

ABB BALDOR RELIANCE III

Customer information packet

VPECP4316T

75HP, 1785RPM, 3PH, 60HZ, 365VP, A36070M, TEFC

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	365VP
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	75.000 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	15-60
Current @ Voltage	171.000 A @ 230.0 V 188.000 A @ 208.0 V 85.600 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	85.6 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4076
Layout	616555-992
Eff. date	02-13-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	06-05-2019

IP Rating	IP55
KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36070M
Mounting Arrangement	V1
Number of Poles	4
Overall Length	37.25 IN
Power Factor	86
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

Nameplate

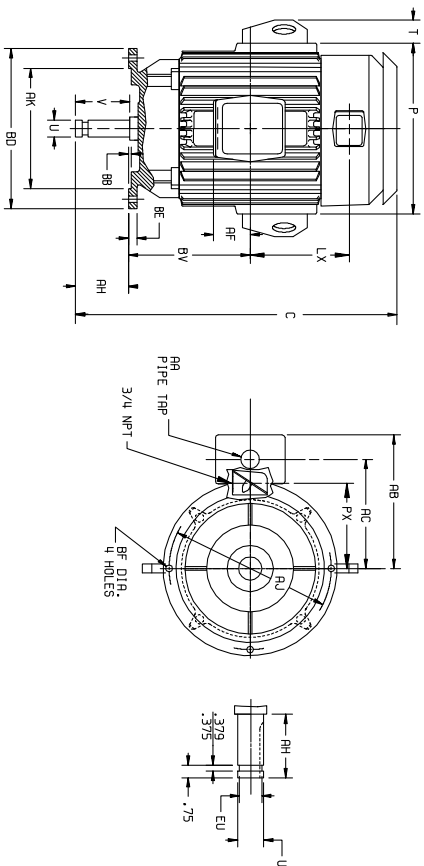
NP2496L	
MOBIL POLYREX EM	
IP55 CONSTRUCTION	

NP3238

CAT NO	VPECP4316T			SPEC NO.		A36-7268-4076							
HP	75	AMPS	172/86		VOLTS		230/460		DESIGN	B			
FRAME	365VP	RPM	1785	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			86	NEMA NOM EFFICIENCY			95.4		
3/4 LOAD EFF.	95.8		MAX CORR KVAR			15.8		GUARANTEED EFFICIENCY			94.5		
TEMP CODE	T3	TEMP =		200									
CHP HZ	60-90		CT HZ	15-60		VT HZ	0-60						
INVERTER-TEMP-CODE	T3												
SER.NO.				MOTOR WEIGHT									

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-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	SIZE	C	BV	AH(6)	V	U(2)	EU(5)	SO	LGTH.	WEIGHT
254VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	330	330
256VP	28.10	9.44	2.750	2.75	1.1250	.875	.250	1.25	330	330
284VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	475	475
286VP	30.66	10.44	2.750	2.75	1.1250	.875	.250	1.25	475	475
324VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00	610	610
326VP	34.60	11.75	4.500	4.50	1.6250	1.250	.375	3.00	610	610
364VP	37.45	12.75	4.500	4.50	1.6250	1.250	.375	3.00	980	980
365VP	37.45	12.75	4.500	4.50	1.6250	1.250	.375	3.00	980	980
404VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00	1310	1310
405VP	41.75	14.62	4.500	4.50	1.6250	1.250	.375	3.00	1310	1310
444VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	1880	1880
445VP	47.57	17.50	4.500	4.50	2.125	1.750	.500	3.00	1880	1880

- (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 1% 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

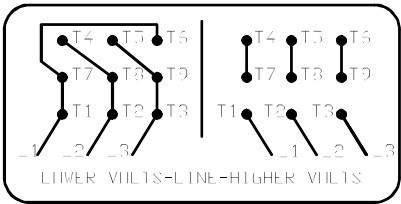
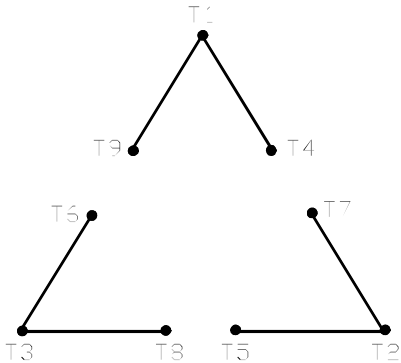
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REMOVED "AG" AND ADD "C" DIMENSION	VERSION: 03	TDR: 000000821455
REV. LTR: C	REVISED: 03:31:17 10/08/2013	BY: RAG/SJS1
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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)

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