ABB BALDOR RELIANCE

Customer information packet

ZDVSM4314T

60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT,
Class - None
Division - Not Applicable

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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**			

VOLTS	230/460			WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	142/71//136/68	Base Volt	460	R1	0.052	X1	0.286
HP	60	NL AMPS	27.38	R2	0.306	X2	0.113
BASE SPEED	1784	Slip (HZ)	0.53	R2B	0.023	X2B	0.418
PHASE/HZ	3/60	WK^2 (lb-ft^2)	14.300	R2E	0.007	XM	8.590

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1784	59.8	176.0	460	60	70.1
Max Speed	2675	60.1	118.0	460	90	66.8
CT Min Speed	1.784	0.060	176.0	0.46	0.06	70.1

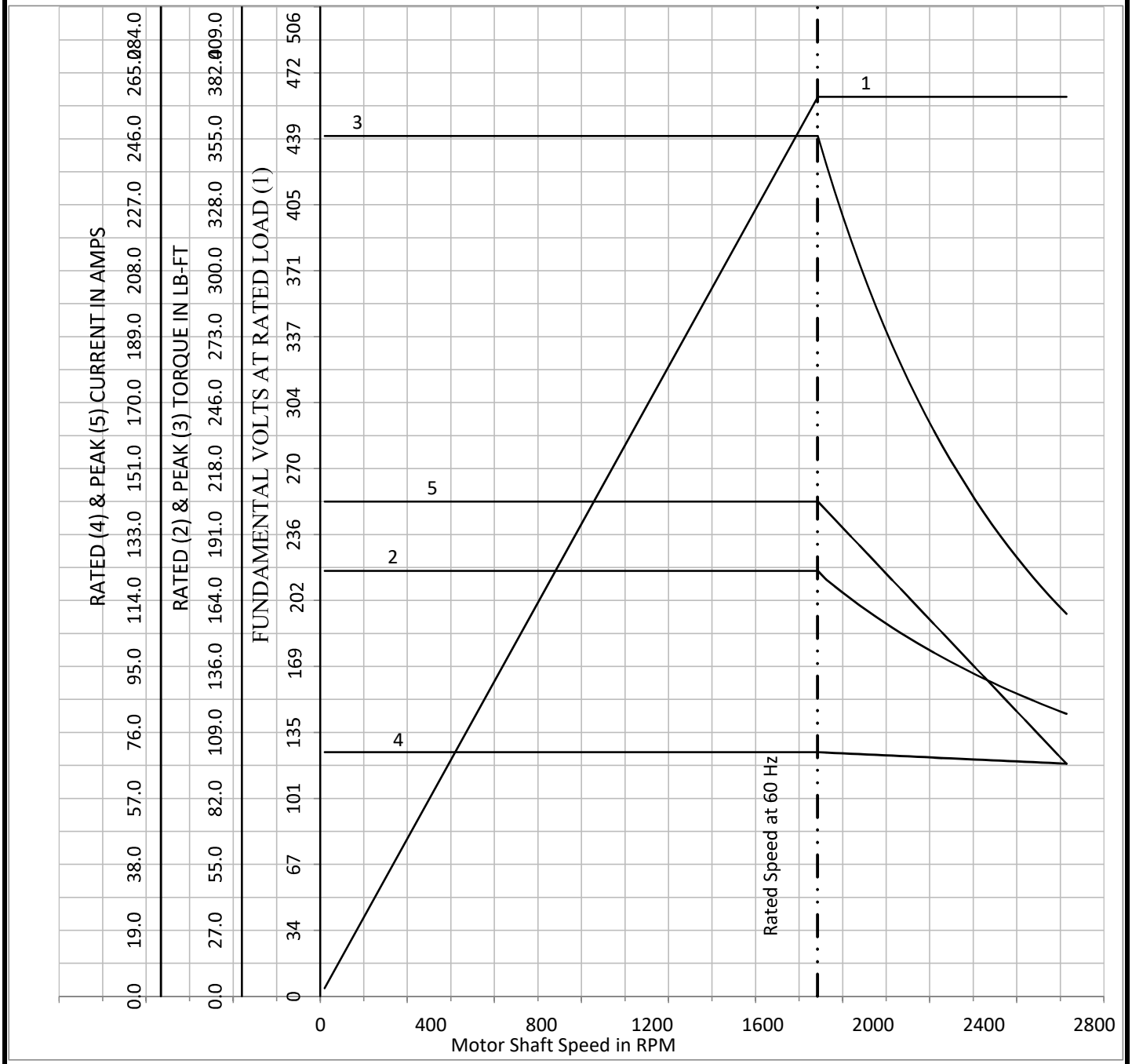
Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	27.4
1/4	1796	15.0	43.7	460	60	32.0
1/2	1792	29.9	87.7	460	60	42.2
3/4	1788	45.0	132.0	460	60	55.4
Full Load	1784	59.8	176.0	460	60	70.1
O/L	1766	119.8	356.0	460	60	142.0

