

ABB BALDOR RELIANCE III

Customer information packet

ZDVSM4314T

60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT,

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz 90.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ 60.000 HP @ 90 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 90 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 460.0 V @ 90 HZ 230.0 V @ 90 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	1000:1
Current @ Voltage	71.200 A @ 460.0 V 69.100 A @ 460.0 V 142.000 A @ 230.0 V 138.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	TACHOMETER
Heater Indicator	No Heater
High Voltage Full Load Amps	69.1 a

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4074
Layout	611740-200
Eff. date	07-23-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

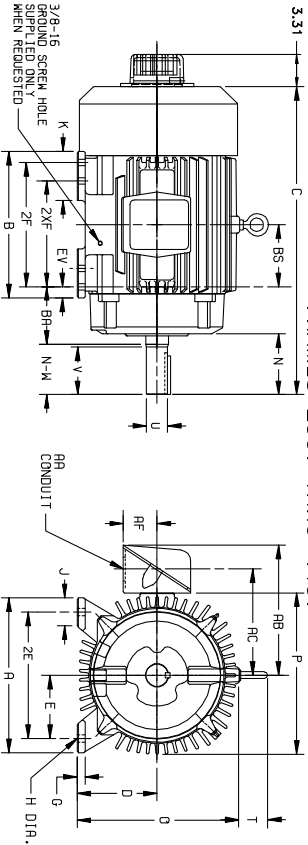
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	36.75 IN
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm 2675 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007HV										
CAT NO	ZDVSM4314T			SPEC NO.	P36G3219					
SER.NO.				FRAME	364T					
	HP	RPM	VOLTS	AMPS		HZ	TYPE	P		
BASE	60	1785	230/460	142/71		60	SF	1.00		
MAX	60	2675	230/460	138/68		90	INSUL.CLASS		F	
DRIVE END BEARING	65BC03J30X			CONSTANT TORQUE		DUTY	CONT		AMB	40
OPP D.E. BEARING	65BC03J30X			1000:1		ENCL	TEFC	PHASE	3	
DESIGN NO.	A36WG4074-R002			FLUX AMPS		54/27		VPWM INVERTER READY		
MAX SPEED/RPM	3600		OVERTEMP PROT		2	WK2	14.32	POLES	4	WEIGHT

DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED SQUIREL-CAGE INDUCTION COOLING: FAN COOLED
MOUNTING: FOOT ACCESSORIES: BEI HS 35 TACH FRAMES 250T THRU 440T



DIMENSIONS ARE IN INCHES

FRAME	A	D(2)	E	G	H	J	K	O	P	T	AA	AB	AC	AF	BA	EV
254T-256T	12.50	6.25	5.00	.75	.56	2.50	---	13.25	13.58	2.44	1-1/4	10.75	8.75	2.50	4.25	1.00
284T-286T	13.75	7.00	5.50	.75	.56	2.50	---	14.75	14.88	2.44	1-1/2	12.75	10.00	3.19	4.75	1.00
324T-326T	15.50	8.00	6.25	.88	.69	2.75	4.50	16.69	17.00	2.44	2	15.19	11.44	4.25	5.25	1.38
364T-366T	17.00	9.00	7.00	.88	.69	2.75	3.88	18.50	19.50	2.94	3	18.06	14.00	5.38	5.88	1.38
404T-406T	19.00	10.00	8.00	1.12	.81	3.25	4.62	21.31	22.50	2.94	3	19.31	15.25	5.38	6.62	1.13
444T-446T	21.00	11.00	9.00	1.12	.81	3.25	5.25	23.38	25.25	3.25	3	23.38	18.12	6.50	7.50	1.25

