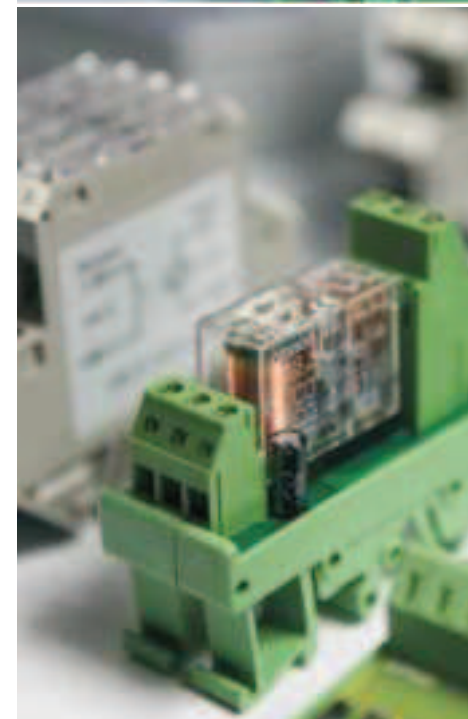




Isolator

Relay module and optocoupler

Switching power supply



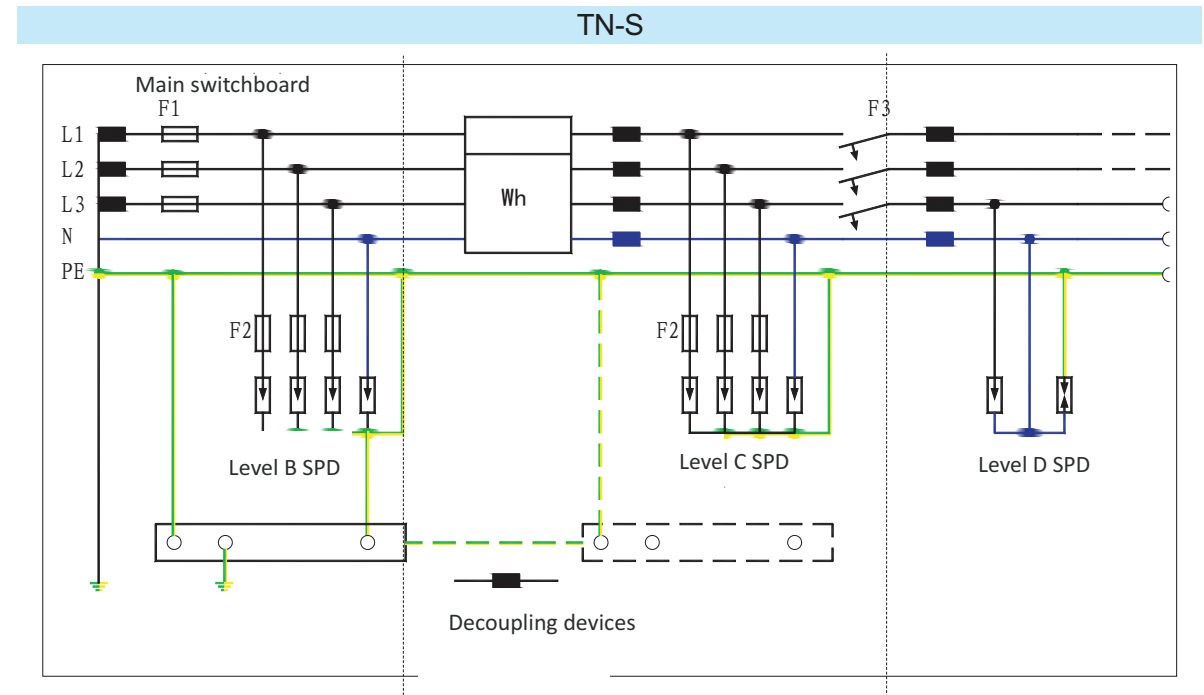
Surge protective device



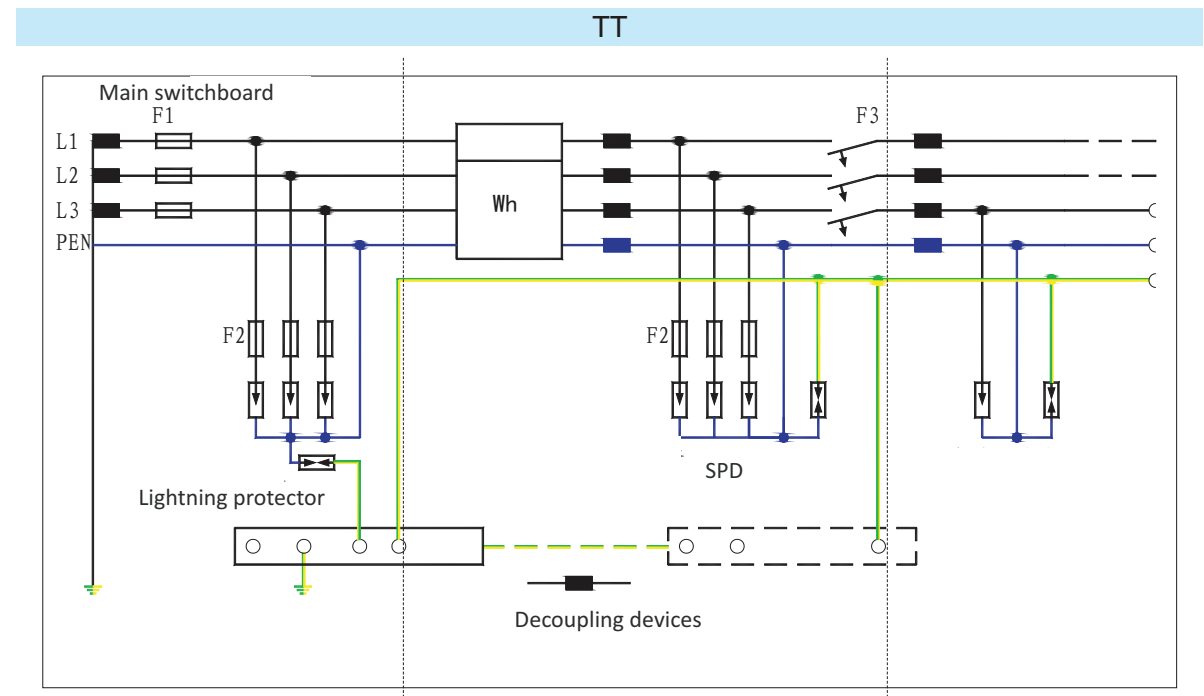
Type

U	B0	1	B	4	385	60
Company code	SPD	Design no.	Lighting protection grade B C D	1P 2P 3P 4P 1+1P 2+1P 3+1P	Max. continuous operating voltage 275V 320V 385V 420V	I _{max} 60KA 40KA 25KA 10KA

U	B0	4	150	4	385
Company code	SPD	Design no. 2. Gas-filled surge arrester 4. Varistor	I _{max} 150KA 100KA 80KA 60KA	1P 2P 3P 4P 1+1P 2+1P 3+1P	Max. continuous operating voltage 275V 320V 385V 420V



Drawing 1

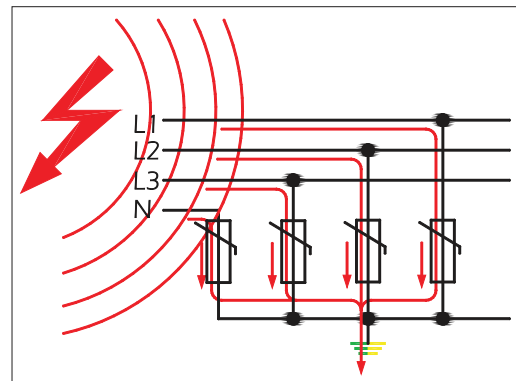


Drawing 2

UB01-D series SPD (for 220/380 VAC, 50/60Hz) can be used to provide a lightning or overvoltage protection to electronic devices in the end of power supply system, such as information networks, intelligent devices and civil buildings.

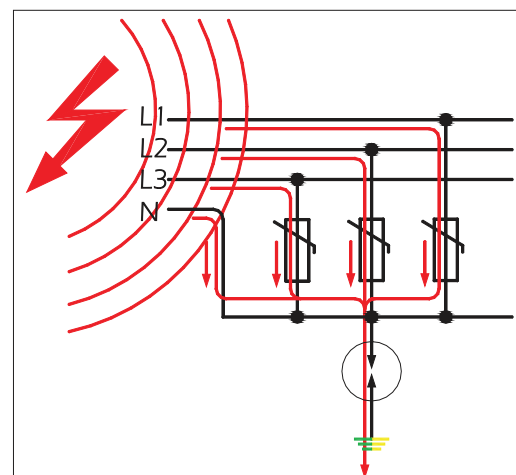
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{nS}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;
7. Plug-in.



