

Additional Technical Information for Tie Point, Diode, and Resistor Terminal Blocks



ATTENTION: The total current flow through these terminal blocks (the sum of all inputs or the sum of all outputs) must not exceed the rated current for the device.

Tie Point Terminal Blocks — Type WD4C

Description	Type	Rating
Maximum Total Current Flow Through the Terminal Block	WD4C	10 A
Maximum Working Voltage	WD4C	300 V
Operating Ambient Temperature Range	All	–4...+104°F (–20...+40°C)
Standard Resistance Range	A	–40...+167°F (–40...+75°C)

Diode Terminal Blocks — Types WD4DF and WD4DR

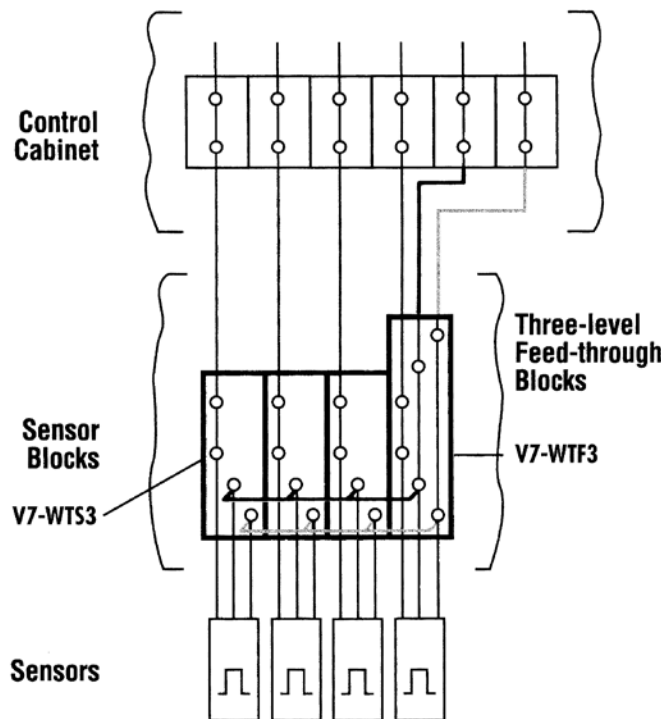
Description	Symbol	Type	Rating
Peak Repetitive Reverse Voltage	V (RRM)		
Working Peak Reverse Voltage	V (RWM)	WD4DF, WD4DR	300V
DC Blocking Voltage	V (R)		
Non-Repetitive Peak Reverse Voltage (Half wave, single phase, 60 Hz)	V (RSM)	WD4DF, WD4DR	300V
RMS Reverse Voltage ❶	V (Rrms)	WD4DF, WD4DR	300V
Average Rectified Forward Current Single Phase, Resistive Load, 60 Hz	I (O)	All	1.0 A
Non-Repetitive Peak Surge Current (Surge applied at rated load)	I (FSM)	All	30 A (1 cycle)
Maximum Forward Voltage Drop [I (F) = 1.0 A]	V (F)	All	1.1 V
Maximum Reverse Current	I (R)	All	10 µA
Operating Ambient Temperature Range	T (A)	All	–4...+104°F (–20...+40°C)
Storage Temperature Range	T (S)	All	–40...+167°F (–40...+75°C)

NOTE: All parameters measured at 77°F (25°C)

❶ The maximum voltage rating of the diode terminal blocks listed in this table should not be exceeded even though the maximum reverse voltage rating of the diode alone is 1000V.

Fuse Plugs ❶			
Characteristic	Catalog Number		
	V7-FP4	V7-FP424	V7-FP4250
Indicator Type	Non-Indicating	LED	LED
Leakage Current	~	2 mA @ 24 V	1 mA @ 264 V
Working Voltage	Per Fuse Rating	10...57V AC/DC	85...264V AC
Fuse Size (Not Supplied)	5 x 20 mm	5 x 20 mm	5 x 20 mm

Sensor Block Wiring Diagram



❶ Maximum current rating for the fuse plug is 10 A @ 250 V. IEC standards for 5 x 20 mm fuses do not include ratings above 6.3 A.

Regulatory Approvals

Terminal block products have been designed to meet the requirements of one or more regulatory bodies. Most products have also been tested per additional standards. The following is a listing of some of the regulatory bodies and standards which apply to terminal block products. See the particular product description for information on specific approvals and ratings.

