



VAL-US series

UL Listed surge protection devices

UL Listed surge protection devices

The VAL-US series is a UL Listed series of pluggable surge protection devices (SPDs) that utilize high-capacity varistors to provide high-quality protection. The VAL-US series offers status indication contacts for remote monitoring, as well as hot-swappable plugs with integrated visual status indication for easy maintenance and replacement.

As UL Open Type 1 Listed devices, these products are integrated easily into new and existing systems and applications. UL recently added the “Open Type” description to complement the traditional hard-wired SPDs. This rating allows DIN rail-mounted surge protection to be UL Listed as delivered with field-wiring terminals. Implementation of these high-performance surge protection devices is easier than ever for panel builders and OEMs, and can be accomplished without any additional safety evaluations.

Surge protection is now mandatory for safety and critical operations data systems in the USA. The National Fire Protection Association (NFPA) 79: Electrical Standard for Industrial Machinery, a complementary document of the National Electrical Code (NEC), outlines requirements for the protection of operators, equipment, facilities, and work-in-progress. The 2018 edition of NFPA 79 now requires UL Listed surge protection to protect these vital applications. Ensure your equipment is ready with the VAL-US product line.



Key benefits

- ✓ UL Open Type 1 Listed for easy integration into existing applications
- ✓ NFPA 79 (2018) ready for safety and critical operations data systems
- ✓ Available for all standard U.S. power configurations
- ✓ 200 kA SCCR
- ✓ Remote and visual status indication to easily monitor your system's health
- ✓ Keyed plugs and bases to ensure correct placement
- ✓ Integrated marking locations
- ✓ Testable with CHECKMASTER



For more information, visit:
www.phoenixcontact.com/val-us

How can you provide the correct protection?

Effective surge protection starts with assessing the potential risk and identifying all the devices within the application to be protected. The resulting protection concept takes into account all the interfaces of the power supply unit as well as those for data and telecommunications. This is the only way to comprehensively and effectively protect all the end devices within a data network, production plant, or building installation. By combining high-quality protective devices with innovative arrester technology, surge protective devices ensure a high degree of system availability and safety in all areas of electrical engineering.

A clear illustration of the protective concept is the Circle of Protection. An imaginary circle is drawn around the object to be protected. A surge protective device should be installed at all points where cables intersect this circle. The area within the protective circuit is therefore protected in such a way that conducted surge voltage couplings are mitigated.

The protective circle must include all electrical and electronic transmission lines in the following areas:

- Power supply
- Measurement and control technology
- Information technology
- Transceiver systems



Single-phase

VALVETRAB US – Single-phase



2-conductor system, L, N/G,
single-phase

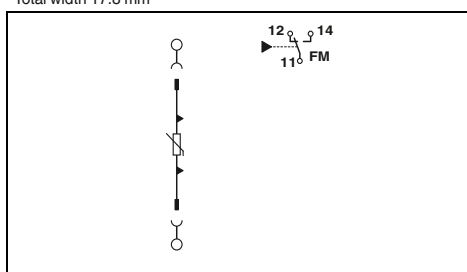


2-conductor system, L, N/G,
single-phase

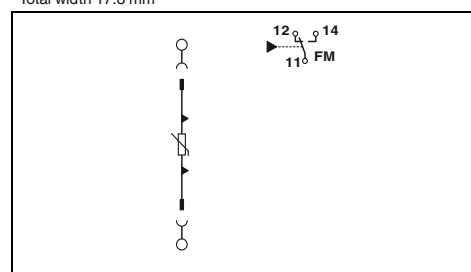
Testable with CHECKMASTER



Total width 17.8 mm



Total width 17.8 mm



Technical data

Electrical data	...120/40...	...120/65...	...240/40...
UL type	type 1	type 1	type 1
Nominal voltage U_N	120 V AC (Single-phase)	120 V AC (Single-phase)	240 V AC (Single-phase)
Mode of protection	L-N	L-N / L-G	L-N / L-G
Maximum continuous operating voltage (MCOV)	175 V AC	175 V AC	385 V AC

Nominal discharge current I_n	20 kA	20 kA	20 kA
Total discharge current I_{total} (8/20) μ s	40 kA	65 kA	40 kA
Maximum surge current per phase	40 kA	65 kA	40 kA
Voltage protection rating (VPR)	700 V	700 V	1500 V

Short-circuit current rating (SCCR)	200 kA	200 kA	200 kA
-------------------------------------	--------	--------	--------

General data	
Dimensions W/H/D	17.8 mm / 96.8 mm / 65.5 mm
UL connection data	AWG 10 ... 2
Standards/specifications	UL 1449 Edition 4
Remote indication contact	PDT contact
UL connection data	AWG 30 ... 14
Max. operating voltage	125 V AC
Max. operating current	1 A AC