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB01-D/□-275-10



Ordering data	Type	Order no.
□ SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P	UB01-D/1-275-10X	380420
	UB01-D/1-275-10	380421
	UB01-D/1+1-275-10X	380422
	UB01-D/1+1-275-10	380423
	UB01-D/2-275-10X	380424
	UB01-D/2-275-10	380425
	UB01-D/2+1-275-10X	380426
	UB01-D/2+1-275-10	380427
	UB01-D/3-275-10X	380428
	UB01-D/3-275-10	380429
	UB01-D/4-275-10X	380430
	UB01-D/4-275-10	380431
	UB01-D/3+1-275-10X	380432
	UB01-D/3+1-275-10	380433

X :With remote indication contact

Dimension	90/18/66mm
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	275V/350V
Max. continuous operating voltage U_c AC/DC	275V/350V
Breakdown voltage U_{1mA}	430V
Nominal discharge current I_n 8/20 μ S	5KA
Max discharge current I_{max} 8/20 μ S	10KA
Voltage protection level U_p	1.0KV
Pre-installed circuit breaker	16A
Pre-installed fuse	16A
Response time	$\leq 25\text{ns}$
Leakage current	$\leq 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	250V/125V
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	6mm ²
Phase	6mm ²
Ground	10mm ²
Remote indication contact	0.5-1.5mm ²

Mounting	TH35-7.5	102001
TH35 rails	TH35-7.5	102001
	TH35-15	102005

General data	PA
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Wiring diagram	Drawing 3
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	See drawing 1/2 on page B6
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SPD for power supply system
UB01-D/□-320-10



Type	Order no.	Type	Order no.
UB01-D/1-320-10X	380434	UB01-D/1-385-10X	380448
UB01-D/1-320-10	380435	UB01-D/1-385-10	380449
UB01-D/1+1-320-10X	380436	UB01-D/1+1-385-10X	380450
UB01-D/1+1-320-10	380437	UB01-D/1+1-385-10	380451
UB01-D/2-320-10X	380438	UB01-D/2-385-10X	380452
UB01-D/2-320-10	380439	UB01-D/2-385-10	380453
UB01-D/2+1-320-10X	380440	UB01-D/2+1-385-10X	380454
UB01-D/2+1-320-10	380441	UB01-D/2+1-385-10	380455
UB01-D/3-320-10X	380442	UB01-D/3-385-10X	380456
UB01-D/3-320-10	380443	UB01-D/3-385-10	380457
UB01-D/4-320-10X	380444	UB01-D/4-385-10X	380458
UB01-D/4-320-10	380445	UB01-D/4-385-10	380459
UB01-D/3+1-320-10X	380446	UB01-D/3+1-385-10X	380460
UB01-D/3+1-320-10	380447	UB01-D/3+1-385-10	380461

Dimension	90/18/66mm
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	320V/415V
Max. continuous operating voltage U_c AC/DC	320V/415V
Breakdown voltage U_{1mA}	510V
Nominal discharge current I_n 8/20 μ S	5KA
Max discharge current I_{max} 8/20 μ S	10KA
Voltage protection level U_p	1.2KV
Pre-installed circuit breaker	16A
Pre-installed fuse	16A
Response time	$\leq 25\text{ns}$
Leakage current	$\leq 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	250V/125V
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	6mm ²
Phase	6mm ²
Ground	10mm ²
Remote indication contact	0.5-1.5mm ²

Mounting	TH35-7.5	102001
TH35 rails	TH35-7.5	102001
	TH35-15	102005

General data	PA
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Wiring diagram	Drawing 3
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	See drawing 1/2 on page B6
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SPD for power supply system
UB01-D/□-385-10



Type	Order no.	Type	Order no.
UB01-D/1-385-10X	380448	UB01-D/1-385-10X	380448
UB01-D/1-385-10	380449	UB01-D/1-385-10	380449
UB01-D/1+1-385-10X	380450	UB01-D/1+1-385-10X	380450
UB01-D/1+1-385-10	380451	UB01-D/1+1-385-10	380451
UB01-D/2-385-10X	380452	UB01-D/2-385-10X	380452
UB01-D/2-385-10	380453	UB01-D/2-385-10	380453
UB01-D/2+1-385-10X	380454	UB01-D/2+1-385-10X	380454
UB01-D/2+1-385-10	380455	UB01-D/2+1-385-10	380455
UB01-D/3-385-10X	380456	UB01-D/3-385-10X	380456
UB01-D/3-385-10	380457	UB01-D/3-385-10	380457
UB01-D/4-385-10X	380458	UB01-D/4-385-10X	380458
UB01-D/4-385-10	380459	UB01-D/4-385-10	380459
UB01-D/3+1-385-10X	380460	UB01-D/3+1-385-10X	380460
UB01-D/3+1-385-10	380461	UB01-D/3+1-385-10	380461

Dimension	90/18/66mm
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	385V/505V
Max. continuous operating voltage U_c AC/DC	385V/505V
Breakdown voltage U_{1mA}	620V
Nominal discharge current I_n 8/20 μ S	5KA
Max discharge current I_{max} 8/20 μ S	10KA
Voltage protection level U_p	1.35KV
Pre-installed circuit breaker	16A
Pre-installed fuse	16A
Response time	$\leq 25\text{ns}$
Leakage current	$\leq 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	250V/125V
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

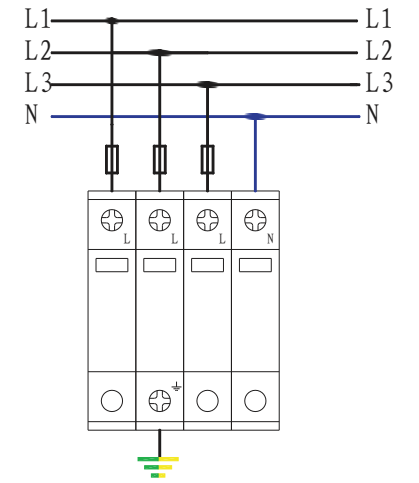
Connection data	6mm ²
Phase	6mm ²
Ground	10mm ²
Remote indication contact	0.5-1.5mm ²

Mounting	TH35-7.5	102001
TH35 rails	TH35-7.5	102001
	TH35-15	102005

General data	PA
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

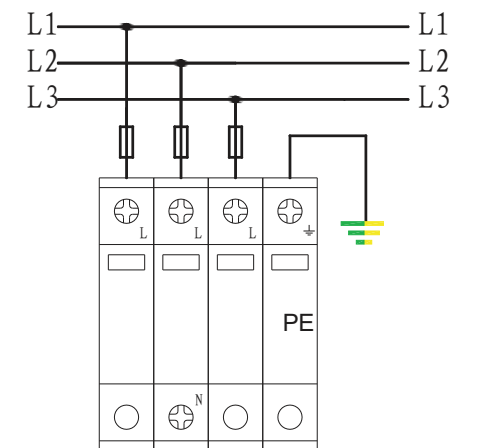
Wiring diagram	Drawing 3
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	See drawing 1/2 on page B6
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Drawing 3

4P wiring diagram



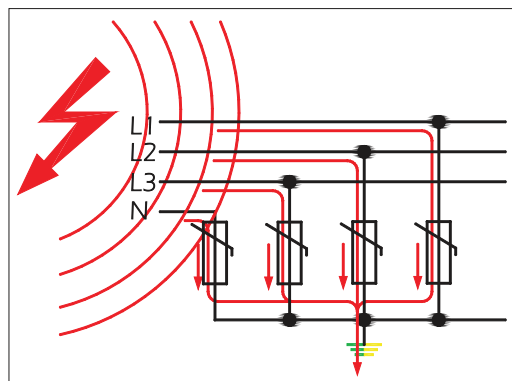
Drawing 4

3+1P wiring diagram

UB01-D series SPD (for 220/380 VAC, 50/60Hz) can be used to provide a lightning or overvoltage protection to electronic devices in the end of power supply system, such as information networks, intelligent devices and civil buildings.

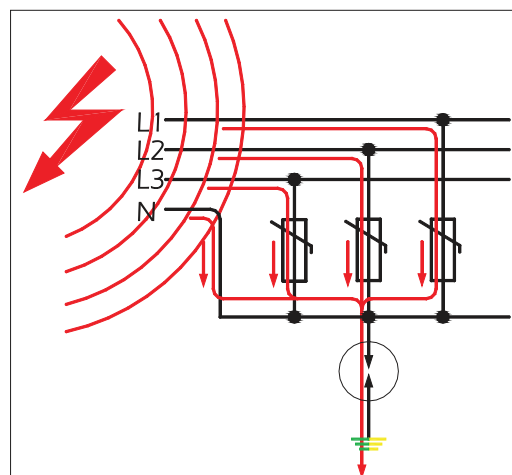
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{ns}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;
7. Plug-in.



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB01-D/□-275-25



Ordering data	Type	Order no.
□ SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P	UB01-D/1-275-25X	380462
	UB01-D/1-275-25	380463
	UB01-D/1+1-275-25X	380464
	UB01-D/1+1-275-25	380465
	UB01-D/2-275-25X	380466
	UB01-D/2-275-25	380467
	UB01-D/2+1-275-25X	380468
	UB01-D/2+1-275-25	380469
	UB01-D/3-275-25X	380470
	UB01-D/3-275-25	380471
	UB01-D/4-275-25X	380472
	UB01-D/4-275-25	380473
	UB01-D/3+1-275-25X	380474
UB01-D/3+1-275-25	380475	

X :With remote indication contact

Dimension	
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	
Max. continuous operating voltage U_c AC/DC	275V/350V
Breakdown voltage U_{1mA}	430V
Nominal discharge current I_n 8/20 μ S	10KA
Max discharge current I_{max} 8/20 μ S	25KA
Voltage protection level U_p	1.2KV
Pre-installed circuit breaker	16A
Pre-installed fuse	16A
Response time	$\leq 25\text{ns}$
Leakage current	$< 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	
Phase	6mm ²
Ground	10mm ²
Remote indication contact	0.5-1.5mm ²

Mounting	
TH35 rails	TH35-7.5 102001 TH35-15 102005

General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Wiring diagram	
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	
	See drawing 1/2 on page B6