Remarks: Calculated Data

VOLTS	230/460	Base Volt	460	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	142/71//136/68	NL AMPS	27.38	R1	0.052	X1	0.286
HP	60	Slip (HZ)	0.53	R2	0.306	X2	0.113
BASE SPEED	1784	WK^2 (lb-ft^2)	14.300	R2B	0.023	X2B	0.418
PHASE/HZ	3/60			R2E	0.007	XM	8.590

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

BALDOR • RELIANCE

DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 8/17/2026

A-C MOTOR PERFORMANCE CURVES

A36WG4074

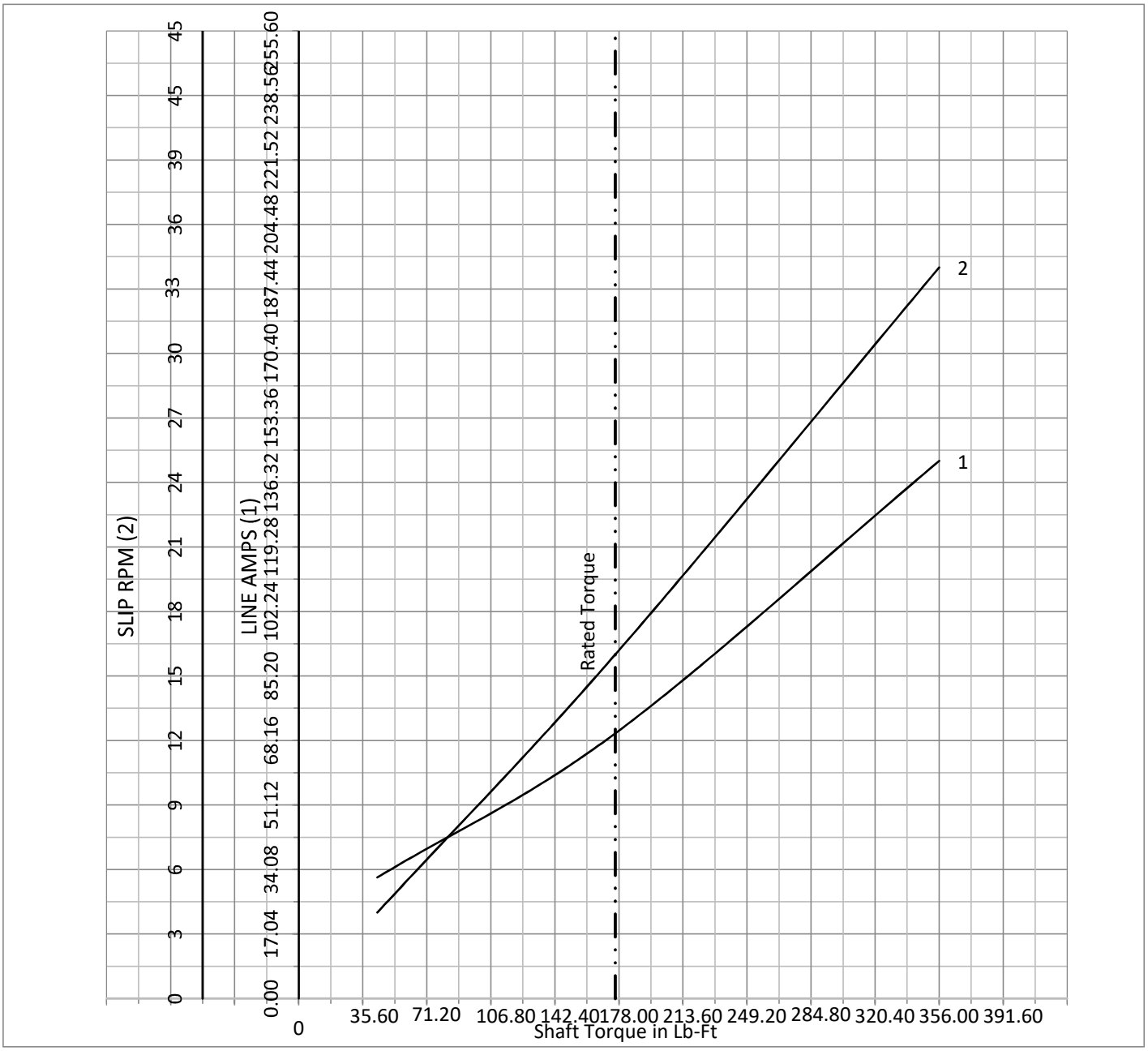
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ZD/SM4314T - 60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT,

VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	142/71//136/68	Base Volt	460	R1	0.052	X1	0.286
HP	60	NL AMPS	27.38	R2	0.306	X2	0.113
BASE SPEED	1784	Slip (HZ)	0.53	R2B	0.023	X2B	0.418
PHASE/HZ	3/60	WK2 (lb-ft2)	14.300	R2E	0.007	XM	8.590

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

BALDOR • RELIANCE

DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 8/17/2026

A-C MOTOR PERFORMANCE CURVES

A36WG4074

Record: 77714

611740–200

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL–CAGE INDUCTION

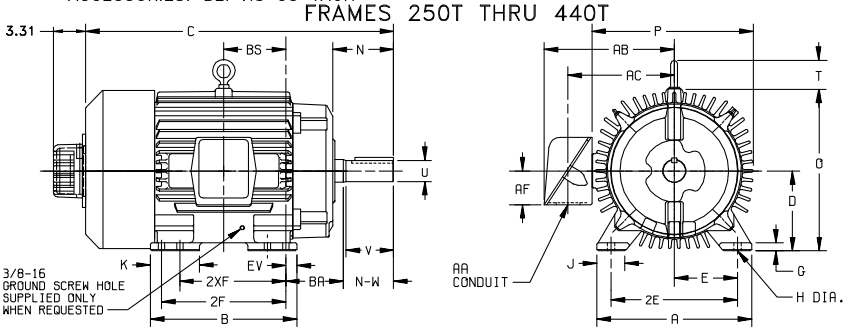
ENCLOSURE: TOTALLY ENCLOSED

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	STEEL TERMINAL BOX AA	AB	AC	AF	BA	EV
254T–256T	12.50	6.25	5.00	.75	.56	2.50	––	13.25	13.25	2.44	1–1/4	10.75	8.75	2.50	4.25	1.00
284T–286TS	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–326TS	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–365TS	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–405TS	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–445TS	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
(1)																