FRAME	SIZE	C	BS	B	2F	(4)	N	N-W(6)	U(3)	V	SQ.	LGTH.	WEIGHT
254T	24.56	5.00	12.00	---	---	8.25	4.12	4.00	1.625	3.75	.375	2.86	305
256T	24.56	5.00	12.00	10.00	---	---	4.12	4.00	1.625	3.75	.375	2.86	315
284T	27.44	5.50	13.00	---	---	9.50	4.62	4.38	1.875	4.38	.500	3.25	435
286T	27.44	5.50	13.00	---	---	---	3.62	3.25	1.625	3.00	.375	1.88	435
288T	27.44	5.50	13.00	11.00	---	---	5.00	4.62	1.875	4.38	.500	3.25	450
289T	26.06	5.50	13.00	11.00	---	---	3.62	3.25	1.625	3.00	.375	1.88	450
324T	30.44	6.00	14.75	---	---	10.50	4.12	3.75	1.875	3.50	.500	3.86	540
324T5	28.94	6.00	14.75	12.00	---	---	4.12	3.75	1.875	3.50	.500	2.00	540
326T	30.44	6.00	14.75	12.00	---	---	5.62	5.25	2.125	5.00	.500	3.86	580
326T5	28.94	6.00	14.75	12.00	---	---	4.12	3.75	1.875	3.50	.500	2.00	580
364T	33.44	6.12	15.00	---	---	11.25	6.25	5.88	2.375	5.62	.625	4.25	800
364T5	31.31	6.12	15.00	---	---	11.25	4.12	3.75	1.875	3.50	.500	2.00	794
365T	33.44	6.12	15.00	12.25	---	---	6.25	5.88	2.375	5.62	.625	4.25	840
365T5	31.31	6.12	15.00	12.25	---	---	4.12	3.75	1.875	3.50	.500	2.00	834
404T	38.31	6.88	16.00	---	---	12.25	7.50	7.25	2.875	7.00	.750	5.62	1120
404T5	35.31	6.88	16.00	---	---	12.25	4.50	4.25	2.125	4.00	.500	2.75	1111
405T	35.31	6.88	16.00	13.75	---	---	7.50	7.25	2.875	7.00	.750	5.62	1160
405T5	35.31	6.88	16.00	13.75	---	---	4.50	4.25	2.125	4.00	.500	2.75	1151
444T	44.62	8.25	19.00	---	---	14.50	8.94	8.50	3.375	8.25	.875	6.86	1540
444T5	44.62	8.25	19.00	---	---	14.50	5.94	5.50	2.375	8.25	.875	6.86	1540
445T	44.62	8.25	19.00	16.50	---	---	8.50	8.00	3.375	8.25	.875	6.86	1726
445T5	40.88	8.25	19.00	16.50	---	---	5.19	4.75	2.375	4.50	.625	3.00	1714

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES 250T - 320T +.00, -.03.
360T - 440T +.00, -.06.
HP TO 1.625 DIA. +.0000, -.0005
- (3) "U" VARIES 1.625 AND LARGER +.000, -.001.
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (6) "N-W" VARIES +.00, -.25.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-W-1, W-4-W-5-W-7, OR C-1 MOUNTING IS SPECIFIED.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .002 T.I.R. TO AND INCLUDING 1.625 DIA. AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

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

C/R 380258

10-541-05 10-541-00

002-074119

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: REMOVING TITLEBLOCK		
REV. LTR: A	VERSION: 01	TDR: 000000446964
FILE: \RAG\00004\234	REVISED: 15: 33: 32 10/23/2007	BY: CONBPM
MTL: -		

Baldor • Dodge • Reliance

250T-440T TEFC W/ BEI HS35 TACH

611740-200

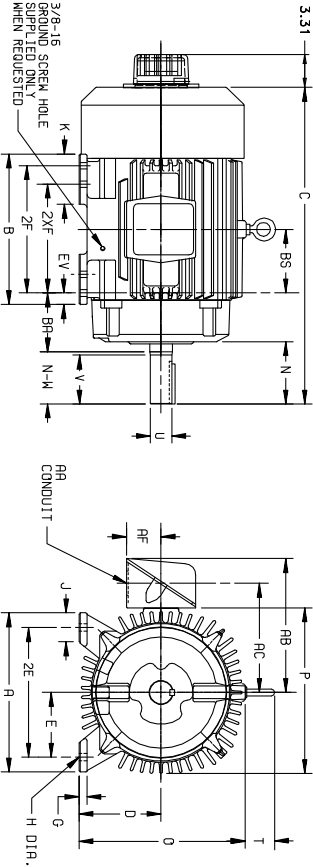
DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED
SQUIRREL-CAGE INDUCTION