UL (Underwriters Laboratories) — Devices in this catalog with one of these ratings have been tested by Underwriters Laboratories and meet the requirements of one or more of the following United States Standards:

- UL 457 — Grounding and Bonding Equipment
- UL 486E — Equipment Wiring Terminals for Use With Aluminum and/or Copper Conductors
- UL 1059 — Standard for Terminal Blocks

Reference UL file E195677

cUL (Underwriters Laboratories) — Devices in this catalog with this rating have been tested by Underwriters Laboratories and meet the requirements of the following Canadian Standard:

- CSA 22.2 No. 158 — Terminal Blocks

Reference UL file E195677

CSA (Canadian Standards Association) — Devices in this catalog with this rating have been tested by the Canadian Standards Association and meet the requirements of the following Canadian Standard:

- CSA 22.2 No. 158 — Terminal Blocks

Reference CSA files 205830 and 206918

CE Terminal blocks listed in this catalog (with the exception of the V7-WTC3E, -WTC3J, and -WTC3T) meet the requirements of the Low Voltage Directive put forth by the European Union. Devices have been tested and comply with one or more of the following European Norms:

- EN 50947-1 — Low Voltage Switchgear and Controlgear: General Rules
- EN 60947-7-1 — Low Voltage Switchgear and Controlgear: Terminal Blocks for Copper Conductors
- EN 60947-7-2 — Low Voltage Switchgear and Controlgear: Protective Conductor Terminal Blocks for Copper Conductors

IEC (International Electrotechnical Commission) — Devices listed in this catalog with “IEC” ratings meet the requirements of one or more of the following standards:

- IEC 60947-1 — Low Voltage Switchgear and Controlgear: General Rules
- IEC 60947-7-1 — Low Voltage Switchgear and Controlgear. Part 7: Ancillary Equipment, Section 1: Terminal Blocks for Copper Conductors
- IEC 60947-7-2 — Low Voltage Switchgear and Controlgear. Part 7: Ancillary Equipment, Section 2: Protective Conductor Terminal Blocks for Copper Conductors

Ex e II — Devices listed in this catalog with an “Ex e II” rating meet the following Canadian Standards per Underwriters Laboratories:

- E79-0-95 — Electrical Apparatus for Explosive Atmospheres — Part 0 — General Requirements
- E79-7-95 — Electrical Apparatus for Explosive Atmospheres — Part 7 — Increased Safety “e”

These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E195676

AEx e II Devices listed in this catalog with an “AEx e II” rating meet the following United States Standard per Underwriters Laboratories:

- UL 2279 — Standard for Electrical Equipment for Use in Class I, Zone 0, 1, and 2 Hazardous (Classified) Locations

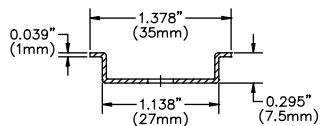
These products are suitable for Class I, Zone 1 Hazardous Locations. Reference UL file E195676