Ordering data

Type	Order No.	Pcs./Pkt.
VAL-US-120/40/1+0-FM	2910348	1
VAL-US-120/65/1+0-FM	2910355	1
VAL-US-240/40/1+0-FM	2910361	1

Accessories

VAL-US-120/40-P	2910335	1
VAL-US-120/65-P	2910330	1
VAL-US-240/40-P	2910336	1

Technical data

Electrical data	...277/40...	...277/80...	...347/30...
UL type	type 1	type 1	type 1
Nominal voltage U_N	277 V AC (Single-phase)	277/480 V AC (Single-phase)	347 V AC (Single-phase)
Mode of protection	L-N / L-G	L-N / L-G	L-N / L-G
Maximum continuous operating voltage (MCOV)	385 V AC	385 V AC	580 V AC

Nominal discharge current I_n	20 kA	20 kA	20 kA
Total discharge current I_{total} (8/20) μ s	40 kA	80 kA	30 kA
Maximum surge current per phase	40 kA	80 kA	30 kA
Voltage protection rating (VPR)	1500 V	1500 V	2000 V

Short-circuit current rating (SCCR)	200 kA	200 kA	200 kA
-------------------------------------	--------	--------	--------

General data	
Dimensions W/H/D	17.8 mm / 96.8 mm / 65.5 mm
UL connection data	AWG 10 ... 2
Standards/specifications	UL 1449 Edition 4
Remote indication contact	PDT contact
UL connection data	AWG 30 ... 14
Max. operating voltage	125 V AC
Max. operating current	1 A AC

Ordering data

Type	Order No.	Pcs./Pkt.
VAL-US-277/40/1+0-FM	2910372	1
VAL-US-277/80/1+0-FM	2910377	1
VAL-US-347/30/1+0-FM	2910381	1

Accessories

VAL-US-277/40-P	2910338	1
VAL-US-277/80-P	2910331	1
VAL-US-347/30-P	2910339	1

Description	
VALVETRAB US	

Replacement plug	
L-N/L-G/N-G	
L-N/L-G/N-G	
L-N/L-G/N-G	
N-G	
N-G	

Single-phase



3-conductor system, L, N, G,
single-phase



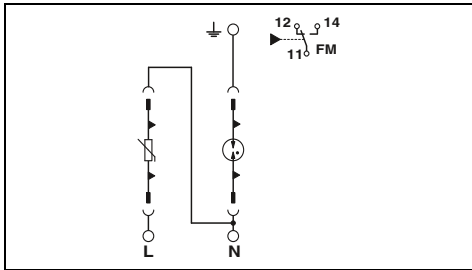
3-conductor system, L, N, G, single-phase,
gas-filled surge arrester between N-G



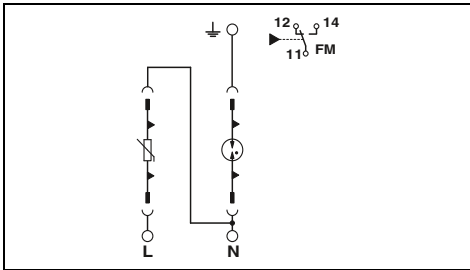
3-conductor system, L, N, G,
single-phase, varistor between N-G



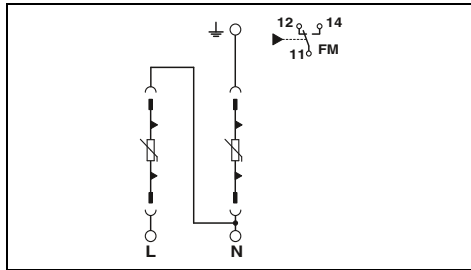
Total width 35.6 mm



Total width 35.6 mm



Total width 35.6 mm



Technical data

...120/40...	...120/65...
type 1	type 1
120 V AC	120 V AC
L-N / L-G / N-G	L-N / L-G / N-G
L-N: 175 V AC	L-N: 175 V AC
L-G: 175 V AC	L-G: 175 V AC
N-G: 305 V AC	N-G: 264 V AC
20 kA	20 kA
80 kA	130 kA
40 kA	65 kA
L-N: 700 V	L-N: 700 V
L-G: 1800 V	L-G: 1500 V
N-G: 1200 V	N-G: 1200 V
200 kA	200 kA

35.6 mm / 96.8 mm / 65.5 mm

10 ... 2

UL 1449 Edition 4

PDT contact

30 ... 14

125 V AC

1 A AC

Technical data

...240/40...	...277/40...
type 1	type 1
240 V AC	277 V AC
L-N / L-G / N-G	L-N / L-G / N-G
L-N: 385 V AC	L-N: 385 V AC
L-G: 385 V AC	L-G: 385 V AC
N-G: 305 V AC	N-G: 305 V AC
20 kA	20 kA
80 kA	80 kA
40 kA	40 kA
L-N: 1500 V	L-N: 1500 V
L-G: 2000 V	L-G: 2000 V
N-G: 1200 V	N-G: 1200 V
200 kA	200 kA