SPD for power supply system
UB01-D/□-320-25



Type	Order no.	Type	Order no.
UB01-D/1-320-25X	380476	UB01-D/1-385-25X	380490
UB01-D/1-320-25	380477	UB01-D/1-385-25	380491
UB01-D/1+1-320-25X	380478	UB01-D/1+1-385-25X	380492
UB01-D/1+1-320-25	380479	UB01-D/1+1-385-25	380493
UB01-D/2-320-25X	380480	UB01-D/2-385-25X	380494
UB01-D/2-320-25	380481	UB01-D/2-385-25	380495
UB01-D/2+1-320-25X	380482	UB01-D/2+1-385-25X	380496
UB01-D/2+1-320-25	380483	UB01-D/2+1-385-25	380497
UB01-D/3-320-25X	380484	UB01-D/3-385-25X	380498
UB01-D/3-320-25	380485	UB01-D/3-385-25	380499
UB01-D/4-320-25X	380486	UB01-D/4-385-25X	380500
UB01-D/4-320-25	380487	UB01-D/4-385-25	380501
UB01-D/3+1-320-25X	380488	UB01-D/3+1-385-25X	380502
UB01-D/3+1-320-25	380489	UB01-D/3+1-385-25	380503

Dimension		
Width/Thickness(per piece)/Height	90/18/66mm	90/18/66mm

Technical data		
Max. continuous operating voltage U_c AC/DC	320V/415V	385V/505V
Breakdown voltage U_{1mA}	510V	620V
Nominal discharge current I_n 8/20 μ S	10KA	10KA
Max discharge current I_{max} 8/20 μ S	25KA	25KA
Voltage protection level U_p	1.35KV	1.5KV
Pre-installed circuit breaker	16A	16A
Pre-installed fuse	16A	16A
Response time	$\leq 25\text{ns}$	$\leq 25\text{ns}$
Leakage current	$< 0.3\text{mA}$	$< 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85	-40~+85

Remote indication contact		
Max. operating voltage U_{max} AC/DC	250V/125V	250V/125V
Max. operating current I_{max} AC	1A	1A
Max. operating current I_{max} DC	0.2A	0.2A

Connection data		
Phase	6mm ²	6mm ²
Ground	10mm ²	10mm ²
Remote indication contact	0.5-1.5mm ²	0.5-1.5mm ²

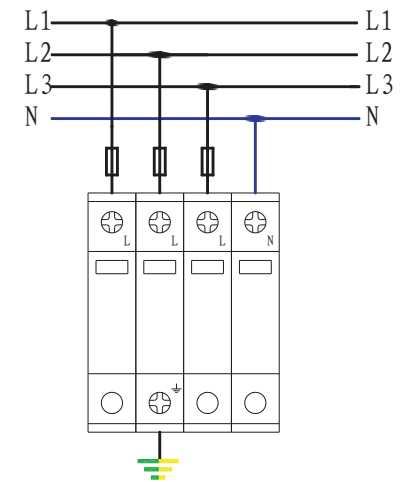
Mounting		
TH35 rails	TH35-7.5 102001 TH35-15 102005	TH35-7.5 102001 TH35-15 102005

General data		
Housing material	PA	PA
Protection degree	IP20	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998	GB/T18802.1-2011 IEC 61643-1:1998

Wiring diagram		
4P wiring diagram	Drawing 3	Drawing 3
3+1P wiring diagram	Drawing 4	Drawing 4

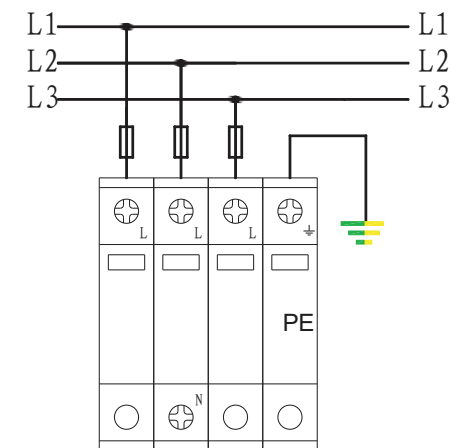
Application		
	See drawing 1/2 on page B6	See drawing 1/2 on page B6

SPD for power supply system
UB01-D/□-385-25



Drawing 3

4P wiring diagram



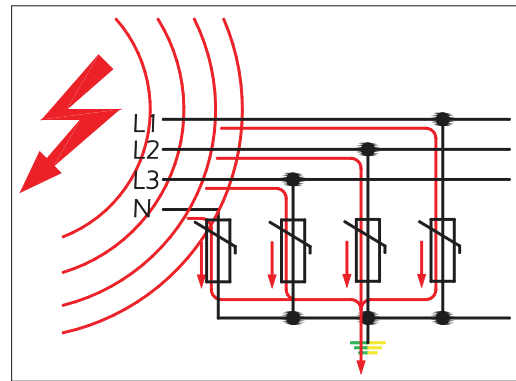
Drawing 4

3+1P wiring diagram

UB01-C series SPD (for 220/380 VAC, 50/60Hz) can be used to provide a type-2(level C) lightning or overvoltage protection to low-voltage distribution system, such as floor distribution cabinets, unit distribution cabinets.

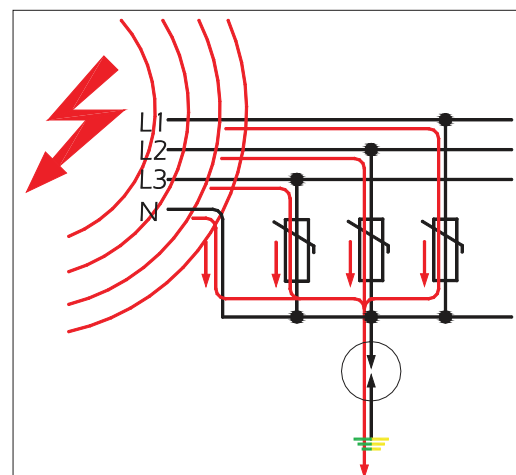
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{ns}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;
7. Plug-in.



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB01-C/□-275-40



Ordering data	Type	Order no.
<input type="checkbox"/> SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P X :With remote indication contact	UB01-C/1-275-40X	380504
	UB01-C/1-275-40	380505
	UB01-C/1+1-275-40X	380506
	UB01-C/1+1-275-40	380507
	UB01-C/2-275-40X	380508
	UB01-C/2-275-40	380509
	UB01-C/2+1-275-40X	380510
	UB01-C/2+1-275-40	380511
	UB01-C/3-275-40X	380512
	UB01-C/3-275-40	380513
	UB01-C/4-275-40X	380514
	UB01-C/4-275-40	380515
	UB01-C/3+1-275-40X	380516
	UB01-C/3+1-275-40	380517

Dimension	
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	
Max. continuous operating voltage U_c AC/DC	275V/350V
Breakdown voltage U_{1mA}	430V
Nominal discharge current I_n 8/20 μ S	20KA
Max discharge current I_{max} 8/20 μ S	40KA
Voltage protection level U_p	1.5KV
Pre-installed circuit breaker	32A
Pre-installed fuse	32A
Response time	$\leq 25\text{ns}$
Leakage current	$< 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	
Phase	10mm ²
Ground	16mm ²
Remote indication contact	0.5-1.5mm ²

Mounting					
TH35 rails	<table border="1"> <tr> <td>TH35-7.5</td> <td>102001</td> </tr> <tr> <td>TH35-15</td> <td>102005</td> </tr> </table>	TH35-7.5	102001	TH35-15	102005
TH35-7.5	102001				
TH35-15	102005				

General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Wiring diagram	
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	
	See drawing 1/2 on page B6

SPD for power supply system
UB01-C/□-320-40



SPD for power supply system
UB01-C/□-385-40



SPD for power supply system
UB01-C/□-420-40



Type	Order no.	Type	Order no.	Type	Order no.
UB01-C/1-320-40X	380518	UB01-C/1-385-40X	380532	UB01-C/1-420-40X	380546
UB01-C/1-320-40	380519	UB01-C/1-385-40	380533	UB01-C/1-420-40	380547
UB01-C/1+1-320-40X	380520	UB01-C/1+1-385-40X	380534	UB01-C/1+1-420-40X	380548
UB01-C/1+1-320-40	380521	UB01-C/1+1-385-40	380535	UB01-C/1+1-420-40	380549
UB01-C/2-320-40X	380522	UB01-C/2-385-40X	380536	UB01-C/2-420-40X	380550
UB01-C/2-320-40	380523	UB01-C/2-385-40	380537	UB01-C/2-420-40	380551
UB01-C/2+1-320-40X	380524	UB01-C/2+1-385-40X	380538	UB01-C/2+1-420-40X	380552
UB01-C/2+1-320-40	380525	UB01-C/2+1-385-40	380539	UB01-C/2+1-420-40	380553
UB01-C/3-320-40X	380526	UB01-C/3-385-40X	380540	UB01-C/3-420-40X	380554
UB01-C/3-320-40	380527	UB01-C/3-385-40	380541	UB01-C/3-420-40	380555
UB01-C/4-320-40X	380528	UB01-C/4-385-40X	380542	UB01-C/4-420-40X	380556
UB01-C/4-320-40	380529	UB01-C/4-385-40	380543	UB01-C/4-420-40	380557
UB01-C/3+1-320-40X	380530	UB01-C/3+1-385-40X	380544	UB01-C/3+1-420-40X	380558
UB01-C/3+1-320-40	380531	UB01-C/3+1-385-40	380545	UB01-C/3+1-420-40	380559

Dimension	
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	
Max. continuous operating voltage U_c AC/DC	320V/415V
Breakdown voltage U_{1mA}	510V
Nominal discharge current I_n 8/20 μ S	20KA
Max discharge current I_{max} 8/20 μ S	40KA
Voltage protection level U_p	1.5KV
Pre-installed circuit breaker	32A
Pre-installed fuse	32A
Response time	$\leq 25\text{ns}$
Leakage current	$< 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

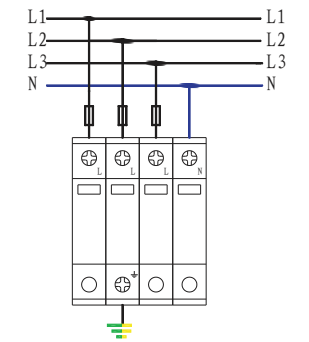
Connection data	
Phase	10mm ²
Ground	16mm ²
Remote indication contact	0.5-1.5mm ²

