

BALDOR® • RELIANCE

Part Information Packet

KAMAN INDUSTRIAL TECHNOLOGIES

ZDVSM2334T

20HP,1800RPM,3PH,60HZ,256TC,TEFC,FOOT,

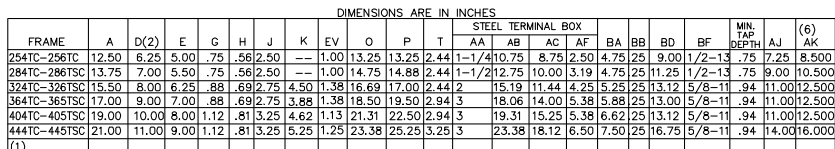
Part Detail			
Model Number:	ZDVSM2334T	Environment:	General Purpose
Voltage:	230/460	HP:	20
RPM:	1775	Efficiency:	NA
Phase:	3	Frequency:	60
Inverter Duty:	Y	Enclosure:	TEFC
Frame Group:	250	Frame Size:	256TC
Features:	Vector Duty	Mounting:	Foot Mounted
Service Factor:	1	Enclosure Group:	TEFC
List Price:	4125.00	Price Symbol:	E2
Speed Range:	1201-1800	Insulation Class:	F
Nema Design:	A	Encl. Enhancement:	
Catalog Page:	B-200	Dimension Sheet:	611740-199
Connection Diagram:	416820-2	Electric Design:	W00978-A-A001
Single HP:	20	Get Notes:	Vector Duty
Revision:		Instruction Manual:	B-3620
Application:	Variable Speed-V*S	Epact:	
Scaled Drawing:		Obsolete:	N
Last Data Source:	RAG,MADD	Bearing Type:	
Electrical Type:	P	Mounting Pos.:	
Ambient:	40	Duty:	CONT
Amps:	51.0/25.5	Nominal Eff.:	93.0
Kva Code:	K	Power Factor:	78.9
Poles:	04	Weight:	362

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

COOLING: FAN COOLED

FRAMES 250TC THRU 440TC



SIZE	(4)				SHAFT AND KEY				WEIGHT					
FRAME	C	BS	B	2F	2XF	N	AH	N-W(7)	U(3)	V	SQ.	LGTH.	WBS.	(5)
254TC	25.06	5.00	12.00	----	8.25	4.06	3.75	4.00	1.625	3.75	375	2.88	315	
256TC	25.06	5.00	12.00	10.00	----	4.06	3.75	4.00	1.625	3.75	375	2.88	325	
284TC	27.44	5.50	13.00	----	9.50	5.00	4.38	4.62	1.875	4.38	500	3.25	445	
284TSC	26.06	5.00	13.00	----	9.50	3.62	3.00	3.25	1.625	3.00	375	1.88	445	
286TC	27.44	5.50	13.00	11.00	----	5.00	4.38	4.62	1.875	4.38	500	3.25	460	
286TSC	26.06	5.00	13.00	11.00	----	3.62	3.00	3.25	1.625	3.00	375	1.88	460	
324TC	30.44	6.00	14.75	----	10.50	5.62	5.00	5.25	2.125	5.00	500	3.88	555	
324TSC	28.94	6.00	14.75	----	10.50	4.12	3.50	3.75	1.875	3.50	500	2.00	555	
326TC	30.44	6.00	14.75	12.00	----	5.62	5.00	5.25	2.125	5.00	500	3.88	595	
326TSC	28.94	6.00	14.75	12.00	----	4.12	3.50	3.75	1.875	3.50	500	2.00	595	
364TC	33.44	6.12	15.00	----	11.25	6.25	5.62	5.88	2.375	5.62	625	4.25	815	
364TSC	31.44	6.12	15.00	----	11.25	4.12	3.50	3.75	1.875	3.50	500	2.00	809	
365TC	33.44	6.12	15.00	12.25	----	6.25	5.62	5.88	2.375	5.62	625	4.25	855	
365TSC	31.44	6.12	15.00	12.25	----	4.12	3.50	3.75	1.875	3.50	500	2.00	849	
404TC	38.31	6.88	16.00	----	12.25	7.50	7.00	7.25	2.875	7.00	750	5.62	1165	
404TSC	35.31	6.88	16.00	----	12.25	4.50	4.00	4.25	2.125	4.00	500	2.75	1156	
405TC	38.31	6.88	16.00	13.75	----	7.50	7.00	7.25	2.875	7.00	750	5.62	1205	
405TSC	35.31	6.88	16.00	13.75	----	4.50	4.00	4.25	2.125	4.00	500	2.75	1196	
444TC	44.82	8.25	19.00	----	14.50	8.94	8.25	8.50	3.375	8.25	875	6.88	1608	
444TSC	40.82	8.25	19.00	----	14.50	5.19	4.50	4.75	2.375	4.50	625	3.00	1592	
445TC	44.82	8.25	19.00	16.50	----	8.94	8.25	8.50	3.375	8.25	875	6.88	1688	
445TSC	40.82	8.25	19.00	16.50	----	5.19	4.50	4.75	2.375	4.50	625	3.00	1782	

