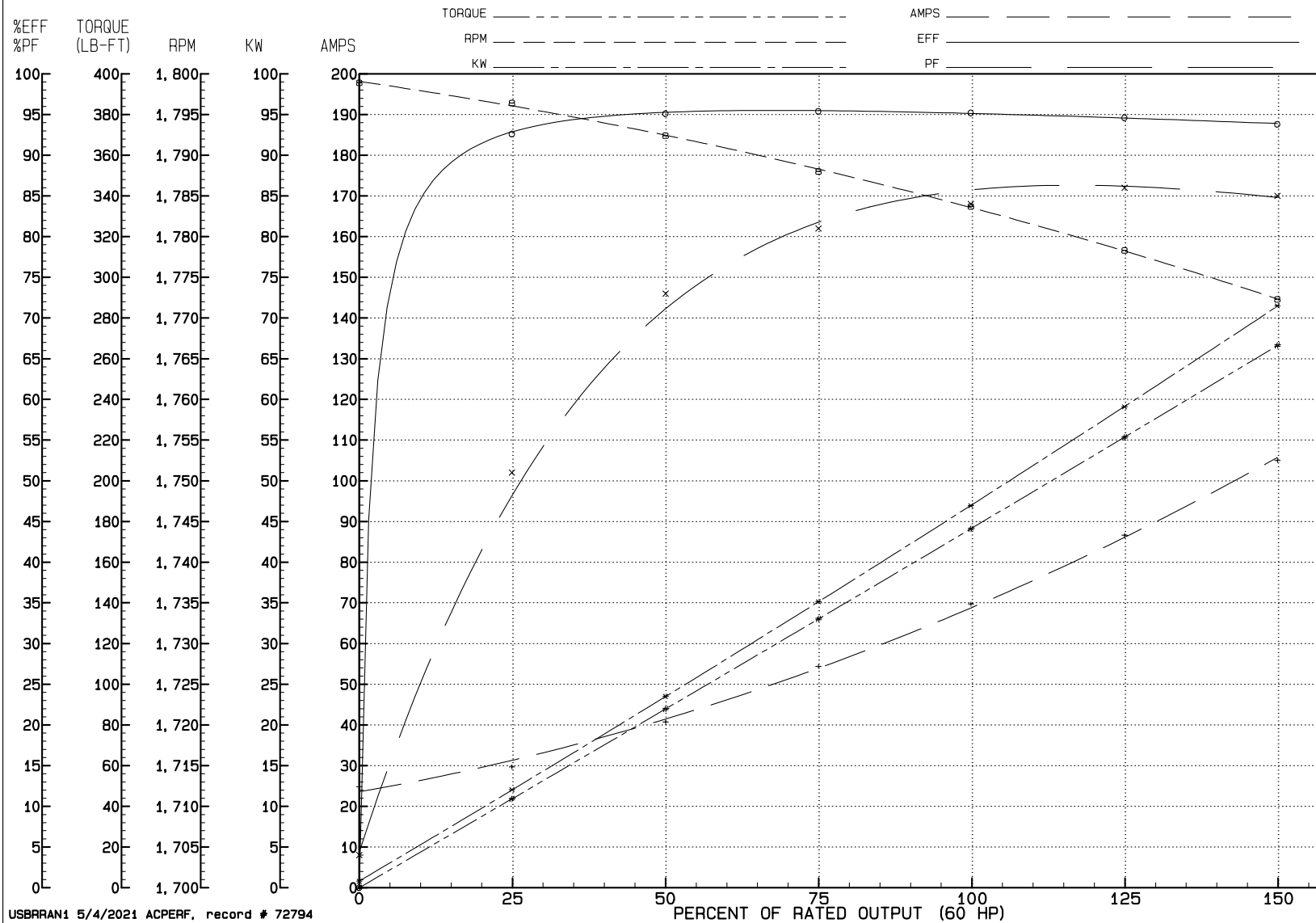
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	51	73	81	84	86	85	85
Efficiency	0	92.6	95.1	95.4	95.2	94.6	93.8	94.8
Speed	1798.9	1796.4	1792.4	1788	1783.7	1778.3	1772.3	1780
Line amperes	24.8	29.7	40.7	54.4	69.7	86.6	105	79.8