Mounting					
TH35 rails	<table border="1"> <tr> <td>TH35-7.5</td> <td>102001</td> </tr> <tr> <td>TH35-15</td> <td>102005</td> </tr> </table>	TH35-7.5	102001	TH35-15	102005
TH35-7.5	102001				
TH35-15	102005				

General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

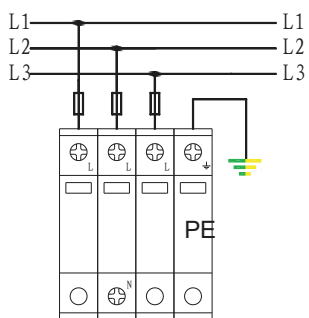
Wiring diagram	
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	
	See drawing 1/2 on page B6



Drawing 3

4P wiring diagram



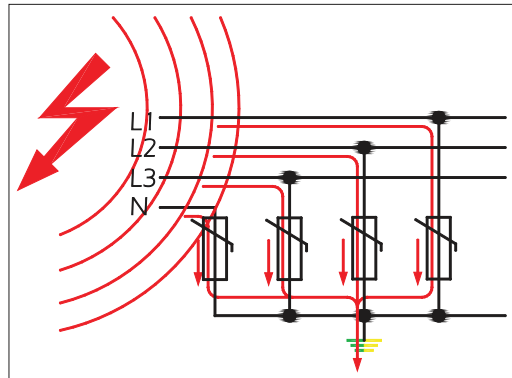
Drawing 4

3+1P wiring diagram

UB01-C series SPD (for 220/380 VAC, 50/60Hz) can be used to provide a type-2(level C) lightning or overvoltage protection to low-voltage distribution system, such as floor distribution cabinets, unit distribution cabinets.

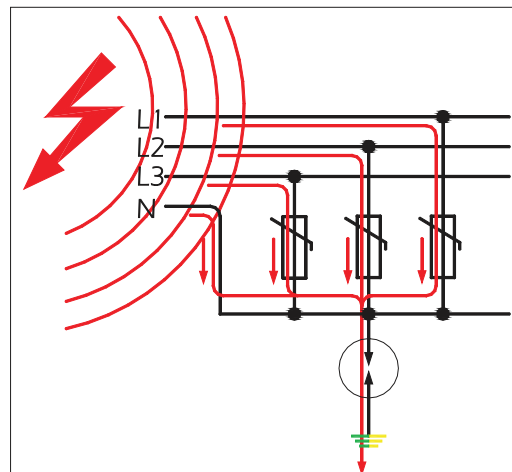
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{ns}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;
7. Plug-in.



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB01-C/□-550-40



Ordering data	Type	Order no.
□ SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P X :With remote indication contact	UB01-C/1-550-40X	380560
	UB01-C/1-550-40	380561
	UB01-C/1+1-550-40X	380562
	UB01-C/1+1-550-40	380563
	UB01-C/2-550-40X	380564
	UB01-C/2-550-40	380565
	UB01-C/2+1-550-40X	380566
	UB01-C/2+1-550-40	380567
	UB01-C/3-550-40X	380568
	UB01-C/3-550-40	380569
	UB01-C/4-550-40X	380570
	UB01-C/4-550-40	380571
	UB01-C/3+1-550-40X	380572
	UB01-C/3+1-550-40	380573

Dimension	
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	
Max. continuous operating voltage U_c AC/DC	550V/745V
Breakdown voltage U_{1mA}	910V
Nominal discharge current I_n 8/20 μ s	20KA
Max discharge current I_{max} 8/20 μ s	40KA
Voltage protection level U_p	2.6KV
Pre-installed circuit breaker	32A
Pre-installed fuse	32A
Response time	$\leq 25\text{ns}$
Leakage current	$< 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	$-40 \sim +85$

Remote indication contact	
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	
Phase	10mm ²
Ground	16mm ²
Remote indication contact	0.5-1.5mm ²

Mounting	
TH35 rails	TH35-7.5 102001 TH35-15 102005

General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Wiring diagram	
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	
	See drawing 1/2 on page B6

SPD for power supply system
UB01-C/□-600-40



SPD for power supply system
UB01-C/□-680-40



SPD for power supply system
UB01-C/□-750-40



Type	Order no.	Type	Order no.	Type	Order no.
UB01-C/1-600-40X	380574	UB01-C/1-680-40X	380588	UB01-C/1-750-40X	380602
UB01-C/1-600-40	380575	UB01-C/1-680-40	380589	UB01-C/1-750-40	380603
UB01-C/1+1-600-40X	380576	UB01-C/1+1-680-40X	380590	UB01-C/1+1-750-40X	380604
UB01-C/1+1-600-40	380577	UB01-C/1+1-680-40	380591	UB01-C/1+1-750-40	380605
UB01-C/2-600-40X	380578	UB01-C/2-680-40X	380592	UB01-C/2-750-40X	380606
UB01-C/2-600-40	380579	UB01-C/2-680-40	380593	UB01-C/2-750-40	380607
UB01-C/2+1-600-40X	380580	UB01-C/2+1-680-40X	380594	UB01-C/2+1-750-40X	380608
UB01-C/2+1-600-40	380581	UB01-C/2+1-680-40	380595	UB01-C/2+1-750-40	380609
UB01-C/3-600-40X	380582	UB01-C/3-680-40X	380596	UB01-C/3-750-40X	380610
UB01-C/3-600-40	380583	UB01-C/3-680-40	380597	UB01-C/3-750-40	380611
UB01-C/4-600-40X	380584	UB01-C/4-680-40X	380598	UB01-C/4-750-40X	380612
UB01-C/4-600-40	380585	UB01-C/4-680-40	380599	UB01-C/4-750-40	380613
UB01-C/3+1-600-40X	380586	UB01-C/3+1-680-40X	380600	UB01-C/3+1-750-40X	380614
UB01-C/3+1-600-40	380587	UB01-C/3+1-680-40	380601	UB01-C/3+1-750-40	380615

Dimension	
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	
Max. continuous operating voltage U_c AC/DC	575V/760V
Breakdown voltage U_{1mA}	950V
Nominal discharge current I_n 8/20 μ s	20KA
Max discharge current I_{max} 8/20 μ s	40KA
Voltage protection level U_p	2.8KV
Pre-installed circuit breaker	32A
Pre-installed fuse	32A
Response time	$\leq 25\text{ns}$
Leakage current	$< 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	$-40 \sim +85$

Remote indication contact	
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

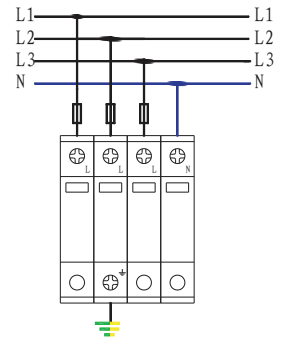
Connection data	
Phase	10mm ²
Ground	16mm ²
Remote indication contact	0.5-1.5mm ²

Mounting	
TH35 rails	TH35-7.5 102001 TH35-15 102005

General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

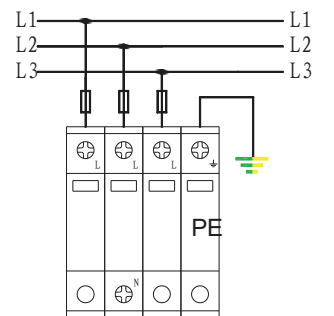
Wiring diagram	
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	
	See drawing 1/2 on page B6



Drawing 3

4P wiring diagram



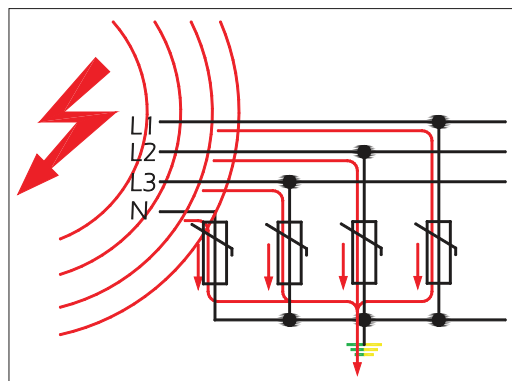
Drawing 4

3+1P wiring diagram

UB01-B series SPD (for 380/420 VAC, 50/60Hz) can be used to provide a type-1 lightning or overvoltage protection to low-voltage distribution system, such as low-voltage main distribution cabinets, outdoor distribution control cabinets and power supplies with high lightning risk.