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES — 250TC ~ 320TC +.00, -.03
— 360TC ~ 440TC +.00, -.06.
- (3) "U" VARIES — HP 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) "AK" VARIES — 250TC ~ 280TC +.000, -.003
— 320TC ~ 440TC +.000, -.005
- (7) "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.
- FACE RUNOUT AND ECCENTRICITY — 250TC ~ 280TC INCL. .004 MAX. T.I.R.
— 320TC ~ 440TC INCL. .007 MAX. T.I.R.

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

C/R 380258

10-541-00

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

EV. DESC: REMOVING TITLEBLOCK

EV. LTR: A	VERSION: 01	TDR: 000000446964
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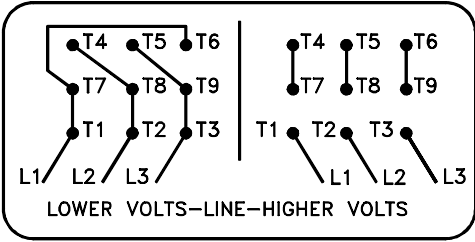
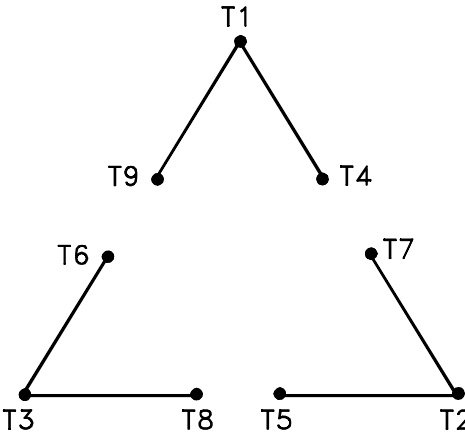
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Baldor • Dodge • Reliance

250TC-440TC TEFC C FACE W/ BEI HS35 TACH

611/40-199

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



(N.P. 1575-B)

C/R 276062

CUSTOMER _____		CUSTOMER ORDER NO. _____		RELIANCE S.O. NO. _____			
 CLEVELAND, OHIO 44117		DR. BY <u>N.F.J.</u>		CONNECTION DIAGRAM		416820-2	
		CK. BY <u>D.G.Y.</u>					
		APP. BY <u>H.E.J.</u>					
		DATE <u>3/5/76</u>					

REL S.O.	-	VOLTS	230/460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE	
FRAME	256T	AMPS	25.5	MAX SAFE RPM	5400	(AT BASE RATING, 25 °C)	
HP	20	DUTY	CONT	IM (AMPS)	10.9	R1 .154	X1 .796
BASE SPEED	1775	S.F.	1.0	P.F.@NL/FL	6.2/78.9	R2 .130	X2 1.23
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	WK ² (Lb-Ft ²)	2.42	XM 20.0	

RATED FULL LOAD DATA						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1776	20.0	59	460	60	25.5
MAX SPEED	2662	20.0	39	460	90	23.3
MIN SPEED	0	0	59	16.3	.805	25.5

LOAD PERFORMANCE AT BASE SPEED						
	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	10.9
1/4	1794	5.00	15	460	60	14.3
1/2	1788	10.0	29	460	60	17.2
3/4	1782	15.0	44	460	60	20.9
FULL LOAD	1776	20.0	59	460	60	25.5
0/L	1746	39.4	118	460	60	47.3

BLOWER DATA	VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM

REMARKS: CALCULATED DATA
VECTOR PWM INVERTER DUTY

	DR. BY	M. ORDERS
	CK. BY	J. TSAO
	APP. BY	J. TSAO
	DATE	10/27/00

A-C MOTOR PERFORMANCE DATA	W00978-A-A001
	ISSUE DATE 6/29/01

C/R 343448

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