35.6 mm / 96.8 mm / 65.5 mm

10 ... 2

UL 1449 Edition 4

PDT contact

30 ... 14

125 V AC

1 A AC

Technical data

...277/80...	...347/30...
type 1	type 1
277 V AC	347 V AC
L-N / L-G / N-G	L-N / L-G / N-G
L-N: 385 V AC	L-N: 580 V AC
L-G: 750 V AC	L-G: 750 V AC
N-G: 385 V AC	N-G: 580 V AC
20 kA	20 kA
160 kA	60 kA
80 kA	30 kA
L-N: 1500 V	L-N: 2000 V
L-G: 2500 V	L-G: 4000 V
N-G: 1200 V	N-G: 2000 V
200 kA	200 kA

35.6 mm / 96.8 mm / 65.5 mm

10 ... 2

UL 1449 Edition 4

PDT contact

30 ... 14

125 V AC

1 A AC

Ordering data

Type	Order No.	Pcs./Pkt.
VAL-US-120/40/1+1-FM	2910349	1
VAL-US-120/65/1+1-FM	2910356	1

Accessories

VAL-US-120/40-P	2910335	1
VAL-US-120/65-P	2910330	1
GDT-US-NG/40-P	2910342	1
GDT-US-NG/80-P	2910332	1

Ordering data

Type	Order No.	Pcs./Pkt.
VAL-US-240/40/1+1-FM	2910362	1
VAL-US-277/40/1+1-FM	2910373	1

Accessories

VAL-US-240/40-P	2910336	1
VAL-US-277/40-P	2910338	1
GDT-US-NG/40-P	2910342	1

Ordering data

Type	Order No.	Pcs./Pkt.
VAL-US-277/80/1+1V-FM	2910378	1
VAL-US-347/30/1+1V-FM	2910382	1

Accessories

VAL-US-277/80-P	2910331	1
VAL-US-347/30-P	2910339	1

Split-phase

VALTRAB US – Split-phase



3-conductor system, L1, L2, G,
split-phase

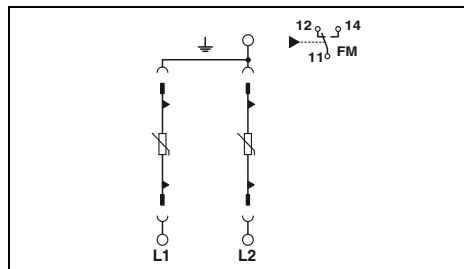


4-conductor system, L1, L2, N, G,
split-phase

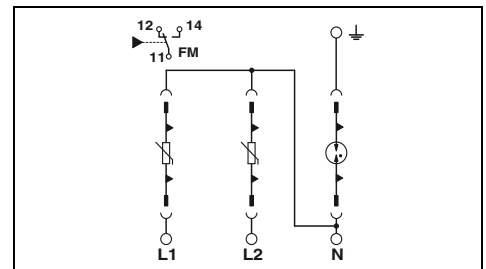
Testable with CHECKMASTER



Total width 35.6 mm



Total width 53.4 mm



Technical data

Electrical data	...120/40...	...120/65...	...240/40...
UL type	type 1	type 1	type 1
Nominal voltage U_N	120/240 V AC (Split-phase)	120/240 V AC (Split-phase)	240 V AC
Mode of protection	L-L / L-G	L-L / L-G	L-L / L-G
Maximum continuous operating voltage (MCOV)	L-L: 350 V AC L-G: 175 V AC	L-L: 350 V AC L-G: 175 V AC	L-L: 750 V AC L-G: 385 V AC
Nominal discharge current I_n	20 kA	20 kA	20 kA
Total discharge current I_{total} (8/20) μ s	80 kA	130 kA	80 kA
Maximum surge current per phase	40 kA	65 kA	40 kA
Voltage protection rating (VPR)	L-L: 1200 V L-G: 700 V	L-L: 1200 V L-G: 700 V	L-L: 2500 V L-G: 1500 V
Short-circuit current rating (SCCR)	200 kA	200 kA	200 kA

Ordering data

Description	Type	Order No.	Pcs./Pkt.
VALVETRAB US			
	VAL-US-120/40/2+0-FM	2910351	1
	VAL-US-120/65/2+0-FM	2910357	1
	VAL-US-240/40/2+0-FM	2910364	1

Accessories

Replacement plug	Type	Order No.	Pcs./Pkt.
L-N/L-G/N-G	VAL-US-120/40-P	2910335	1
L-N/L-G/N-G	VAL-US-120/65-P	2910330	1
L-N/L-G/N-G	VAL-US-240/40-P	2910336	1
N-G			
N-G			