REVIEW

WINDING # A36WG4075

60 HP 3 PH 60 HZ 1780 RPM 460 V A3658M

TORQUES (LB-FT): P0=422.00 PU=276.00 LR=352.00 LRA=462.00



DUTY MASTER ALTERNATING CURRENT MOTORS

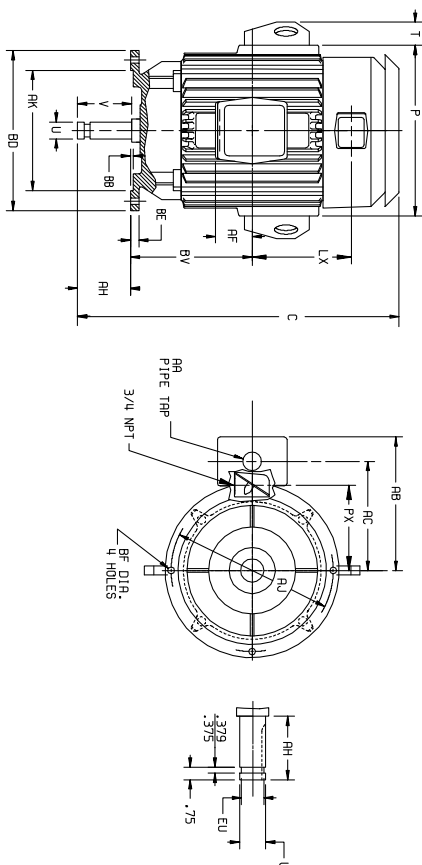
SQUIREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

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

	P	T	AA	IRON	TERMINAL	BOX	AB	AC	BB	BD	BE	BF	AJ	(4)	RECOM.	BOLT	LX	PX
FRAME																		
25A0-28B0	14.00	9.25	1/1	410	811	19	10.00				.62	.44	9.12	8.290	3/8 X 1.50	6.51	10.50	
25A0-28B0	14.00	9.25	1/1	410	811	19	10.00				.62	.44	9.12	8.290	3/8 X 1.50	6.51	10.50	
32A0-33B0	17.38	12.50	1/2	410	811	6.62	12.50				.89	.69	14.51	3.500	5/8 X 2.00	8.00	12.50	
36A0-36S0	22.62	12.50		19.00	13.81	4.12	23	16.50			.89	.69	14.51	3.500	5/8 X 2.00	8.58	13.00	
40A0V-40S0	20.62	8.25		19.00	15.06	4.12	23	16.50			.94	.69	14.51	3.500	5/8 X 2.00	9.62	14.00	
44A0V-44S0	25.25	2.50	3	22.19	17.44	6.00	25	16.50	1.06		.69	.49	14.75	3.500	5/8 X 2.25	11.12	15.56	

FRAME SIZE	SHAFT AND KEY								WEIGHT, LB. (3)
	C	BV	AH(6)	V	U(2)	EU(5)	SO.	LGTH.	
254P	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	330
254P	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	340
284P	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	460
285P	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	470
324P	34.60	11.75	4.500	4.50	1.6250	1.250	.375	5.00	610
324P	34.60	11.75	4.500	4.50	1.6250	1.250	.375	5.00	650
364P	38.26	12.75	4.500	4.50	1.6250	1.250	.375	5.00	860
365P	37.25	12.75	4.500	4.50	1.6250	1.250	.375	5.00	980
404P	41.75	14.62	4.500	4.50	1.6250	1.250	.375	5.00	1310
405P	41.75	14.62	4.500	4.50	1.6250	1.250	.375	5.00	1310
444P	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	1690
445P	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	1890

- | | | |
|-----|--|--|
| (1) | SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE. | IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY. |
| (2) | "U" VARIES — UP TO 2.125 DIA. +.0000, —.0005
2.125 AND LARGER +.000, —.001. | MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .001 MAX. T.I.R. |
| (3) | MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING. | FACE RUNOUT AND 250VP — 440VP .004 MAX. T.I.R. ECCENTRICITY |
| (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. | |

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

616555-992

616555-992

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

REV. DESC: REMOVED "AG" AND ADD "C" DIMENSION		
REV. LTR: C	VERSION: 03	TDR: 00000821455
FILE: \RAG\00008\703	REVISED: 03:31:17 10/08/2013	BY: RAGJSS1
MTL: -		

BALDOR

DIM SHT 250-440VP TEFC API THRUST DESIGN CAST IRON CBOX

SH 1 of 1

CD0180

LOW VOLTAGE
(2D)HIGH VOLTAGE
(1D)

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: ENBRI0

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1