



TDV SERIES

VERTICAL 3-PHASE 3-WIRE FILTERS



COMPONENTS

PARTNo.	Cx1(uF)	Cx2(uF)	Cy(uF)	L(mH)	R1(MΩ)	R2(MΩ)
07TDVST2	2.2	2.2	2.2	2.52	1.0	0.68
16TDVST2	4.4			1.70		
30TDVST2		1.00				
42TDVST2		0.60				
55TDVST2		0.60				
75TDVST2		0.45				
*100TDVST2	6.6	6.6		0.30	1.5	

* USE DIFFERENT TERMINAL BLOCK STYLE.

MINIMUM INSERTION LOSS IN dB

COMMONMODE(L-G) IN 50 OHM SYSTEM						
PART NO.	FREQUENCY-MHz					
	10	.15	.50	1.0	30	
07TDVST2		50	70	65	50	4020
16TDVST2	50	50	50	45	30	20
30TDVST2	50	55	50	45	30	15
42TDVST2	45	50	50	30	25	10
55TDVST2	45	60	55	35	30	10
75TDVST2	40	55	50	25	18	7
*100TDVST2	35	50	45	25	15	7
DIFFERENTIALMODE(L-L) IN 50 OHM SYSTEM						
07TDVST2	45	60	70	50	40	40
16TDVST2	45	45	50	40	35	30
30TDVST2	45	45	45	45	45	25
42TDVST2	35	50	50	40	40	20
55TDVST2	40	55	55	50	50	20
75TDVST2	40	45	45	40	40	5
*100TDVST2	30	35	35	35	30	7

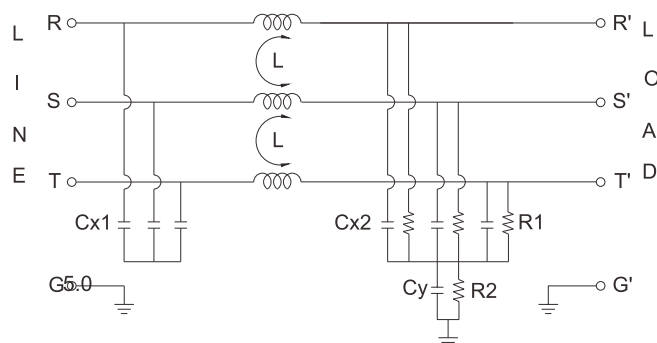
SERIES DIMENSIONS

PART NO.	DIMENSIONS IN INCHES/mm						
	A	B	C	D	E	F	G
07TDVST2	6.378 162.0	1.654 42.0	2.835	7.559 192.0	7.087 180.0	0.787 20.0	0.213 5.4
16TDVST2	8.740 222.0	1.850 47.0		9.921 252.0	9.252 235.0	0.984 25.0	
30TDVST2	9.528 242.0	2.047 52.0	3.425	10.709 272.0	10.039 255.0	1.181 30.0	
42TDVST2	11.102 282.0		87.0	12.283 312.0	11.614 295.0		
55TDVST2	8.740 222.0	3.425 87.0	3.622 92.0	9.921 252.0	9.252 235.0	2.362	
75TDVST2	9.528 242.0	3.622 92.0	5.394 137.0	10.709 272.0	10.039 255.0	60.0	0.256
*100TDVST2	9.449 240.0	3.543 90.0	5.906 150.0	10.63 270.0	10.039 255.0	2.559 65.0	6.5

INTRODUCTIONS

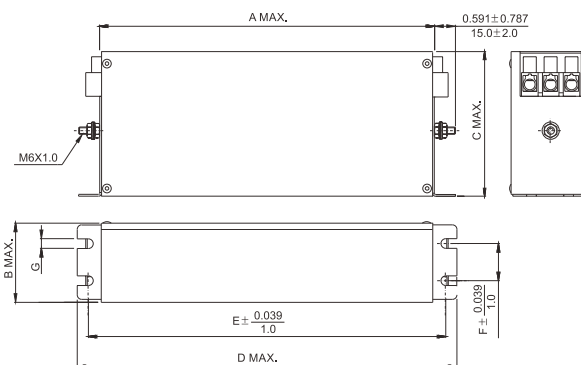
1. Applications: Electric equipment, UPS, machine tool, copy machine, automation equipment, robot, AC motor drive
2. Voltage rating: 480VAC
3. Operating frequency: 50/60Hz

ELECTRICAL SCHEMATIC



MECHANICAL CONSTRUCTION

* FOR 100TDVST2 ONLY..