Technical data

Electrical data	...120/40...	...120/65...	...240/40...
UL type	type 1	type 1	type 1
Nominal voltage U_N	120/240 V AC (Split-phase)	120/240 V AC (Split-phase)	240 V AC
Mode of protection	L-L / L-N / L-G / N-G	L-L / L-N / L-G / N-G	L-L / L-N / L-G / N-G
Maximum continuous operating voltage (MCOV)	L-L: 350 V AC L-N: 175 V AC L-G: 175 V AC N-G: 305 V AC	L-L: 350 V AC L-N: 175 V AC L-G: 175 V AC N-G: 264 V AC	L-L: 750 V AC L-N: 385 V AC L-G: 385 V AC N-G: 305 V AC
Nominal discharge current I_n	20 kA	20 kA	20 kA
Total discharge current I_{total} (8/20) μ s	120 kA	195 kA	120 kA
Maximum surge current per phase	40 kA	65 kA	40 kA
Voltage protection rating (VPR)	L-L: 1200 V L-N: 700 V L-G: 1800 V N-G: 1200 V	L-L: 1200 V L-N: 700 V L-G: 1500 V N-G: 1200 V	L-L: 2500 V L-N: 1500 V L-G: 2000 V N-G: 1200 V
Short-circuit current rating (SCCR)	200 kA	200 kA	200 kA

Ordering data

Description	Type	Order No.	Pcs./Pkt.
VALVETRAB US			
	VAL-US-120/40/2+1-FM	2910352	1
	VAL-US-120/65/2+1-FM	2910358	1
	VAL-US-240/40/2+1-FM	2910365	1

Accessories

Replacement plug	Type	Order No.	Pcs./Pkt.
L-N/L-G/N-G	VAL-US-120/40-P	2910335	1
L-N/L-G/N-G	VAL-US-120/65-P	2910330	1
L-N/L-G/N-G	VAL-US-240/40-P	2910336	1
N-G	GDT-US-NG/40-P	2910342	1
N-G	GDT-US-NG/80-P	2910332	1

3-phase wye

VALTRAB US – 3-phase wye



Testable with CHECKMASTER



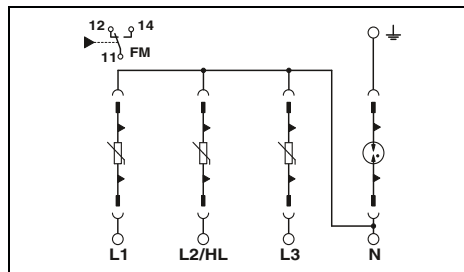
5-conductor system, L1, L2, L3, N, G,
3-phase wye



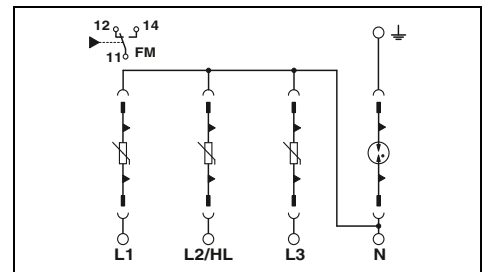
5-conductor system, L1, L2, L3, N, G,
3-phase wye



Total width 71.2 mm



Total width 71.2 mm



Electrical data	
UL type	
Nominal voltage U_N	
Mode of protection	
Maximum continuous operating voltage (MCOV)	
Nominal discharge current I_n	
Total discharge current I_{total} (8/20) μ s	
Maximum surge current per phase	
Voltage protection rating (VPR)	
Short-circuit current rating (SCCR)	
General data	
Dimensions W/H/D	AWG
UL connection data	AWG
Standards/specifications	
Remote indication contact	
UL connection data	AWG
Max. operating voltage	
Max. operating current	

Technical data	
...120/40...	...120/65...
type 1	type 1
120/208 V AC (Wye)	120/208 V AC (Wye)
L-N / N-G / L-G	L-N / N-G / L-G
L-L: 350 V AC	L-L: 350 V AC
L-N: 175 V AC	L-N: 175 V AC
L-G: 175 V AC	L-G: 175 V AC
N-G: 305 V AC	N-G: 264 V AC
20 kA	20 kA
160 kA	260 kA
40 kA	65 kA
L-L: 1200 V	L-L: 1200 V
L-N: 700 V	L-N: 700 V
L-G: 1800 V	L-G: 1500 V
N-G: 1200 V	N-G: 1200 V
200 kA	200 kA
71.2 mm / 98.7 mm / 65.5 mm	
10 ... 2	
UL 1449 Edition 4	
PDT contact	
30 ... 14	
125 V AC	
1 A AC	

Technical data	
...240/40...	...277/40...
type 1	type 1
240/415 V AC (Wye)	277/480 V AC (Wye)
L-N / N-G / L-G	L-N / N-G / L-G
L-L: 750 V AC	L-L: 750 V AC
L-N: 385 V AC	L-N: 385 V AC
L-G: 385 V AC	L-G: 385 V AC
N-G: 305 V AC	N-G: 305 V AC
20 kA	20 kA
160 kA	160 kA
40 kA	40 kA
L-L: 2500 V	L-L: 2500 V
L-N: 1500 V	L-N: 1500 V
L-G: 2000 V	L-G: 2000 V
N-G: 1200 V	N-G: 1200 V
200 kA	200 kA
71.2 mm / 98.7 mm / 65.5 mm	
10 ... 2	
UL 1449 Edition 4	
PDT contact	
30 ... 14	
125 V AC	
1 A AC	

