

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	6.6	6.6		0.45	1.5	
100TDVST2				0.30		

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	50	70	65	50	40	20	
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	

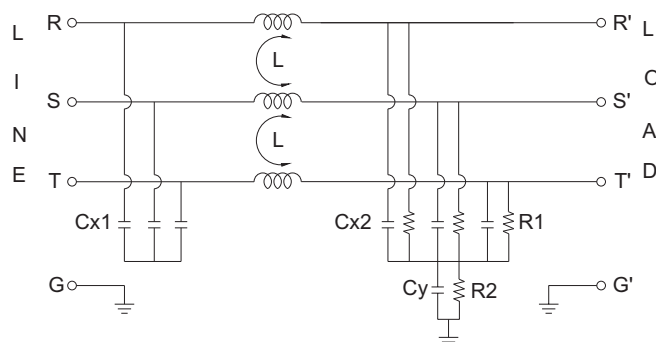
SERIES DIMENSIONS

PART NO.	DIMENSIONS IN INCHES/mm						
	A	B	C	D	E	F	G
07TDVST2	6.378	1.654	2.835	7.559	7.087	0.787	0.213
	162.0	42.0		192.0	180.0	20.0	
16TDVST2	8.740	1.850	72.0	9.921	9.252	0.984	0.213
	222.0	47.0		252.0	235.0	25.0	
30TDVST2	9.528	2.047	3.425	10.709	10.039	1.181	5.4
	242.0			272.0	255.0		
42TDVST2	11.102	52.0	87.0	12.283	11.614	30.0	0.213
	282.0			312.0	295.0		
55TDVST2	8.740	3.425	3.622	9.921	9.252	2.362	0.256
	222.0	87.0		252.0	235.0		
75TDVST2	9.528	3.622	5.394	10.709	10.039	60.0	0.256
	242.0	92.0		272.0	255.0		
100TDVST2	9.449	3.543	5.906	10.63	10.039	2.559	6.5
	240.0	90.0		270.0	255.0		

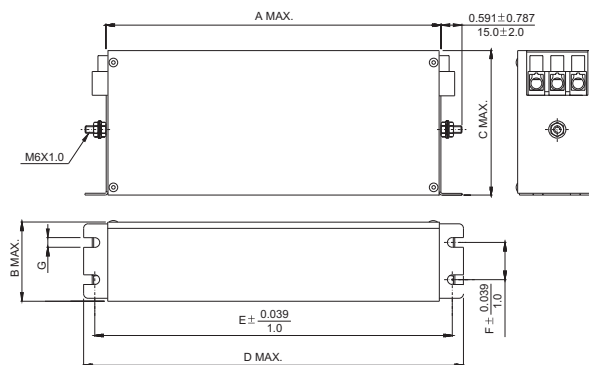
INTRODUCTIONS

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



UNIT: INCH
mm

COMPONENTS

PARTNo.	Cx1 (uF)	Cx2 (uF)	Cx3 (uF)	Cy (uF)	L1 (mH)	L2 (uH)	R1 (MΩ)	R2 (MΩ)
07TDVST2-1	3.3	3.3	-	3.3	2.52	4.5	1M	680K
16TDVST2-1		2.2	3.3		1.77	9		
30TDVST2-1		3.3	-		1.1		8	
42TDVST2-1	10	3.3			0.6			
55TDVST2-1					1.3			
75TDVST2-1					0.9			
100TDVST2-1					0.5			
130TDVST2-1					0.4	-		
180TDVST2-1								

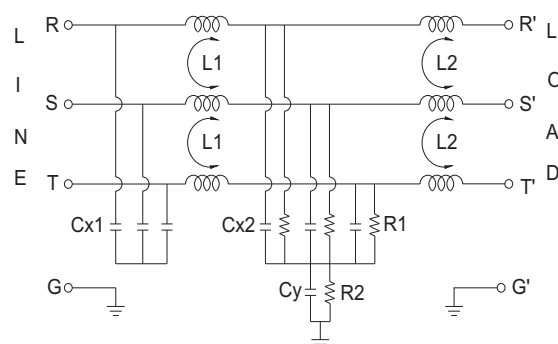
MINIMUM INSERTION LOSS IN dB

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	

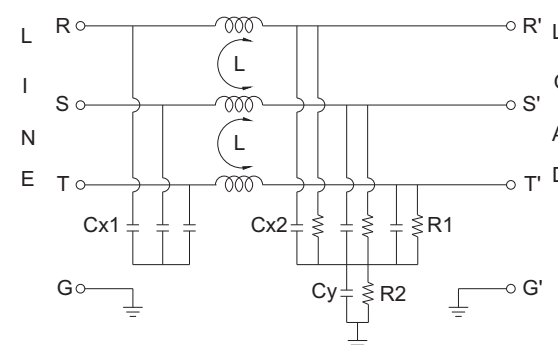
INTRODUCTIONS

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

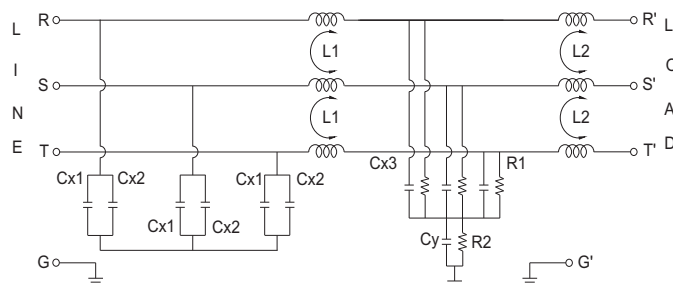
ELECTRICAL SCHEMATIC



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



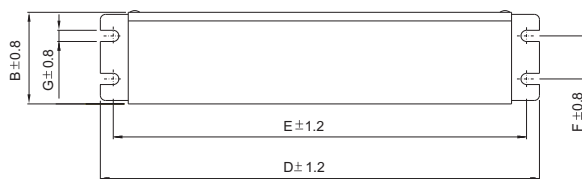
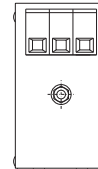
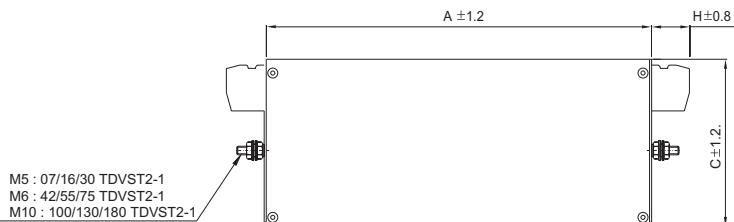
180TDVST2-1 ONLY



16/30TDVST2-1

SERIES DIMENSIONS

PARTNO.	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	$\frac{8.661}{220.0}$	$\frac{1.772}{45.0}$		$\frac{9.843}{250.0}$	$\frac{9.252}{235.0}$	$\frac{0.984}{25.0}$	0.213	
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	5.4	
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