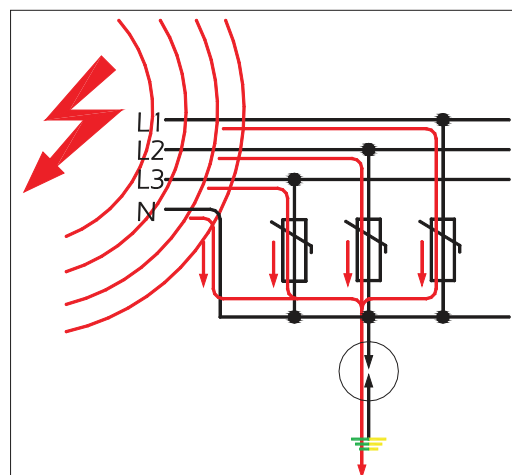
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{nS}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB01-B/□-275-60



Ordering data	Type	Order no.
<input type="checkbox"/> SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P <input checked="" type="checkbox"/> X :With remote indication contact	UB01-B/1-275-60X	380616
	UB01-B/1-275-60	380617
	UB01-B/1+1-275-60X	380618
	UB01-B/1+1-275-60	380619
	UB01-B/2-275-60X	380620
	UB01-B/2-275-60	380621
	UB01-B/2+1-275-60X	380622
	UB01-B/2+1-275-60	380623
	UB01-B/3-275-60X	380624
	UB01-B/3-275-60	380625
	UB01-B/4-275-60X	380626
	UB01-B/4-275-60	380627
	UB01-B/3+1-275-60X	380628
	UB01-B/3+1-275-60	380629

Dimension	
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	
Max. continuous operating voltage U_c AC/DC	275V/350V
Breakdown voltage U_{1mA}	430V
Nominal discharge current I_n 8/20 μ S	30KA
Max discharge current I_{max} 8/20 μ S	60KA
Voltage protection level U_p	1.5KV
Pre-installed circuit breaker	63A
Pre-installed fuse	63A
Response time	$\leq 25\text{ns}$
Leakage current	$< 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	
Phase	16mm ²
Ground	25mm ²
Remote indication contact	0.5-1.5mm ²

Mounting					
TH35 rails	<table border="1"> <tr> <td>TH35-7.5</td> <td>102001</td> </tr> <tr> <td>TH35-15</td> <td>102005</td> </tr> </table>	TH35-7.5	102001	TH35-15	102005
TH35-7.5	102001				
TH35-15	102005				

General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Wiring diagram	
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	
	See drawing 1/2 on page B6

SPD for power supply system
UB01-B/□-320-60



SPD for power supply system
UB01-B/□-385-60



SPD for power supply system
UB01-B/□-420-60



Type	Order no.	Type	Order no.	Type	Order no.
UB01-B/1-320-60X	380630	UB01-B/1-385-60X	380644	UB01-B/1-420-60X	380658
UB01-B/1-320-60	380631	UB01-B/1-385-60	380645	UB01-B/1-420-60	380659
UB01-B/1+1-320-60X	380632	UB01-B/1+1-385-60X	380646	UB01-B/1+1-420-60X	380660
UB01-B/1+1-320-60	380633	UB01-B/1+1-385-60	380647	UB01-B/1+1-420-60	380661
UB01-B/2-320-60X	380634	UB01-B/2-385-60X	380648	UB01-B/2-420-60X	380662
UB01-B/2-320-60	380635	UB01-B/2-385-60	380649	UB01-B/2-420-60	380663
UB01-B/2+1-320-60X	380636	UB01-B/2+1-385-60X	380650	UB01-B/2+1-420-60X	380664
UB01-B/2+1-320-60	380637	UB01-B/2+1-385-60	380651	UB01-B/2+1-420-60	380665
UB01-B/3-320-60X	380638	UB01-B/3-385-60X	380652	UB01-B/3-420-60X	380666
UB01-B/3-320-60	380639	UB01-B/3-385-60	380653	UB01-B/3-420-60	380667
UB01-B/4-320-60X	380640	UB01-B/4-385-60X	380654	UB01-B/4-420-60X	380668
UB01-B/4-320-60	380641	UB01-B/4-385-60	380655	UB01-B/4-420-60	380669
UB01-B/3+1-320-60X	380642	UB01-B/3+1-385-60X	380656	UB01-B/3+1-420-60X	380670
UB01-B/3+1-320-60	380643	UB01-B/3+1-385-60	380657	UB01-B/3+1-420-60	380671

Dimension	
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	
Max. continuous operating voltage U_c AC/DC	320V/415V
Breakdown voltage U_{1mA}	510V
Nominal discharge current I_n 8/20 μ S	30KA
Max discharge current I_{max} 8/20 μ S	60KA
Voltage protection level U_p	1.8KV
Pre-installed circuit breaker	63A
Pre-installed fuse	63A
Response time	$\leq 25\text{ns}$
Leakage current	$< 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

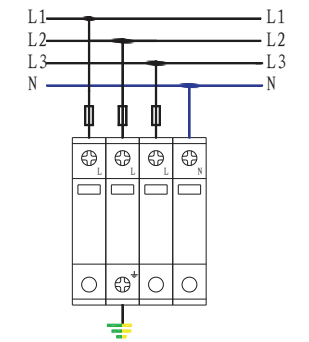
Connection data	
Phase	16mm ²
Ground	25mm ²
Remote indication contact	0.5-1.5mm ²

Mounting					
TH35 rails	<table border="1"> <tr> <td>TH35-7.5</td> <td>102001</td> </tr> <tr> <td>TH35-15</td> <td>102005</td> </tr> </table>	TH35-7.5	102001	TH35-15	102005
TH35-7.5	102001				
TH35-15	102005				

General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

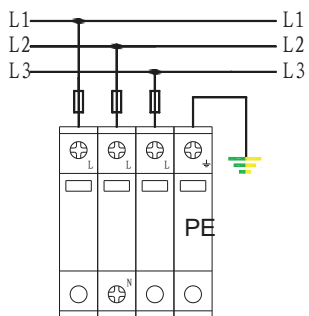
Wiring diagram	
4P wiring diagram	Drawing 3
3+1P wiring diagram	Drawing 4

Application	
	See drawing 1/2 on page B6



Drawing 3

4P wiring diagram



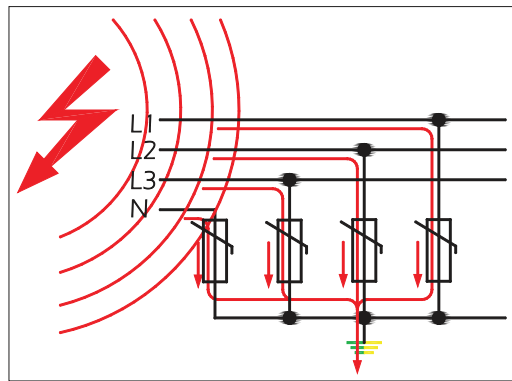
Drawing 4

3+1P wiring diagram

UB04-60 series SPD (for 380/420 VAC, 50/60Hz) can be used to provide a type-1 lightning or overvoltage protection to low-voltage distribution system, such as low-voltage main distribution cabinets, outdoor distribution control cabinets and power supplies with high lightning risk.

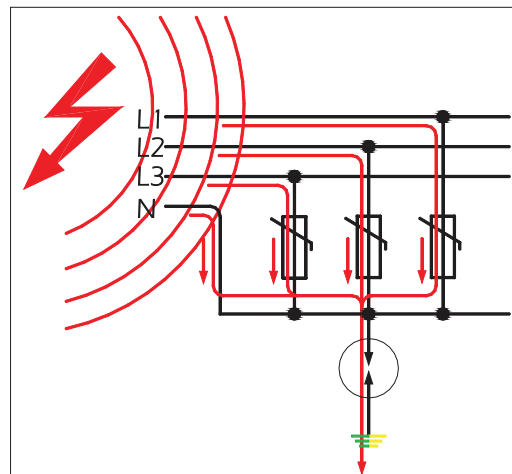
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{nS}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB04-60/□-275



Ordering data	Type	Order no.
□ SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P	UB04-60/1-275X	380714
	UB04-60/1-275	380715
	UB04-60/2-275X	380716
	UB04-60/2-275	380717
	UB04-60/3-275X	380718
	UB04-60/3-275	380719
	UB04-60/4-275X	380720
	UB04-60/4-275	380721
	UB04-60/3+1-275X	380722
	UB04-60/3+1-275	380723
X :With remote indication contact		
Dimension	90/36/66mm	
Technical data	275V/350V	
Max. continuous operating voltage U_c AC/DC	275V/350V	
Breakdown voltage U_{1mA}	430V	
Nominal discharge current I_n 8/20 μ S	30KA	
Max discharge current I_{max} 8/20 μ S	60KA	
Voltage protection level U_p	1.5KV	
Pre-installed circuit breaker	63A	
Pre-installed fuse	63A	
Response time	$\leq 25\text{ns}$	
Leakage current	$\leq 0.3\text{mA}$	
Temperature range $^{\circ}\text{C}$	$-40 \sim +85$	
Remote indication contact	250V/125V	
Max. operating voltage U_{max} AC/DC	250V/125V	
Max. operating current I_{max} AC	1A	
Max. operating current I_{max} DC	0.2A	
Connection data	16mm ²	
Phase	16mm ²	
Ground	25mm ²	
Remote indication contact	0.5-1.5mm ²	
Mounting	TH35-7.5 102001	
TH35 rails	TH35-15 102005	
General data	PA	
Housing material	PA	
Protection degree	IP20	
Test standards	GB/T18802.1-2011 IEC 61643-1:1998	
Accessories		
Wiring diagram	Drawing 3,4	
4P wiring diagram	Drawing 3,4	
3+1P wiring diagram	Drawing 5,6	
Application	See drawing 1/2 on page B6	

SPD for power supply system
UB04-60/□-320



Type	Order no.	Type	Order no.	Type	Order no.
UB04-60/1-320X	380724	UB04-60/1-385X	380734	UB04-60/1-420X	380744
UB04-60/1-320	380725	UB04-60/1-385	380735	UB04-60/1-420	380745
UB04-60/2-320X	380726	UB04-60/2-385X	380736	UB04-60/2-420X	380746
UB04-60/2-320	380727	UB04-60/2-385	380737	UB04-60/2-420	380747
UB04-60/3-320X	380728	UB04-60/3-385X	380738	UB04-60/3-420X	380748
UB04-60/3-320	380729	UB04-60/3-385	380739	UB04-60/3-420	380749
UB04-60/4-320X	380730	UB04-60/4-385X	380740	UB04-60/4-420X	380750
UB04-60/4-320	380731	UB04-60/4-385	380741	UB04-60/4-420	380751
UB04-60/3+1-320X	380732	UB04-60/3+1-385X	380742	UB04-60/3+1-420X	380752
UB04-60/3+1-320	380733	UB04-60/3+1-385	380743	UB04-60/3+1-420	380753
90/36/66mm					
320V/415V					
510V					
30KA					
60KA					
1.8KV					
63A					
63A					
$\leq 25\text{ns}$					
$\leq 0.3\text{mA}$					
$-40 \sim +85$					
250V/125V					
1A					
0.2A					
16mm ²					
25mm ²					
0.5-1.5mm ²					
TH35-7.5 102001					
TH35-15 102005					
PA					
IP20					
GB/T18802.1-2011 IEC 61643-1:1998					
Drawing 3,4					
Drawing 5,6					
See drawing 1/2 on page B6					

