

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

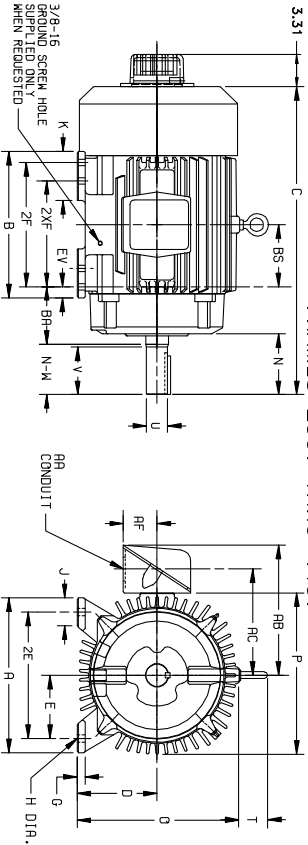
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	36.75 IN
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	SO	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	5.62	5.25	2.125	5.00	.500	3.86	540
324T5	28.94	6.00	14.75	---	---	10.50	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	33.31	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	42.62	8.25	19.00	---	---	14.50	5.94	5.50	3.375	8.25	.875	6.86	1490
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: -		

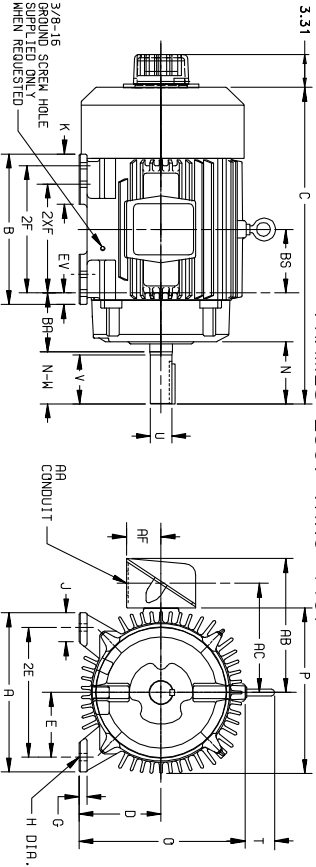
Baldor • Dodge • Reliance

250T-440T TEFC W/ BEI HS35 TACH

611740-200

DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED
SQUIRREL-CAGE INDUCTION
MOUNTING: FOOT
ACCESSORIES: BEI HS 35 TACH
COOLING: FAN COOLED



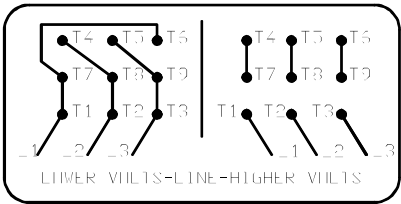
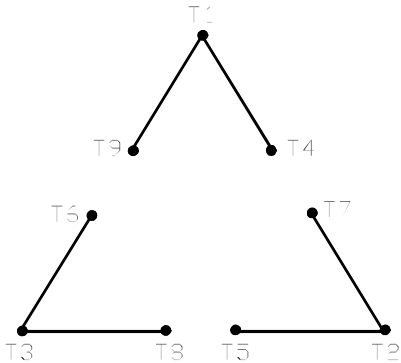
DIMENSIONS ARE IN MILLIMETERS

FRAME SIZE	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	329.50	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

FRAME SIZE	C	BS	B	2F	(4)	N	N-(W6)	U(3)	SHAFT AND KEY	W	SO	LGTH	WEIGHT (KGS)
254T	687.32	127.00	130.40	254.00	209.55	104.65	101.60	41.275	95.25	9.525	73.15	139	143
284T	987.32	127.00	130.40	254.00	209.55	104.65	101.60	41.275	95.25	9.525	73.15	143	158
324T	1087.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
364T	1187.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
404T	1287.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
444T	1387.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
484T	1487.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
524T	1587.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
564T	1687.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
604T	1787.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
644T	1887.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
684T	1987.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
724T	2087.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
764T	2187.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
804T	2287.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
844T	2387.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
884T	2487.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
924T	2587.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
964T	2687.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1004T	2787.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1044T	2887.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1084T	2987.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1124T	3087.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1164T	3187.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1204T	3287.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1244T	3387.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1284T	3487.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1324T	3587.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1364T	3687.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1404T	3787.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1444T	3887.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1484T	3987.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1524T	4087.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1564T	4187.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1604T	4287.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1644T	4387.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1684T	4487.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1724T	4587.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1764T	4687.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1804T	4787.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1844T	4887.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1884T	4987.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1924T	5087.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
1964T	5187.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2004T	5287.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2044T	5387.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2084T	5487.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2124T	5587.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2164T	5687.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2204T	5787.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2244T	5887.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2284T	5987.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2324T	6087.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2364T	6187.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2404T	6287.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2444T	6387.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2484T	6487.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2524T	6587.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2564T	6687.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2604T	6787.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2644T	6887.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2684T	6987.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2724T	7087.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2764T	7187.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2804T	7287.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2844T	7387.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2884T	7487.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2924T	7587.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
2964T	7687.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3004T	7787.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3044T	7887.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3084T	7987.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3124T	8087.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3164T	8187.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3204T	8287.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3244T	8387.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3284T	8487.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3324T	8587.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3364T	8687.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3404T	8787.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3444T	8887.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3484T	8987.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3524T	9087.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3564T	9187.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3604T	9287.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3644T	9387.32	138.70	130.40	---	241.30	127.80	117.35	41.625	76.20	8.25	82.50	188	205
3684T	9487.32	138.70	130.40	---	241.30	127.80	117						

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A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

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