FRAME SIZE	C	BS	B	2F	(4) 2XF	N	SHAFT AND KEY N–W(6)	U(3)	V	SQ.	LGTH.	WEIGHT LBS. (5)
254T	24.56	5.00	12.00	---	8.25	4.12	4.00	1.625	3.75	.375	2.88	305
256T	24.56	5.00	12.00	10.00	---	4.12	4.00	1.625	3.75	.375	2.88	315
284T	27.44	5.50	13.00	---	9.50	5.00	4.62	1.875	4.38	.500	3.25	435
284TS	26.06	5.50	13.00	---	9.50	3.62	3.25	1.625	3.00	.375	1.88	435
286T	27.44	5.50	13.00	11.00	---	5.00	4.62	1.875	4.38	.500	3.25	450
286TS	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	3.88	540
324TS	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	3.88	580
326TS	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
364TS	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
365TS	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
404TS	35.31	6.88	16.00	---	12.25	4.50	4.25	2.125	4.00	.500	2.75	1111
405T	38.31	6.88	16.00	13.75	---	7.50	7.25	2.875	7.00	.750	5.62	1160
405TS	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	6.88	1540
444TS	40.88	8.25	19.00	---	14.50	5.19	4.75	2.375	4.50	.625	3.00	1524
445T	44.62	8.25	19.00	16.50	---	8.94	8.50	3.375	8.25	.875	6.88	1730
445TS	40.88	8.25	19.00	16.50	---	5.19	4.75	2.375	4.50	.625	3.00	1714
(1)												

(1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.

(2) "D" VARIES — 250T – 320T +.00, –.03. / 360T – 440T +.00, –.06.

(3) "U" VARIES — UP TO 1.625 DIA. +.0000, –.0005 / 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 STD. SHAFT EXTENSION IS .002 T.I.R. UP 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

611740–200

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

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250T–440T TEFC W/ BEI HS35 TACH

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

ABB BALDOR RELIANCE
CUSTOMER INFORMATION PACKET
ZDVSM4314T - 60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT,
P36G3219: 60HP,1785//2680RPM,3PH,60//90HZ,364T,A36

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL–CAGE INDUCTION

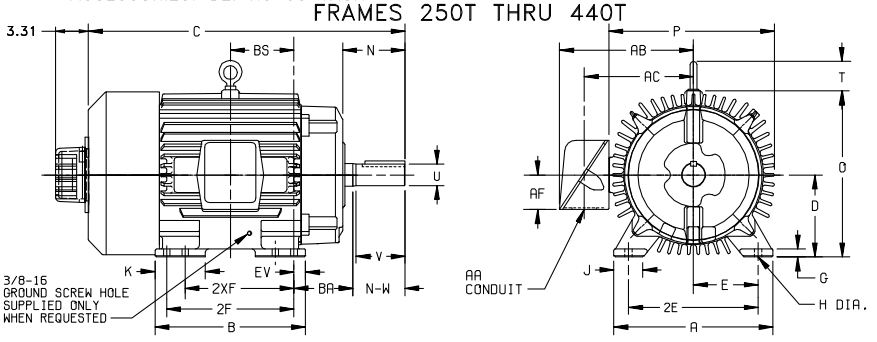
ENCLOSURE: TOTALLY ENCLOSED

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	O	P	T	STEEL TERMINAL BOX AA	AB	AC	AF	BA	EV
254T–256T	317.50	158.75	127.00	19.05	14.22	63.5	––	336.55	336.55	2.44	31.75	273.05	222.25	63.50	107.95	25.40
284T–286TS	349.25	177.80	139.70	19.05	14.22	63.5	––	374.65	377.95	2.44	38.10	323.85	254.00	81.03	120.65	25.40
324T–326TS	393.70	203.20	158.75	22.35	17.53	69.85	114.3	423.93	431.80	2.44	50.8	385.83	290.58	107.95	133.35	35.05
364T–365TS	431.80	228.60	177.80	22.35	17.53	69.85	98.55	469.90	495.30	2.94	76.2	458.72	355.60	136.65	149.35	35.05
404T–405TS	482.60	254.00	203.20	28.45	20.57	82.55	117.35	541.27	506.25	2.94	76.2	490.47	387.35	136.65	168.15	28.70
444T–445TS	533.40	279.40	228.60	28.45	20.57	82.55	133.35	593.85	641.35	3.25	76.2	593.85	460.25	165.10	190.50	31.75
(1)																