Description	
VALVETRAB US	
Replacement plug	
L-N/L-G/N-G	
L-N/L-G/N-G	
N-G	
N-G	

Ordering data			
Type	Order No.	Pcs./Pkt.	
VAL-US-120/40/3+1-FM	2910354	1	
VAL-US-120/65/3+1-FM	2910360	1	
Accessories			
VAL-US-120/40-P	2910335	1	
VAL-US-120/65-P	2910330	1	
GDT-US-NG/40-P	2910342	1	
GDT-US-NG/80-P	2910332	1	

Ordering data			
Type	Order No.	Pcs./Pkt.	
VAL-US-240/40/3+1-FM	2910367	1	
VAL-US-277/40/3+1-FM	2910374	1	
Accessories			
VAL-US-240/40-P	2910336	1	
VAL-US-277/40-P	2910338	1	
GDT-US-NG/40-P	2910342	1	

3-phase wye



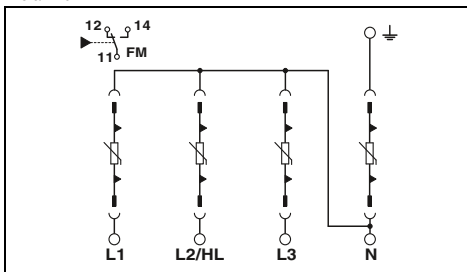
5-conductor system, L1, L2, L3, N, G,
3-phase wye



5-conductor system, L1, L2, L3, N, G,
3-phase wye



Total width 71.2 mm



Technical data

...277/80...	...347/30...
type 1	type 1
277/480 V AC (Wye)	347/600 V AC (Wye) 400/690 V AC (Wye)
L-N / N-G / L-G	L-N / N-G / L-G
L-L: 750 V AC	L-L: 750 V AC
L-N: 385 V AC	L-N: 580 V AC
L-G: 750 V AC	L-G: 750 V AC
N-G: 385 V AC	N-G: 580 V AC
20 kA	20 kA
320 kA	30 kA
80 kA	30 kA
L-L: 2500 V	L-L: 4000 V
L-N: 1500 V	L-N: 2000 V
L-G: 2500 V	L-G: 4000 V
N-G: 1200 V	N-G: 2000 V
200 kA	200 kA

71.2 mm / 98.7 mm / 65.5 mm

10 ... 2

UL 1449 Edition 4

PDT contact

30 ... 14

125 V AC

1 A AC

Ordering data

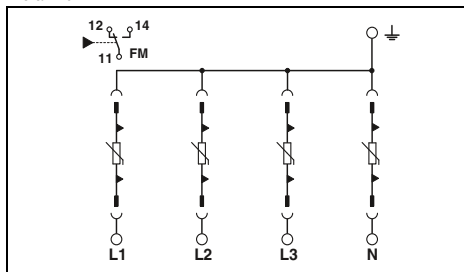
Type	Order No.	Pcs./Pkt.
VAL-US-277/80/3+1V-FM	2910379	1
VAL-US-347/30/3+1V-FM	1079099	1

Accessories

VAL-US-277/80-P	2910331	1
VAL-US-347/30-P	2910339	1



Total width 71.2 mm



Technical data

...277/40...	...277/80...
type 1	type 1
277/480 V AC	277/480 V AC
L-L / L-N / L-G / N-G	L-L / L-N / L-G / N-G
L-L: 750 V AC	L-L: 750 V AC
L-N: 750 V AC	L-N: 750 V AC
L-G: 385 V AC	L-G: 385 V AC
N-G: 385 V AC	N-G: 385 V AC
20 kA	20 kA
160 kA	320 kA
40 kA	80 kA
L-L: 2500 V	L-L: 2500 V
L-N: 1500 V	L-N: 2500 V
L-G: 2000 V	L-G: 1500 V
N-G: 1500 V	N-G: 1200 V
200 kA	200 kA

71.2 mm / 98.7 mm / 65.5 mm

10 ... 2

UL 1449 Edition 4

PDT contact

30 ... 14

125 V AC

1 A AC

Ordering data

Type	Order No.	Pcs./Pkt.
VAL-US-277/40/4+0-FM	2910375	1
VAL-US-277/80/4+0-FM	2910380	1