COOLING: FAN COOLED

MOUNTING: FOOT
ACCESSORIES: BEI HS 35 TACH

FRAMES 250T THRU 440T



DIMENSIONS ARE IN MILLIMETERS

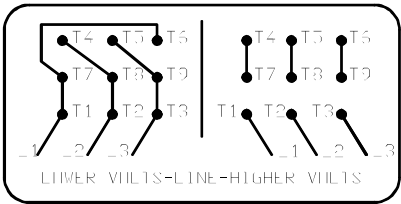
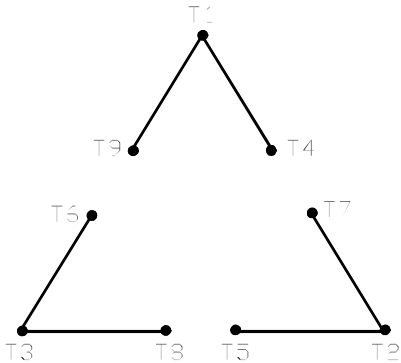
FRAME	A	D(2)	E	G	H	J	K	Q	P	T	AA	AB	AC	AF	BA	EV
254T-256T	317.50	158.75	27.00	19.05	4.22	63.5	---	336.55	336.55	2.44	31.75	273.05	222.25	63.50	107.95	25.40
284T-286T	349.25	177.80	39.70	18.05	4.22	63.5	---	374.65	377.95	2.44	38.10	323.85	294.00	81.03	120.65	25.40
324T-326T	393.70	203.20	58.75	32.39	7.53	89.89	14.3	423.93	431.80	2.44	50.8	385.83	290.58	107.95	133.35	35.05
364T-366T	431.80	228.60	77.80	32.39	7.53	89.89	55	469.90	495.30	2.94	76.2	458.72	355.60	136.65	149.35	35.05
404T-406T	482.60	254.00	103.20	28.28	45.20	57.82	55	511.35	541.27	506.25	2.94	76.2	490.47	387.35	136.65	168.15
444T-446T	533.40	279.40	128.60	28.28	45.20	57.82	55	533.40	564.35	541.35	3.25	76.2	593.85	460.25	165.10	190.50

(1)

FRAME	C	BS	B	2F	(4)	N	N-(W6)	U(3)	SHAFT AND KEY	V	SO	LGTH	WEIGHT
254T	687.32	127.00	130.40	254.00	209.55	104.65	101.60	41.275	95.25	9.525	73.15	143	139
284T	738.12	136.70	130.40	---	241.30	127.80	117.35	41.625	111.25	12.500	82.55	198	198
284T5	703.07	136.70	130.40	---	241.30	127.80	117.35	41.625	111.25	12.500	82.55	205	205
286T	738.12	136.70	130.40	279.40	---	121.00	117.35	41.625	111.25	12.500	82.55	205	205
286T5	703.07	136.70	130.40	279.40	---	121.00	117.35	41.625	111.25	12.500	82.55	215	215
324T	847.85	152.40	134.65	---	266.70	142.75	133.35	45.975	127.00	12.700	98.55	245	245
324T5	809.75	152.40	134.65	---	266.70	142.75	133.35	45.975	127.00	12.700	98.55	245	245
326T	847.85	152.40	134.65	304.80	---	142.75	133.35	45.975	127.00	12.700	98.55	264	264
326T5	809.75	152.40	134.65	304.80	---	142.75	133.35	45.975	127.00	12.700	98.55	264	264
364T	936.75	155.45	136.00	---	285.75	156.75	148.35	46.325	142.12	15.675	107.95	361	361
364T5	882.65	155.45	136.00	---	285.75	156.75	148.35	46.325	142.12	15.675	107.95	361	361
385T	882.65	155.45	136.00	311.15	---	156.50	155.92	47.825	158.50	12.500	85.35	376	376
404T	1033.27	172.75	146.40	---	311.15	162.50	161.15	47.825	177.80	15.000	142.75	509	509
404T5	957.07	172.75	146.40	---	311.15	162.50	161.15	47.825	177.80	15.000	142.75	509	509
405T	1033.27	172.75	146.40	349.25	---	190.50	184.15	51.025	177.80	16.050	142.75	527	527
405T5	957.07	172.75	146.40	349.25	---	190.50	184.15	51.025	177.80	16.050	142.75	527	527
444T	1208.02	209.55	182.60	---	368.30	227.00	215.90	58.725	209.55	22.225	174.75	703	703
444T5	1113.03	209.55	182.60	---	368.30	227.00	215.90	58.725	209.55	22.225	174.75	703	703
445T	1208.02	209.55	182.60	419.10	---	227.00	215.90	58.725	209.55	22.225	174.75	786	786
445T5	1113.03	209.55	182.60	419.10	---	227.00	215.90	58.725	209.55	22.225	174.75	786	786

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

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