

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

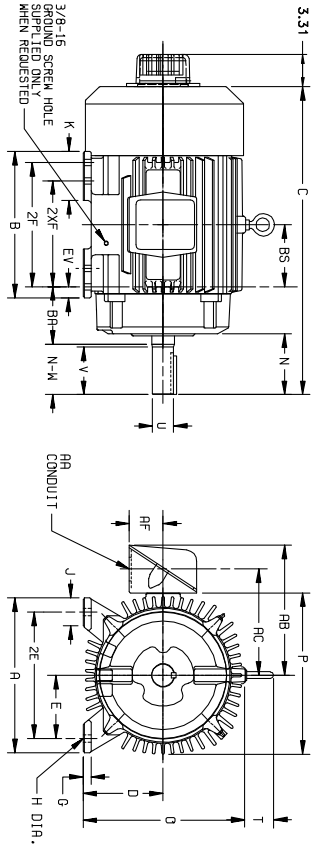
Parts List

Part number	Description	Quantity
SA209350	SA P36G3219	1.000 ea
RA196612	RA P36G3219	1.000 ea
000613007HV	N/P BALDOR VSMaster, CURUS	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
702676001C	FAN 360	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
078559001A	+FANCV - 360	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
410700004F	WSHR	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
412118006A	DRAIN	1.000 ea
412118006A	DRAIN	1.000 ea
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
043292000AJ	GASK 320-400	1.000 ea

077176000L	C/BOX, PAINTED 440	1.000 ea
077176001A	CBOX Cover 360-400	1.000 ea
402731001A	GASK 360-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
611712053RY	TACH & HARDWARE KIT	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.063 ga
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea

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-2W-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: -		

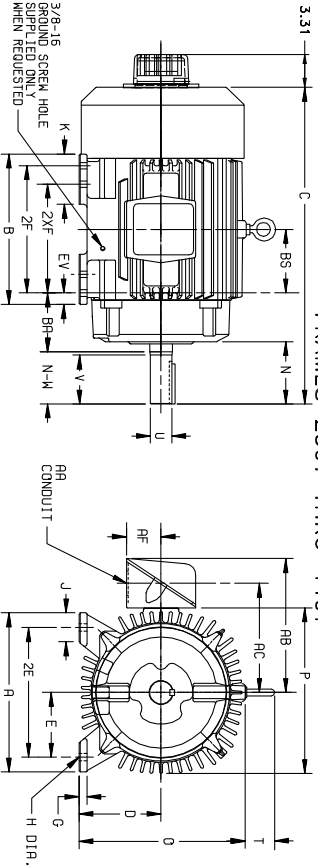
Baldor • Dodge • Reliance

250T-440T TEFC W/ BEI HS35 TACH

611740-200

DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT
ACCESSORIES: BEI HS 35 TACH
SQUIRREL-CAGE INDUCTION
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	89.85	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	89.85	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	122.80	28.28	45.20	57.82	55	533.40	541.27	506.25	2.94	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	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	139	145
284T	987.32	127.00	130.40	254.00	209.55	104.65	101.60	41.275	95.25	9.525	73.15	145	158
324T	1387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	198	205
364T	1787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	205	215
404T	2187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	215	225
444T	2587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	225	235
484T	2987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	235	245
524T	3387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	245	255
564T	3787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	255	265
604T	4187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	265	275
644T	4587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	275	285
684T	4987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	285	295
724T	5387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	295	305
764T	5787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	305	315
804T	6187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	315	325
844T	6587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	325	335
884T	6987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	335	345
924T	7387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	345	355
964T	7787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	355	365
1004T	8187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	365	375
1044T	8587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	375	385
1084T	8987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	385	395
1124T	9387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	395	405
1164T	9787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	405	415
1204T	10187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	415	425
1244T	10587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	425	435
1284T	10987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	435	445
1324T	11387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	445	455
1364T	11787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	455	465
1404T	12187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	465	475
1444T	12587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	475	485
1484T	12987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	485	495
1524T	13387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	495	505
1564T	13787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	505	515
1604T	14187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	515	525
1644T	14587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	525	535
1684T	14987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	535	545
1724T	15387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	545	555
1764T	15787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	555	565
1804T	16187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	565	575
1844T	16587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	575	585
1884T	16987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	585	595
1924T	17387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	595	605
1964T	17787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	605	615
2004T	18187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	615	625
2044T	18587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	625	635
2084T	18987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	635	645
2124T	19387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	645	655
2164T	19787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	655	665
2204T	20187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	665	675
2244T	20587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	675	685
2284T	20987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	685	695
2324T	21387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	695	705
2364T	21787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	705	715
2404T	22187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	715	725
2444T	22587.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	725	735
2484T	22987.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	735	745
2524T	23387.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	745	755
2564T	23787.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	755	765
2604T	24187.32	138.70	130.40	254.00	241.30	127.80	117.35	41.275	76.20	8.25	82.50	765	775

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES $\begin{cases} 250T - 320T +0.0, -0.8 \\ 360T - 440T +0.0, -1.5 \end{cases}$
- (3) "U" VARIES $\begin{cases} 41.27 \text{ AND LARGER} +0.0, -0.3 \end{cases}$
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (6) "N-W" VARIES +0.0, -6.35
- 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.

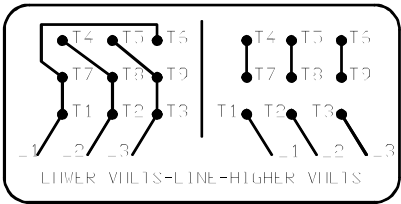
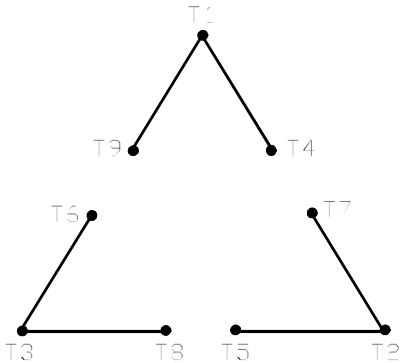
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MTL: -		

Baldor • Dodge • Reliance

DIM SHT 250T-440T TEFC BEI HS35 TACH
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		
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MTL: —		

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

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