UNIT: $\frac{\text{INCH}}{\text{mm}}$

COMPONENTS

PART No.	Cx1 (uF)	Cx2 (uF)	Cx3 (uF)	Cy (uF)	L1 (mH)	L2 (uH)	R1 (Ω)	R2 (Ω)
07TDVST2-1	3.3	3.3	-	3.3	2.52	4.5	1M	680K
16TDVST2-1		2.2	3.3		1.77	9	680K	
30TDVST2-1		3.3			1.1			
42TDVST2-1	10	3.3	-	3.3	0.6	8	680K	
55TDVST2-1					1.3			
75TDVST2-1					0.9			
100TDVST2-1					0.5			
130TDVST2-1					0.4	-		
180TDVST2-1								

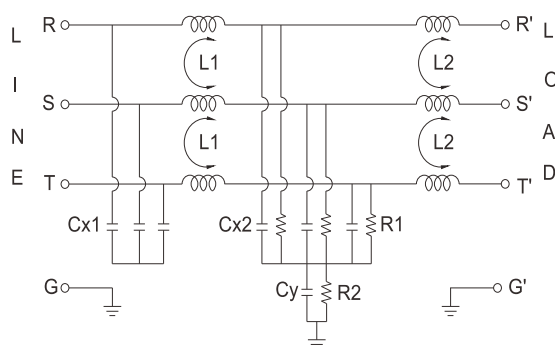
MINIMUM INSERTION LOSS IN dB

COMMONMODE(L-G) IN 50 OHM SYSTEM						
PART NO.	FREQUENCY-MHz					
	.15	.50	1.0	5.0	10	30
07TDVST2-1	55	70	60	45	30	15
16TDVST2-1	50	65	55	40	35	20
30TDVST2-1	50	60	55	35	35	10
42TDVST2-1	50	55	50	30	20	10
55TDVST2-1	55	65	50	30	20	5
75TDVST2-1	55	60	50	20	10	5
100TDVST2-1	50	65	50	20	10	5
130TDVST2-1	45	65	50	35	15	5
180TDVST2-1	40	60	45	30	20	5
DIFFERENTIALMODE(L-L) IN 50 OHM SYSTEM						
07TDVST2-1	45	50	45	40	40	20
16TDVST2-1	55	55	50	40	40	35
30TDVST2-1	45	40	35	35	35	20
42TDVST2-1	55	40	30	20	20	10
55TDVST2-1	60	55	45	40	35	5
75TDVST2-1	60	60	50	40	20	5
100TDVST2-1	50	50	45	35	25	5
130TDVST2-1	40	55	45	30	30	5
180TDVST2-1	45	40	35	20	20	10

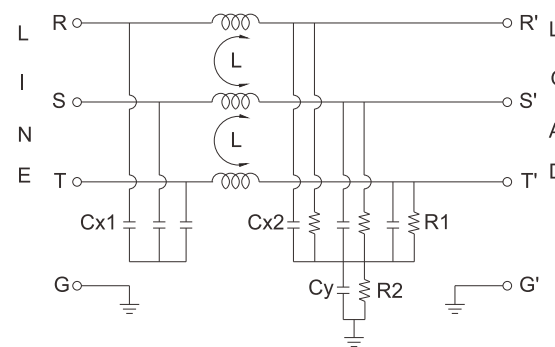
INTRODUCTIONS

1. Applications: Electric equipment, UPS, machine tool, copy machine, automation equipment, robot, AC motor drive
2. Voltage rating: 480VAC
3. Operating frequency: 50/60Hz