Accessories

VAL-US-277/40-P	2910338	1
VAL-US-277/80-P	2910331	1

VALTRAB US – Delta



2-conductor system, L, N/G,
single-phase for delta

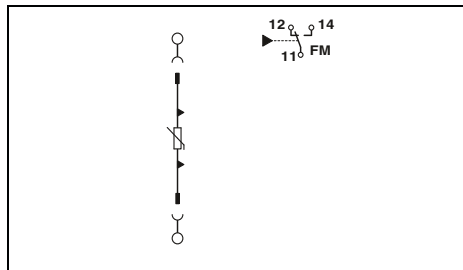


3-conductor system, L1, L2, G,
3-phase corner-grounded delta

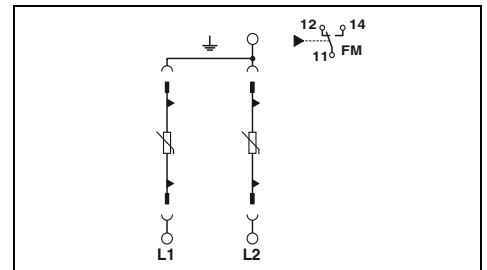
Testable with CHECKMASTER



Total width 17.8 mm



Total width 35.6 mm



Technical data

Electrical data	...240D/40...	...480D/30...	...600D/30...
UL type	type 1	type 1	type 1
Nominal voltage U_N	240 V AC (Single-phase)	480 V AC (Single-phase)	600 V AC
Mode of protection	L-G	L-G	L-G
Maximum continuous operating voltage (MCOV)	275 V AC	580 V AC	750 V AC
Nominal discharge current I_n	20 kA	20 kA	20 kA
Total discharge current I_{total} (8/20) μ s	40 kA	30 kA	30 kA
Maximum surge current per phase	40 kA	30 kA	30 kA
Voltage protection rating (VPR)	1000 V	2000 V	2500 V

Technical data

Electrical data	...240D/40...	...480D/30...	...600D/30...
UL type	type 1	type 1	type 1
Nominal voltage U_N	240 V AC (3-phase corner-grounded delta)	480 V AC (3-phase corner-grounded delta)	600 V AC
Mode of protection	L-L / L-G	L-L / L-G	L-L / L-G
Maximum continuous operating voltage (MCOV)	L-L: 550 V L-G: 275 V AC	L-L: 750 V AC L-G: 580 V AC	L-L: 750 V AC L-G: 750 V AC
Nominal discharge current I_n	20 kA	20 kA	20 kA
Total discharge current I_{total} (8/20) μ s	80 kA	60 kA	60 kA
Maximum surge current per phase	40 kA	30 kA	30 kA
Voltage protection rating (VPR)	L-L: 1800 V L-G: 1000 V	L-L: 4000 V L-G: 2000 V	L-L: 4000 V L-G: 2500 V

Short-circuit current rating (SCCR)	200 kA	200 kA	200 kA
General data			
Dimensions W/H/D	17.8 mm / 96.8 mm / 65.5 mm		
UL connection data	AWG	10 ... 2	
Standards/specifications		UL 1449 Edition 4	
Remote indication contact		PDT contact	
UL connection data	AWG	30 ... 14	
Max. operating voltage		125 V AC	
Max. operating current		1 A AC	

Short-circuit current rating (SCCR)	200 kA	200 kA	200 kA
General data			
Dimensions W/H/D	35.6 mm / 96.8 mm / 65.5 mm		
UL connection data		10 ... 2	
Standards/specifications		UL 1449 Edition 4	
Remote indication contact		PDT contact	
UL connection data		30 ... 14	
Max. operating voltage		125 V AC	
Max. operating current		1 A AC	

Ordering data

Description	Type	Order No.	Pcs./Pkt.
VALVETRAB US			
	VAL-US-240D/40/1+0-FM	2910368	1
	VAL-US-480D/30/1+0-FM	2910384	1
	VAL-US-600D/30/1+0-FM	2910388	1

Accessories

Replacement plug	Type	Order No.	Pcs./Pkt.
L-L/L-G	VAL-US-240D/40-P	2910337	1
L-L/L-G	VAL-US-480D/30-P	2910340	1
L-L/L-G	VAL-US-600D/30-P	2910341	1
N-G			

Ordering data

Description	Type	Order No.	Pcs./Pkt.
VAL-US-240D/40/2+0-FM		2910369	1
VAL-US-480D/30/2+0-FM		2910385	1
VAL-US-600D/30/2+0-FM		2910390	1

Accessories

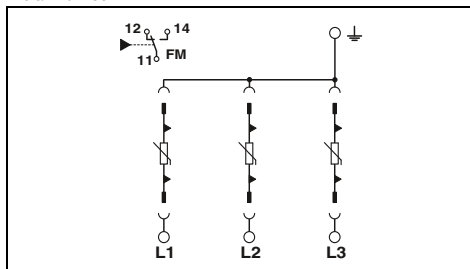
Replacement plug	Type	Order No.	Pcs./Pkt.
L-L/L-G	VAL-US-240D/40-P	2910337	1
L-L/L-G	VAL-US-480D/30-P	2910340	1
L-L/L-G	VAL-US-600D/30-P	2910341	1