SPD for power supply system
UB04-60/□-385

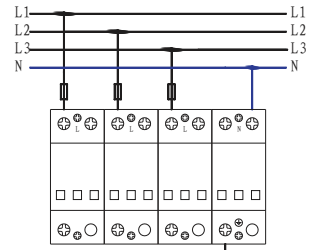


Type	Order no.	Type	Order no.	Type	Order no.
UB04-60/1-385X	380734	UB04-60/1-420X	380744		
UB04-60/1-385	380735	UB04-60/1-420	380745		
UB04-60/2-385X	380736	UB04-60/2-420X	380746		
UB04-60/2-385	380737	UB04-60/2-420	380747		
UB04-60/3-385X	380738	UB04-60/3-420X	380748		
UB04-60/3-385	380739	UB04-60/3-420	380749		
UB04-60/4-385X	380740	UB04-60/4-420X	380750		
UB04-60/4-385	380741	UB04-60/4-420	380751		
UB04-60/3+1-385X	380742	UB04-60/3+1-420X	380752		
UB04-60/3+1-385	380743	UB04-60/3+1-420	380753		
90/36/66mm					
385V/505V					
620V					
30KA					
60KA					
2.0KV					
63A					
63A					
$\leq 25\text{ns}$					
$\leq 0.3\text{mA}$					
$-40 \sim +85$					
250V/125V					
1A					
0.2A					
16mm ²					
25mm ²					
0.5-1.5mm ²					
TH35-7.5 102001					
TH35-15 102005					
PA					
IP20					
GB/T18802.1-2011 IEC 61643-1:1998					
Drawing 3,4					
Drawing 5,6					
See drawing 1/2 on page B6					

SPD for power supply system
UB04-60/□-420

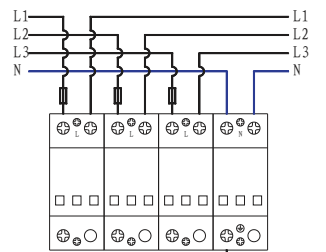


Type	Order no.	Type	Order no.	Type	Order no.
UB04-60/1-420X	380744				
UB04-60/1-420	380745				
UB04-60/2-420X	380746				
UB04-60/2-420	380747				
UB04-60/3-420X	380748				
UB04-60/3-420	380749				
UB04-60/4-420X	380750				
UB04-60/4-420	380751				
UB04-60/3+1-420X	380752				
UB04-60/3+1-420	380753				
90/36/66mm					
420V/560V					
680V					
30KA					
60KA					
2.2KV					
63A					
63A					
$\leq 25\text{ns}$					
$\leq 0.3\text{mA}$					
$-40 \sim +85$					
250V/125V					
1A					
0.2A					
16mm ²					
25mm ²					
0.5-1.5mm ²					
TH35-7.5 102001					
TH35-15 102005					
PA					
IP20					
GB/T18802.1-2011 IEC 61643-1:1998					
Drawing 3,4					
Drawing 5,6					
See drawing 1/2 on page B6					



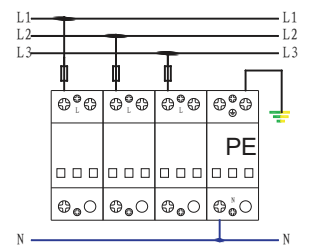
Drawing 3

4P wiring diagram



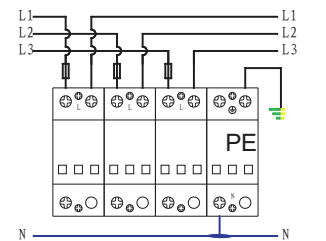
Drawing 4

4P wiring diagram



Drawing 5

3+1P wiring diagram



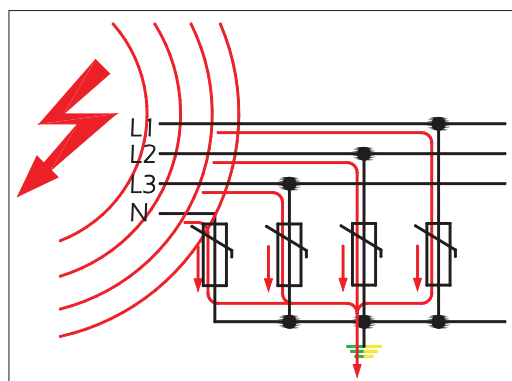
Drawing 6

3+1P wiring diagram

UB04-80 series SPD (for 380/420 VAC, 50/60Hz) can be used to provide a type-1 lightning or overvoltage protection to low-voltage distribution system, such as low-voltage main distribution cabinets, outdoor distribution control cabinets and power supplies with high lightning risk.

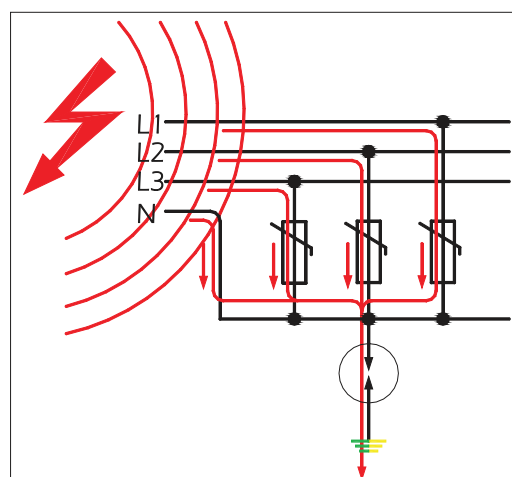
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{nS}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB04-80/□-275



Ordering data	Type	Order no.
□ SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P	UB04-80/1-275X	380754
	UB04-80/1-275	380755
	UB04-80/2-275X	380756
	UB04-80/2-275	380757
	UB04-80/3-275X	380758
	UB04-80/3-275	380759
	UB04-80/4-275X	380760
	UB04-80/4-275	380761
	UB04-80/3+1-275X	380762
	UB04-80/3+1-275	380763
X: With remote indication contact		
Dimension	90/36/66mm	
Technical data		
Max. continuous operating voltage U_c AC/DC	275V/350V	
Breakdown voltage U_{1mA}	430V	
Nominal discharge current I_n 8/20 μ S	40KA	
Max discharge current I_{max} 8/20 μ S	80KA	
Voltage protection level U_p	1.6KV	
Pre-installed circuit breaker	63A	
Pre-installed fuse	63A	
Response time	$\leq 25\text{ns}$	
Leakage current	$\leq 0.3\text{mA}$	
Temperature range $^{\circ}\text{C}$	$-40 \sim +85$	
Remote indication contact		
Max. operating voltage U_{max} AC/DC	250V/125V	
Max. operating current I_{max} AC	1A	
Max. operating current I_{max} DC	0.2A	
Connection data		
Phase	16mm ²	
Ground	25mm ²	
Remote indication contact	0.5-1.5mm ²	
Mounting		
TH35 rails	TH35-7.5 102001	TH35-15 102005
General data		
Housing material	PA	
Protection degree	IP20	
Test standards	GB/T18802.1-2011 IEC 61643-1:1998	
Accessories		
Wiring diagram		
4P wiring diagram	Drawing 3,4	
3+1P wiring diagram	Drawing 5,6	
Application	See drawing 1/2 on page B6	

SPD for power supply system
UB04-80/□-320



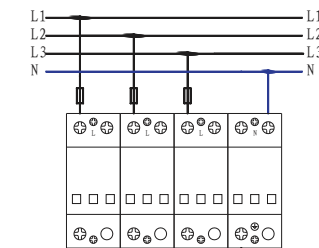
SPD for power supply system
UB04-80/□-385