FRAME SIZE	C	BS	B	2F	(4) 2XF	N	SHAFT AND KEY N–W(6)	U(3)	V	SQ.	LGTH.	WEIGHT KGS. (5)
254T	687.32	127.00	304.80	---	209.55	104.65	101.60	41.275	95.25	9.525	73.15	139
256T	687.32	127.00	304.80	254.00	---	104.65	101.60	41.275	95.25	9.525	73.15	143
284T	738.12	139.70	330.20	---	241.30	127.00	117.35	47.625	111.25	12.700	82.55	198
284TS	703.07	139.70	330.20	---	241.30	91.95	82.55	41.275	76.20	9.525	47.75	198
286T	738.12	139.70	330.20	279.40	---	127.00	117.35	47.625	111.25	12.700	82.55	205
286TS	703.07	139.70	330.20	279.40	---	91.95	82.55	41.275	76.20	9.525	47.75	205
324T	847.85	152.40	374.65	---	266.70	142.75	133.35	53.975	127.00	12.700	98.55	245
324TS	809.75	152.40	374.65	---	266.70	104.65	95.25	47.625	88.90	12.700	50.80	245
326T	847.85	152.40	374.65	304.80	---	142.75	133.35	53.975	127.00	12.700	98.55	264
326TS	809.75	152.40	374.65	304.80	---	104.65	95.25	47.625	88.90	12.700	50.80	264
364T	936.75	155.45	381.00	---	285.75	158.75	149.35	60.325	142.75	15.875	107.95	364
364TS	882.65	155.45	381.00	---	285.75	104.65	95.25	47.625	88.90	12.700	50.80	361
365T	936.75	155.45	381.00	311.15	---	158.75	149.35	60.325	142.75	15.875	107.95	382
365TS	882.65	155.45	381.00	311.15	---	104.65	95.25	47.625	88.90	12.700	50.80	379
404T	1033.27	174.75	406.40	---	311.15	190.50	184.15	73.025	177.80	19.050	142.75	509
404TS	957.07	174.75	406.40	---	311.15	114.30	107.95	53.975	101.60	12.700	69.85	505
405T	1033.27	174.75	406.40	349.25	---	190.50	184.15	73.025	177.80	19.050	142.75	527
405TS	957.07	174.75	406.40	349.25	---	114.30	107.95	53.975	101.60	12.700	69.85	523
444T	1208.02	209.55	482.60	---	368.30	227.08	215.90	85.725	209.55	22.225	174.75	700
444TS	1113.03	209.55	482.60	---	368.30	131.83	120.65	60.325	114.30	15.875	76.20	693
445T	1208.02	209.55	482.60	419.10	---	227.08	215.90	85.725	209.55	22.225	174.75	786
445TS	1113.03	209.55	482.60	419.10	---	131.83	120.65	60.325	114.30	15.875	76.20	779
(1)												

(1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.

(2) "D" VARIES — 250T – 320T +.0, –.8.; 360T – 440T +.0, –1.5

(3) "U" VARIES — UP TO 41.27 DIA. +.000, –.013; 41.27 AND LARGER +.00, –.03

(4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.

(5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

(6) "N–W" VARIES +.0, –6.35

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 STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 41.27 DIA. AND .013 T.I.R. 41.27 DIA. TO 127 MM DIA.

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.

Baldor • Dodge • Reliance

DIM SHT 250T–440T TEFC BEI HS35 TACH

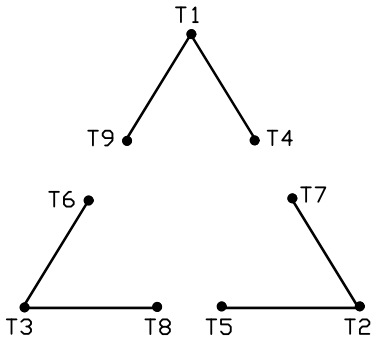
SH 1 of 1

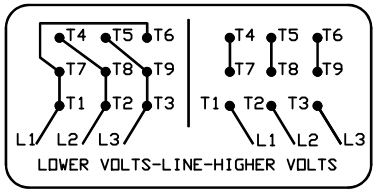
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ABB BALDOR RELIANCE
CUSTOMER INFORMATION PACKET
ZDVSM4314T - 60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT,
P36G3219: 60HP,1785//2680RPM,3PH,60//90HZ,364T,A36

416820-002

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





(N. P. 1575-B)

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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