4-conductor system, L1, L2, L3, G,
3-phase delta



Total width 53.4 mm



Technical data

...240D/40...	...480D/30...	...600D/30...
type 1	type 1	type 1
240 V AC	480 V AC	600 V AC
(3-phase delta)	(3-phase delta)	
L-L / L-G	L-L / L-G	L-L / L-G
L-L: 550 V AC	L-L: 750 V AC	L-L: 750 V AC
L-G: 275 V AC	L-G: 580 V AC	L-G: 750 V AC
20 kA	20 kA	20 kA
120 kA	90 kA	90 kA
40 kA	30 kA	30 kA
L-L: 1800 V	L-L: 4000 V	L-L: 4000 V
L-G: 1000 V	L-G: 2000 V	L-G: 2500 V

200 kA 200 kA 200 kA

53.4 mm / 98.7 mm / 65.5 mm

10 ... 2

UL 1449 Edition 4

PDT contact

30 ... 14

125 V AC

1 A AC

Ordering data

Type	Order No.	Pcs./Pkt.
VAL-US-240D/40/3+0-FM	2910370	1
VAL-US-480D/30/3+0-FM	2910386	1
VAL-US-600D/30/3+0-FM	2910391	1

Accessories

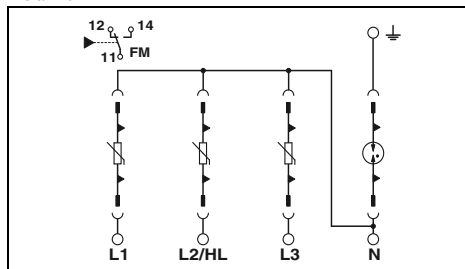
Accessories	Order No.	Pcs./Pkt.
VAL-US-240D/40-P	2910337	1
VAL-US-480D/30-P	2910340	1
VAL-US-600D/30-P	2910341	1



5-conductor system, L1, HL, L3, N, G,
high-leg delta



Total width 71.2 mm



Technical data

...240HLD/40...
type 1
120/240 V AC (High-leg delta)
L-N (HL-N) / N-G / L-G (HL-G)
L-L: 350 V AC
HL-L: 450 V AC
L-N: 175 V AC
HL-N: 275 V AC
L-G: 175 V AC
N-G: 305 V AC
20 kA
160 kA
40 kA
L-L: 1200 V
HL-L: 1500 V
L-N: 700 V
HL-N: 1000 V
L-G: 1200 V
N-G: 1200 V
200 kA

71.2 mm / 98.7 mm / 65.5 mm

10 ... 2

UL 1449 Edition 4

PDT contact

30 ... 14

125 V AC

1 A AC

Ordering data

Type	Order No.	Pcs./Pkt.
VAL-US-240HLD/40/3+1-FM	2910371	1

Accessories

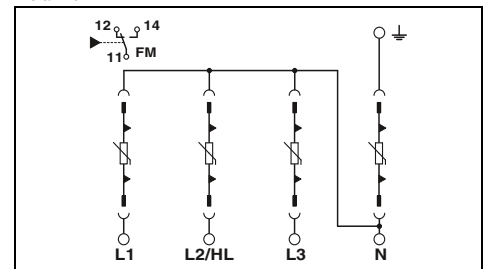
Accessories	Order No.	Pcs./Pkt.
VAL-US-120/40-P	2910335	1
VAL-US-240D/40-P	2910337	1
GDT-US-NG/40-P	2910342	1



5-conductor system, L1, HL, L3, N, G,
high-leg delta



Total width 71.2 mm



Technical data

...480HLD/30...
type 1
240/480 V AC (High-leg delta)
L-N (HL-N) / N-G / L-G (HL-G)
L-L: 750 V AC
HL-L: 750 V AC
L-N: 385 V AC
HL-N: 580 V AC
L-G: 750 V AC
N-G: 385 V AC
20 kA
120 kA
30 kA
L-L: 2500 V
HL-L: 3000 V
L-N: 1500 V
HL-N: 2000 V
L-G: 3000 V
N-G: 1500 V
200 kA

71.2 mm / 98.7 mm / 65.5 mm

10 ... 2

UL 1449 Edition 4

PDT contact

30 ... 14

125 V AC

1 A AC

Ordering data

Type	Order No.	Pcs./Pkt.
VAL-US-480HLD/30/3+1V-FM	2910387	1

Accessories

Accessories	Order No.	Pcs./Pkt.
VAL-US-240/40-P	2910336	1
VAL-US-480D/30-P	2910340	1

The Cabinet Confidence Limited Lifetime Warranty (LLW)

Phoenix Contact offers the industry's most comprehensive warranty program

Phoenix Contact USA customers have access to the industry's most extensive limited lifetime warranty policy. Phoenix Contact's Cabinet Confidence Limited Lifetime Warranty (LLW) applies to a wide range of Phoenix Contact products. LLW coverage is exclusive to U.S. customers who register and use Phoenix Contact power supplies and surge protection to protect electronics in their applications.