SPD for power supply system
UB04-80/□-420

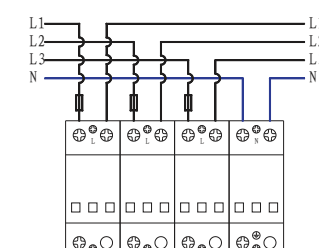


Type	Order no.	Type	Order no.	Type	Order no.	
UB04-80/1-320X	380764	UB04-80/1-385X	380774	UB04-80/1-420X	380784	
UB04-80/1-320	380765	UB04-80/1-385	380775	UB04-80/1-420	380785	
UB04-80/2-320X	380766	UB04-80/2-385X	380776	UB04-80/2-420X	380786	
UB04-80/2-320	380767	UB04-80/2-385	380777	UB04-80/2-420	380787	
UB04-80/3-320X	380768	UB04-80/3-385X	380778	UB04-80/3-420X	380788	
UB04-80/3-320	380769	UB04-80/3-385	380779	UB04-80/3-420	380789	
UB04-80/4-320X	380770	UB04-80/4-385X	380780	UB04-80/4-420X	380790	
UB04-80/4-320	380771	UB04-80/4-385	380781	UB04-80/4-420	380791	
UB04-80/3+1-320X	380772	UB04-80/3+1-385X	380782	UB04-80/3+1-420X	380792	
UB04-80/3+1-320	380773	UB04-80/3+1-385	380783	UB04-80/3+1-420	380793	
90/36/66mm		90/36/66mm		90/36/66mm		
Technical data						
Max. continuous operating voltage U_c AC/DC	320V/415V		385V/505V		420V/560V	
Breakdown voltage U_{1mA}	510V		620V		680V	
Nominal discharge current I_n 8/20 μ S	40KA		40KA		40KA	
Max discharge current I_{max} 8/20 μ S	80KA		80KA		80KA	
Voltage protection level U_p	2.0KV		2.2KV		2.5KV	
Pre-installed circuit breaker	63A		63A		63A	
Pre-installed fuse	63A		63A		63A	
Response time	$\leq 25\text{ns}$		$\leq 25\text{ns}$		$\leq 25\text{ns}$	
Leakage current	$\leq 0.3\text{mA}$		$\leq 0.3\text{mA}$		$\leq 0.3\text{mA}$	
Temperature range $^{\circ}\text{C}$	$-40 \sim +85$		$-40 \sim +85$		$-40 \sim +85$	
Remote indication contact						
Max. operating voltage U_{max} AC/DC	250V/125V		250V/125V		250V/125V	
Max. operating current I_{max} AC	1A		1A		1A	
Max. operating current I_{max} DC	0.2A		0.2A		0.2A	
Connection data						
Phase	16mm ²		16mm ²		16mm ²	
Ground	25mm ²		25mm ²		25mm ²	
Remote indication contact	0.5-1.5mm ²		0.5-1.5mm ²		0.5-1.5mm ²	
Mounting						
TH35 rails	TH35-7.5 102001	TH35-15 102005	TH35-7.5 102001	TH35-15 102005	TH35-7.5 102001	TH35-15 102005
General data						
Housing material	PA		PA		PA	
Protection degree	IP20		IP20		IP20	
Test standards	GB/T18802.1-2011 IEC 61643-1:1998		GB/T18802.1-2011 IEC 61643-1:1998		GB/T18802.1-2011 IEC 61643-1:1998	
Accessories						
Wiring diagram						
4P wiring diagram	Drawing 3,4		Drawing 3,4		Drawing 3,4	
3+1P wiring diagram	Drawing 5,6		Drawing 5,6		Drawing 5,6	
Application	See drawing 1/2 on page B6		See drawing 1/2 on page B6		See drawing 1/2 on page B6	



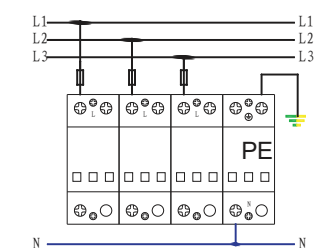
Drawing 3

4P wiring diagram



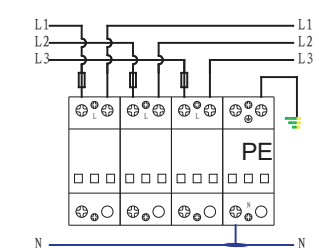
Drawing 4

4P wiring diagram



Drawing 5

3+1P wiring diagram



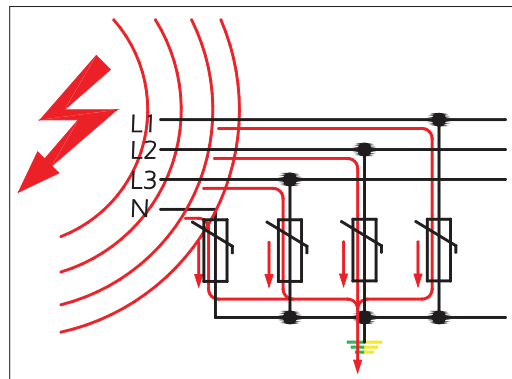
Drawing 6

3+1P wiring diagram

UB04-100 series SPD (for 380/420 VAC, 50/60Hz) can be used to provide a type-1 lightning or overvoltage protection to low-voltage distribution system, such as low-voltage main distribution cabinets, outdoor distribution control cabinets and power supplies with high lightning risk.

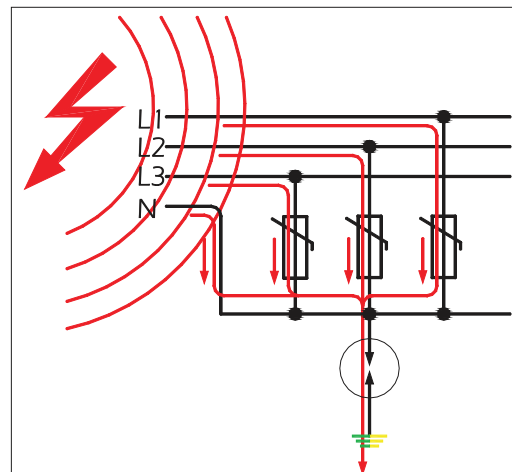
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{nS}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB04-100/□-275



Ordering data	Type	Order no.
	UB04-100/1-275X	380794
	UB04-100/1-275	380795
	UB04-100/2-275X	380796
	UB04-100/2-275	380797
	UB04-100/3-275X	380798
	UB04-100/3-275	380799
	UB04-100/4-275X	380800
	UB04-100/4-275	380801
	UB04-100/3+1-275X	380802
	UB04-100/3+1-275	380803

□ SPD combinations:
1, 2, 3, 4, 1+1, 3+1
see drawing 1 under 4P
drawing 2 for 3+1P

X : With remote indication contact

Dimension	Value
Width/Thickness(per piece)/Height	90/36/66mm

Technical data	Value
Max. continuous operating voltage U_c AC/DC	275V/350V
Breakdown voltage U_{1mA}	430V
Nominal discharge current I_n 8/20 μ S	50KA
Max discharge current I_{max} 8/20 μ S	100KA
Voltage protection level U_p	1.8KV
Pre-installed circuit breaker	63A
Pre-installed fuse	63A
Response time	$\leq 25\text{ns}$
Leakage current	$\leq 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	Value
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	Value
Phase	16mm ²
Ground	25mm ²
Remote indication contact	0.5-1.5mm ²

Mounting	Value
TH35 rails	TH35-7.5 102001 TH35-15 102005

General data	Value
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Accessories	Value

Wiring diagram	Value
4P wiring diagram	Drawing 3,4
3+1P wiring diagram	Drawing 5,6

Application	Value
	See drawing 1/2 on page B6

SPD for power supply system
UB04-100/□-320



SPD for power supply system
UB04-100/□-385



SPD for power supply system
UB04-100/□-420



Type	Order no.	Type	Order no.	Type	Order no.
UB04-100/1-320X	380804	UB04-100/1-385X	380814	UB04-100/1-420X	380824
UB04-100/1-320	380805	UB04-100/1-385	380815	UB04-100/1-420	380825
UB04-100/2-320X	380806	UB04-100/2-385X	380816	UB04-100/2-420X	380826
UB04-100/2-320	380807	UB04-100/2-385	380817	UB04-100/2-420	380827
UB04-100/3-320X	380808	UB04-100/3-385X	380818	UB04-100/3-420X	380828
UB04-100/3-320	380809	UB04-100/3-385	380819	UB04-100/3-420	380829
UB04-100/4-320X	380810	UB04-100/4-385X	380820	UB04-100/4-420X	380830
UB04-100/4-320	380811	UB04-100/4-385	380821	UB04-100/4-420	380831
UB04-100/3+1-320X	380812	UB04-100/3+1-385X	380822	UB04-100/3+1-420X	380832
UB04-100/3+1-320	380813	UB04-100/3+1-385	380823	UB04-100/3+1-420	380833

Dimension	Value
Width/Thickness(per piece)/Height	90/36/66mm

Technical data	Value
Max. continuous operating voltage U_c AC/DC	320V/415V
Breakdown voltage U_{1mA}	510V
Nominal discharge current I_n 8/20 μ S	50KA
Max discharge current I_{max} 8/20 μ S	100KA
Voltage protection level U_p	2.2KV
Pre-installed circuit breaker	63A
Pre-installed fuse	63A
Response time	$\leq 25\text{ns}$
Leakage current	$\leq 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	Value
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	Value
Phase	16mm ²
Ground	25mm ²
Remote indication contact	0.5-1.5mm ²

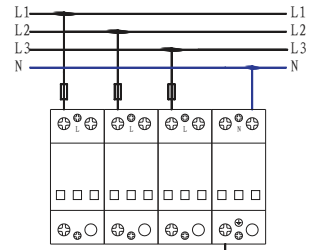
Mounting	Value
TH35 rails	TH35-7.5 102001 TH35-15 102005

General data	Value
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Accessories	Value

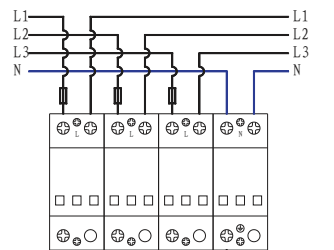
Wiring diagram	Value
4P wiring diagram	Drawing 3,4
3+1P wiring diagram	Drawing 5,6

Application	Value
	See drawing 1/2 on page B6



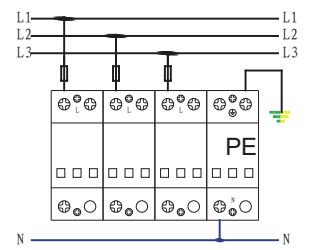
Drawing 3

4P wiring diagram



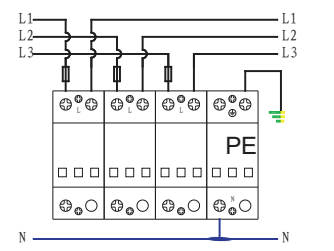
Drawing 4

4P wiring diagram



Drawing 5

3+1P wiring diagram



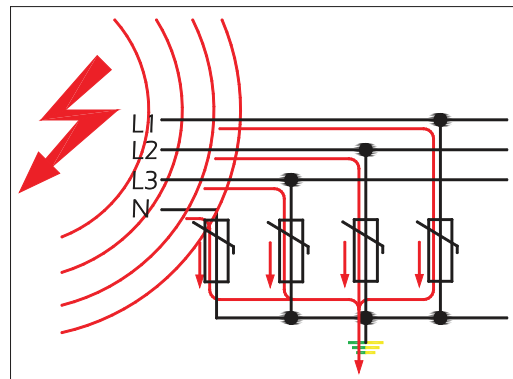
Drawing 6

3+1P wiring diagram

UB04-120 series SPD (for 380/420 VAC, 50/60Hz) can be used to provide a type-1 lightning or overvoltage protection to low-voltage distribution system, such as low-voltage main distribution cabinets, outdoor distribution control cabinets and power supplies with high lightning risk.