V7 Terminal Approvals

Catalog Number V7-...	UL Approvals								CSA Certifications	
	Terminal Block - Component			Terminal Blocks - For Use in Hazardous Locations			Grounding and Bonding Equipment-Component		Terminal Blocks	
	UR	cUR	File No.	UR	cUR	File No.	UR	File No.	CSA	File No.
	(XCFR2)	(XCFR8)		(XCIB2)	(XCIB8)		(KDER2)		(622801)	
H4	X		E195677						X	206918
H5	X		E195677						X	206918
H6	X		E195677						X	206918
H7	X		E195677						X	206918
W10	X		E195677	X	X	E195676			X	206918
W16S	X		E195677	X	X	E195676			X	206918
W3	X		E195677	X	X	E195676			X	206918
W35	X	X	E195677	X	X	E195676			X	205830
W3TW	X		E195677	X	X	E195676			X	206918
W4	X		E195677	X	X	E195676			X	206918
W4P	X		E195677						X	206918
W4PTP	X		E195677						X	206918
W6	X		E195677	X	X	E195676			X	206918
W70	X	X	E195677	X	X	E195676			X	205830
WD3	X		E195677	X	X	E195676			X	206918
WD4	X		E195677	X	X	E195676			X	206918
WD4C	X		E195677	X	X	E195676			X	206918
WD4DF	X		E195677						X	206918
WD4DR	X		E195677						X	206918
WD4P	X		E195677						X	206918
WD6	X	X	E195677						X	205830
WDG4P	X		E195677						X	206918
WDG4C	X	X	E195677							
WFB4	X		E195677						X	206918
WFB424	X		E195677						X	206918
WFB4250	X		E195677						X	206918
WFB10V	X	X	E195677							
WFB10VA	X	X	E195677							
WG10	X	X	E195677	X	X	E195676	X	E195567		
WG16	X	X	E195677	X	X	E195676	X	E195567	X	205830
WG35	X	X	E195677	X	X	E195676	X	E195567	X	205830
WG4	X		E195677	X	X	E195676			X	206918
WG6	X		E195677	X	X	E195676			X	206918
WG70	X	X	E195677							
WKD3	X		E195677						X	206918
WKD3TP	X		E195677						X	206918
WKD6	X	X	E195677						X	205830
WR3	X		E195677						X	206918
WTF3	X		E195677						X	206918
WTF3LN	X		E195677						X	206918
WTF3LP	X		E195677						X	206918
WTS3	X		E195677						X	206918
WTS3LN	X		E195677						X	206918
WTS3LP	X		E195677						X	206918

3F Top Hat Low Profile DIN Rail

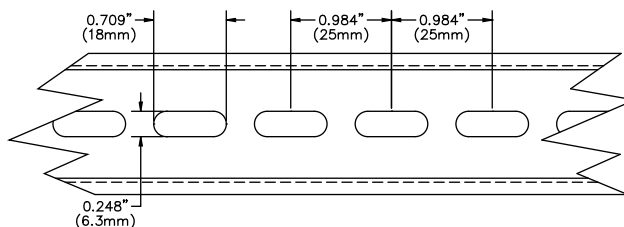
Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.