"For almost 100 years, engineers and automation professionals have relied on Phoenix Contact," said Jack Nehlig, President of Phoenix Contact USA. "With this exciting new Cabinet Confidence initiative, we are elevating our customer commitment to the next level – our goal is to be our customers' most trusted partner by improving the long-term reliability of their systems and applications."

Phoenix Contact is a world leader in industrial connection and automation technologies, electronic interface systems, and low-voltage power products. This LLW commitment is an extension of the trust customers have come to rely on.

How to register

The following link will step you through the simple Limited Lifetime Warranty registration process. Register at: www.phoenixcontact.com/LLW

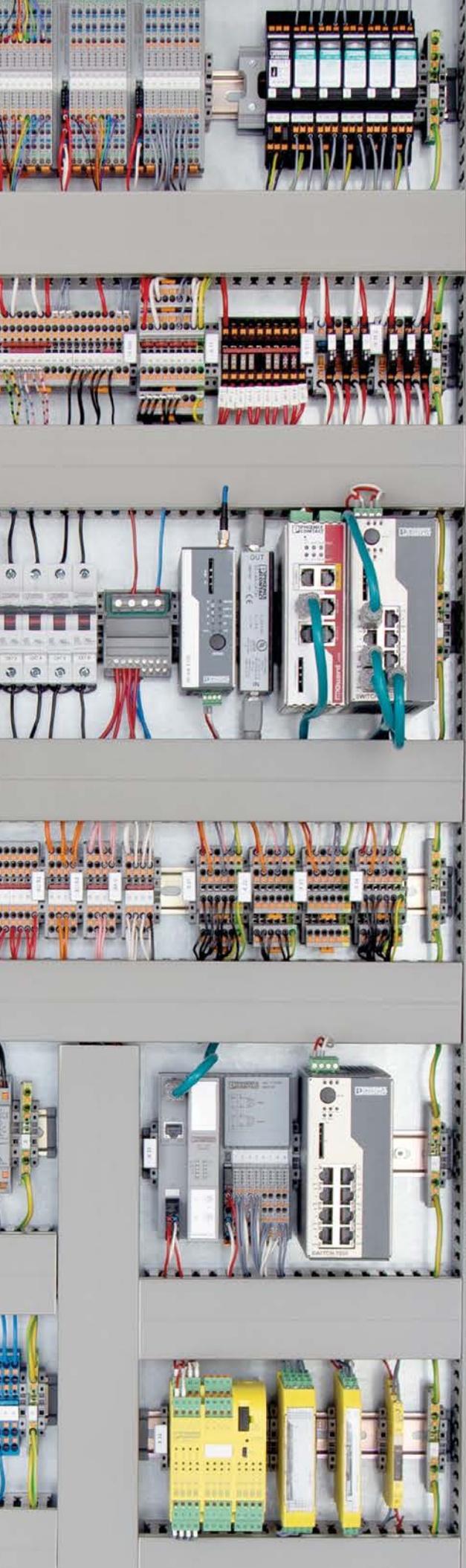
LLW coverage* requires registration and appropriately powering and protecting all Phoenix Contact electronic products with Phoenix Contact power supplies and surge protection at all times.

*Certain restrictions apply. Coverage is limited to Phoenix Contact products sold in the USA. See complete Terms and Conditions for full details.

Common power supplies and surge protection suggested for LLW

System type	Product	Input voltage	Power supply nominal output	Description	Order #
Single phase	Power supply	85 V AC-264 V AC	10 A/24 V DC	QUINT4-PS/1AC/24DC/10	2904601
	Surge protection	120 V AC	-	PLT-SEC-T3-120-FM-UT	2907918
	Surge protection	240 V AC	-	PLT-SEC-T3-230-FM-UT	2907919
Three phase	Power supply	320 V AC-550 V AC	10 A/24 V DC	QUINT4-PS/3AC/24DC/10	2904621
	Surge protection	120/208 V AC	-	VAL-US-120/40/3+1-FM	2910354
	Surge protection	277/480 V AC	-	VAL-US-277/40/3+1-FM	2910374





Notes

[illegible]

Notes

[illegible]

Phoenix Contact is a global market leader based in Germany. We are known for producing future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation. With a global network reaching across more than 100 countries with over 17,400 employees, we maintain close relationships with our customers, something we believe is essential for success.

and solutions in the
d automation.
than 100
maintain



PHOENIX
CONTACT

USA

P.O. Box 4100

Phone: 800-888-7388

717-944-1300

Technical Service: 800-322-3225

Fax: 717-944-1625

Email: info@phoenixcon.com

Website: www.phoenixcontact.com