ABB BALDOR RELIANCE

Customer information packet

VPECP4316T

75HP, 1785RPM, 3PH, 60HZ, 365VP, A36070M, TEFC
Class - None
Division - Division II

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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**								

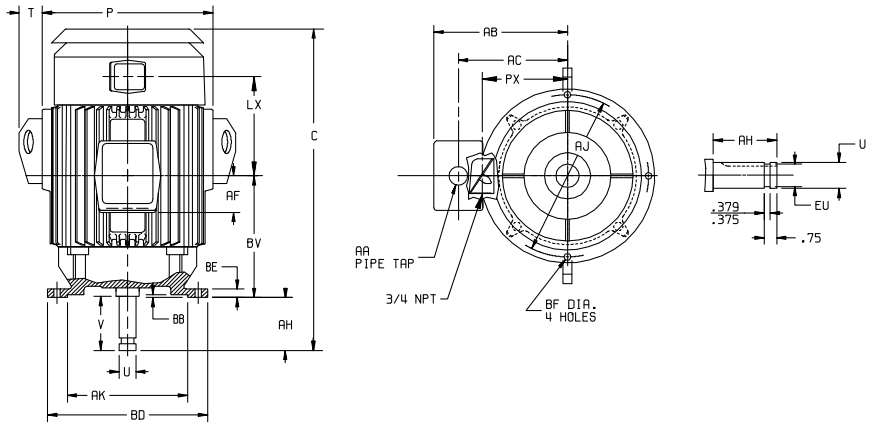
616555-992

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.

REV. DESC: REMOVED "AG" AND ADD "C" DIMENSION		TDR: 000000821455
REV. LTR: C	VERSION: 03	
FILE: \RAG\00008\703	REVISED: 03:31:17 10/08/2013	BY: RAG\SS1
MTL: –		

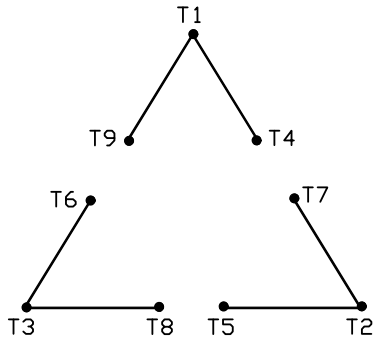
BALDOR

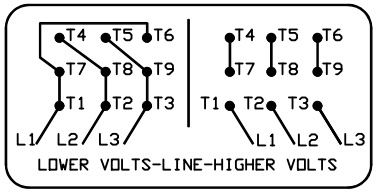
DIM SHT 250–440VP TEFC API THRUST DESIGN CAST IRON CBOX
SH 1 of 1

616555-992

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