FRONT SECTION

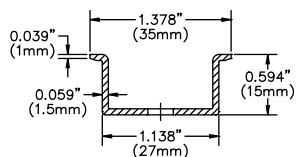


RIGHT SIDE VIEW

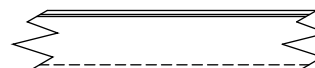


BASE PERFORATION

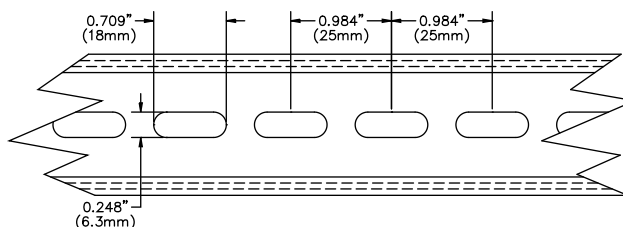
3AF Top Hat High Profile DIN Rail



FRONT SECTION



RIGHT SIDE VIEW



BASE PERFORATION

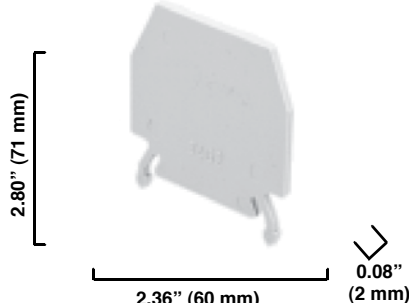
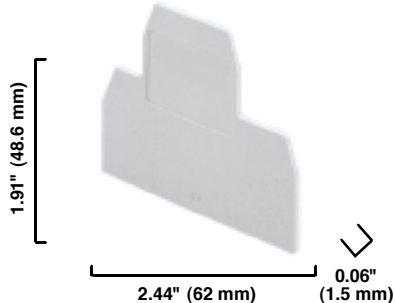
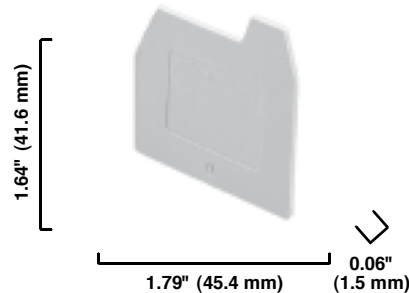
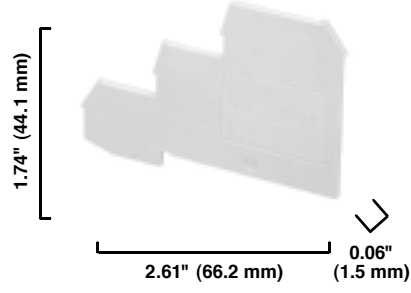
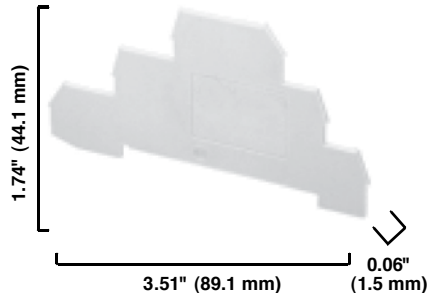
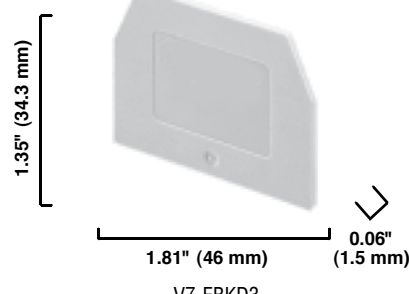
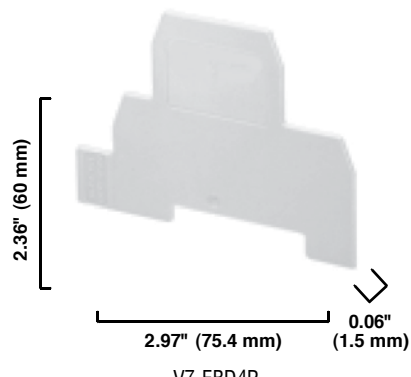
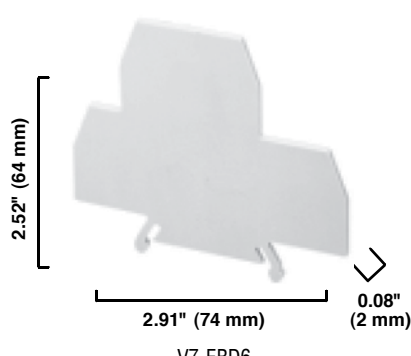
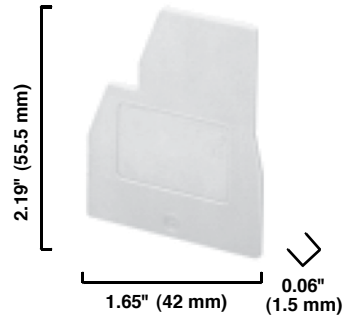
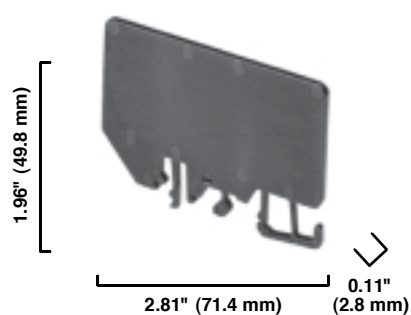
End Anchors

 1.09" (27.6 mm) 2.04" (51.9 mm) 0.31" (8 mm) V7-EA35	 1.97" (50 mm) 0.47" (12 mm) V7-EAH3	 0.93" (23.7 mm) 1.78" (45.2 mm) 0.31" (8 mm) V7-ER35
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Partition Plates