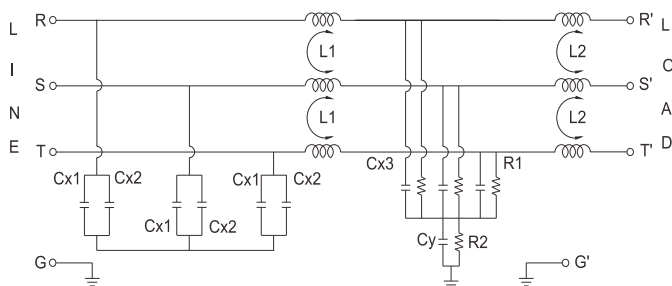
ELECTRICAL SCHEMATIC



07/42/55/75/100/130TDVST2-1



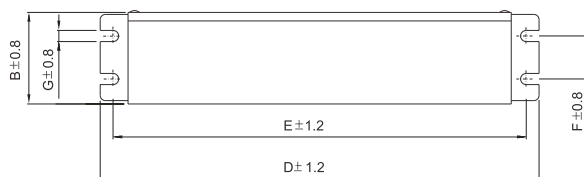
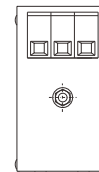
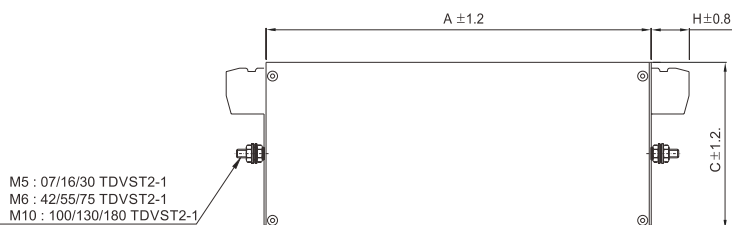
180TDVST2-1 ONLY



16/30TDVST2-1

SERIES DIMENSIONS

PART NO.	DIMENSIONS IN INCHES/mm							
	A	B	C	D	E	F	G	H
07TDVST2-1	$\frac{6.299}{160.0}$	$\frac{1.575}{40.0}$	$\frac{2.756}{70.0}$	$\frac{7.48}{190.0}$	$\frac{7.087}{180.0}$	$\frac{0.787}{20.0}$	$\frac{0.177}{4.5}$	$\frac{0.965}{24.5}$
16TDVST2-1	$\frac{8.661}{220.0}$	$\frac{1.772}{45.0}$		$\frac{9.843}{250.0}$	$\frac{9.252}{235.0}$	$\frac{0.984}{25.0}$	$\frac{0.213}{5.4}$	
30TDVST2-1	$\frac{9.449}{240.0}$	1.969	3.346	$\frac{10.63}{270.0}$	$\frac{10.039}{255.0}$	1.181		
42TDVST2-1	$\frac{11.024}{280.0}$	50.0	85.0	$\frac{12.205}{310.0}$	$\frac{11.614}{295.0}$	30.0		
55TDVST2-1	$\frac{8.661}{220.0}$	$\frac{3.927}{100.0}$	$\frac{3.543}{90.0}$	$\frac{9.843}{250.0}$	$\frac{9.252}{235.0}$	2.362	$\frac{0.256}{6.5}$	1.516
75TDVST2-1	$\frac{9.449}{240.0}$	$\frac{3.543}{90.0}$	$\frac{5.315}{135.0}$	$\frac{10.63}{270.0}$	$\frac{10.039}{255.0}$	60.0		38.5
100TDVST2-1		$\frac{4.331}{110.0}$	$\frac{5.906}{150.0}$			$\frac{2.559}{65.0}$		$\frac{1.693}{43.0}$
130TDVST2-1								
180TDVST2-1	$\frac{13.78}{350.0}$	$\frac{5.512}{140.0}$	$\frac{6.693}{170.0}$	$\frac{14.961}{380.0}$	$\frac{14.37}{365.0}$	$\frac{4.016}{102.0}$		$\frac{1.949}{49.5}$



UNIT: $\frac{\text{INCH}}{\text{mm}}$

MECHANICAL CONSTRUCTION



Mouser Electronics

Authorized Distributor

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