 2.99" (76 mm) 2.68" (68 mm) 0.08" (2 mm) V7-PP35	 B A C <table><tr><th>Catalog #</th><th>A</th><th>B</th><th>C</th></tr><tr><td>V7-PP3</td><td>1.85" (47 mm)</td><td>1.57" (40 mm)</td><td>0.06" (1.5 mm)</td></tr><tr><td>V7-PP10</td><td>2.17" (55 mm)</td><td>1.81" (46 mm)</td><td>0.06" (1.5 mm)</td></tr><tr><td>V7-PPSL3</td><td>2.20" (56 mm)</td><td>1.54" (39 mm)</td><td>0.08" (2 mm)</td></tr></table>	Catalog #	A	B	C	V7-PP3	1.85" (47 mm)	1.57" (40 mm)	0.06" (1.5 mm)	V7-PP10	2.17" (55 mm)	1.81" (46 mm)	0.06" (1.5 mm)	V7-PPSL3	2.20" (56 mm)	1.54" (39 mm)	0.08" (2 mm)	 B A C <table><tr><th>Catalog #</th><th>A</th><th>B</th><th>C</th></tr><tr><td>V7-PPD3</td><td>2.82" (71.6 mm)</td><td>2.09" (53.2 mm)</td><td>0.08" (2 mm)</td></tr><tr><td>V7-PPD6</td><td>3.31" (84 mm)</td><td>2.72" (69 mm)</td><td>0.08" (2 mm)</td></tr></table>	Catalog #	A	B	C	V7-PPD3	2.82" (71.6 mm)	2.09" (53.2 mm)	0.08" (2 mm)	V7-PPD6	3.31" (84 mm)	2.72" (69 mm)	0.08" (2 mm)
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V7-PPD3	2.82" (71.6 mm)	2.09" (53.2 mm)	0.08" (2 mm)																											
V7-PPD6	3.31" (84 mm)	2.72" (69 mm)	0.08" (2 mm)																											
 1.85" (47.1 mm) 2.88" (73.2 mm) 0.014" (0.35 mm) V7-PPTS3	 1.57" (40.0 mm) 1.76" (44.8 mm) 0.014" (0.35 mm) V7-SP3	 2.19" (55.5 mm) 2.44" (62.0 mm) 0.014" (0.35 mm) V7-SPD3																												

End Barriers

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 Diagram of V7-EB3 end barrier showing dimensions A, B, and C. <table><tr><th>Catalog #</th><th>A</th><th>B</th><th>C</th></tr><tr><td>V7-EB3</td><td>1.46"</td><td>1.38"</td><td>0.06"</td></tr><tr><td>V7-EB3-Y</td><td>(37 mm)</td><td>(35 mm)</td><td>(1.5mm)</td></tr><tr><td>V7-EB10</td><td>1.77"</td><td>1.61"</td><td>0.06"</td></tr><tr><td>V7-EB10-Y</td><td>(45 mm)</td><td>(41 mm)</td><td>(1.5 mm)</td></tr></table>	Catalog #	A	B	C	V7-EB3	1.46"	1.38"	0.06"	V7-EB3-Y	(37 mm)	(35 mm)	(1.5mm)	V7-EB10	1.77"	1.61"	0.06"	V7-EB10-Y	(45 mm)	(41 mm)	(1.5 mm)	 Diagram of V7-EB35 end barrier showing dimensions 2.36" (60 mm) and 0.08" (2 mm). V7-EB35	 Diagram of V7-EBD3/Y end barrier showing dimensions 2.44" (62 mm) and 0.06" (1.5 mm). V7-EBD3/Y
Catalog #	A	B	C																			
V7-EB3	1.46"	1.38"	0.06"																			
V7-EB3-Y	(37 mm)	(35 mm)	(1.5mm)																			
V7-EB10	1.77"	1.61"	0.06"																			
V7-EB10-Y	(45 mm)	(41 mm)	(1.5 mm)																			
 Diagram of V7-EB3TW end barrier showing dimensions 1.79" (45.4 mm) and 0.06" (1.5 mm). V7-EB3TW	 Diagram of V7-EBTS3 end barrier showing dimensions 2.61" (66.2 mm) and 0.06" (1.5 mm). V7-EBTS3	 Diagram of V7-EBTF3 end barrier showing dimensions 3.51" (89.1 mm) and 0.06" (1.5 mm). V7-EBTF3																				
 Diagram of V7-EBKD3 end barrier showing dimensions 1.81" (46 mm) and 0.06" (1.5 mm). V7-EBKD3	 Diagram of V7-EBD4P end barrier showing dimensions 2.97" (75.4 mm) and 0.06" (1.5 mm). V7-EBD4P	 Diagram of V7-EBD6 end barrier showing dimensions 2.91" (74 mm) and 0.08" (2 mm). V7-EBD6																				
 Diagram of V7-EBR3 end barrier showing dimensions 1.65" (42 mm) and 0.06" (1.5 mm). V7-EBR3	 Diagram of V7-N37 end barrier showing dimensions 2.81" (71.4 mm) and 0.11" (2.8 mm). V7-N37																					

Notes