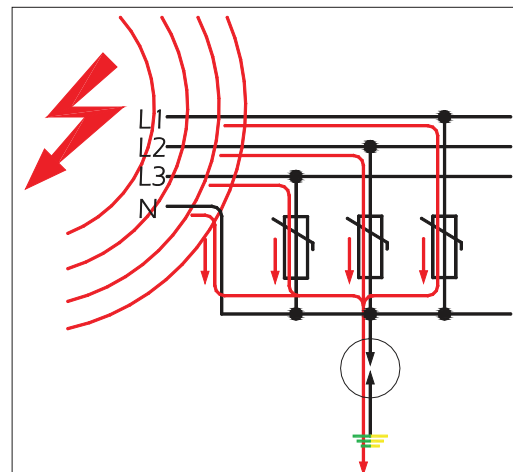
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{ns}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB04-120/□-275



Ordering data	Type	Order no.
□ SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P	UB04-120/1-275X	380834
	UB04-120/1-275	380835
	UB04-120/2-275X	380836
	UB04-120/2-275	380837
	UB04-120/3-275X	380838
	UB04-120/3-275	380839
	UB04-120/4-275X	380840
	UB04-120/4-275	380841
	UB04-120/3+1-275X	380842
	UB04-120/3+1-275	380843
X: With remote indication contact		
Dimension	90/36/66mm	
Technical data		
Max. continuous operating voltage U_c AC/DC	275V/350V	
Breakdown voltage $U_{1\text{mA}}$	430V	
Nominal discharge current I_n 8/20 μs	60KA	
Max discharge current I_{max} 8/20 μs	120KA	
Voltage protection level U_p	2.0KV	
Pre-installed circuit breaker	63A	
Pre-installed fuse	63A	
Response time	$\leq 25\text{ns}$	
Leakage current	$\leq 0.3\text{mA}$	
Temperature range $^{\circ}\text{C}$	$-40 \sim +85$	
Remote indication contact		
Max. operating voltage U_{max} AC/DC	250V/125V	
Max. operating current I_{max} AC	1A	
Max. operating current I_{max} DC	0.2A	
Connection data		
Phase	16mm ²	
Ground	25mm ²	
Remote indication contact	0.5-1.5mm ²	
Mounting		
TH35 rails	TH35-7.5	102001
	TH35-15	102005
General data		
Housing material	PA	
Protection degree	IP20	
Test standards	GB/T18802.1-2011 IEC 61643-1:1998	
Accessories		
Wiring diagram		
4P wiring diagram	Drawing 3,4	
3+1P wiring diagram	Drawing 5,6	
Application	See drawing 1/2 on page B6	

SPD for power supply system
UB04-120/□-320

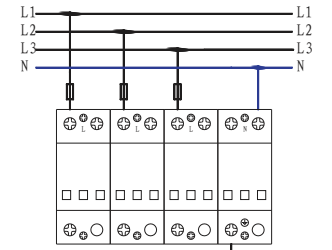


Type	Order no.	Type	Order no.	Type	Order no.
UB04-120/1-320X	380844	UB04-120/1-385X	380854	UB04-120/1-420X	380864
UB04-120/1-320	380845	UB04-120/1-385	380855	UB04-120/1-420	380865
UB04-120/2-320X	380846	UB04-120/2-385X	380856	UB04-120/2-420X	380866
UB04-120/2-320	380847	UB04-120/2-385	380857	UB04-120/2-420	380867
UB04-120/3-320X	380848	UB04-120/3-385X	380858	UB04-120/3-420X	380868
UB04-120/3-320	380849	UB04-120/3-385	380859	UB04-120/3-420	380869
UB04-120/4-320X	380850	UB04-120/4-385X	380860	UB04-120/4-420X	380870
UB04-120/4-320	380851	UB04-120/4-385	380861	UB04-120/4-420	380871
UB04-120/3+1-320X	380852	UB04-120/3+1-385X	380862	UB04-120/3+1-420X	380872
UB04-120/3+1-320	380853	UB04-120/3+1-385	380863	UB04-120/3+1-420	380873
	90/36/66mm		90/36/66mm		90/36/66mm
	320V/415V		385V/505V		420V/560V
	510V		620V		680V
	60KA		60KA		60KA
	120KA		120KA		120KA
	2.5KV		2.8KV		3.0KV
	63A		63A		63A
	63A		63A		63A
	$\leq 25\text{ns}$		$\leq 25\text{ns}$		$\leq 25\text{ns}$
	$\leq 0.3\text{mA}$		$\leq 0.3\text{mA}$		$\leq 0.3\text{mA}$
	$-40 \sim +85$		$-40 \sim +85$		$-40 \sim +85$
	250V/125V		250V/125V		250V/125V
	1A		1A		1A
	0.2A		0.2A		0.2A
	16mm ²		16mm ²		16mm ²
	25mm ²		25mm ²		25mm ²
	0.5-1.5mm ²		0.5-1.5mm ²		0.5-1.5mm ²
	TH35-7.5	102001	TH35-7.5	102001	TH35-7.5
	TH35-15	102005	TH35-15	102005	TH35-15
	PA		PA		PA
	IP20		IP20		IP20
	GB/T18802.1-2011 IEC 61643-1:1998		GB/T18802.1-2011 IEC 61643-1:1998		GB/T18802.1-2011 IEC 61643-1:1998
	Drawing 3,4		Drawing 3,4		Drawing 3,4
	Drawing 5,6		Drawing 5,6		Drawing 5,6
	See drawing 1/2 on page B6		See drawing 1/2 on page B6		See drawing 1/2 on page B6

SPD for power supply system
UB04-120/□-385

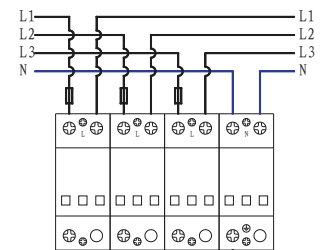


SPD for power supply system
UB04-120/□-420



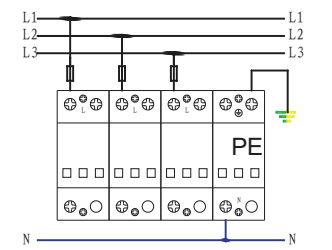
Drawing 3

4P wiring diagram



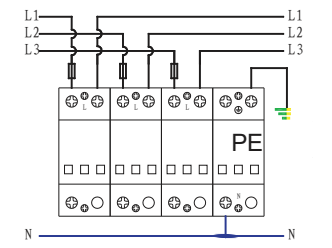
Drawing 4

4P wiring diagram



Drawing 5

3+1P wiring diagram



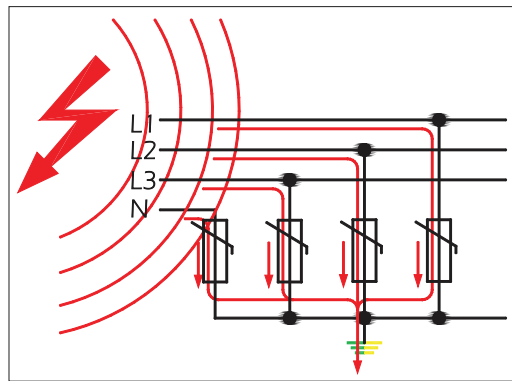
Drawing 6

3+1P wiring diagram

UB04-150 series SPD (for 380/420 VAC, 50/60Hz) can be used to provide a type-1 lightning or overvoltage protection to low-voltage distribution system, such as low-voltage main distribution cabinets, outdoor distribution control cabinets and power supplies with high lightning risk.

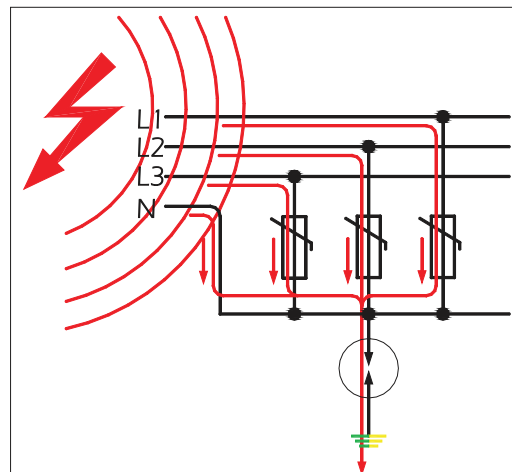
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{nS}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;



Drawing 1

4P electrical schematic



Drawing 2

3+1P electrical schematic

SPD for power supply system
UB04-150/□-275



Ordering data	Type	Order no.
□ SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P	UB04-150/1-275X	380874
	UB04-150/1-275	380875
	UB04-150/2-275X	380876
	UB04-150/2-275	380877
	UB04-150/3-275X	380878
	UB04-150/3-275	380879
	UB04-150/4-275X	380880
	UB04-150/4-275	380881
	UB04-150/3+1-275X	380882
	UB04-150/3+1-275	380883
X :With remote indication contact		
Dimension	90/36/66mm	
Technical data		
Max. continuous operating voltage U_c AC/DC	275V/350V	
Breakdown voltage U_{1mA}	430V	
Nominal discharge current I_n 8/20 μ S	60KA	
Max discharge current I_{max} 8/20 μ S	150KA	
Voltage protection level U_p	2.0KV	
Pre-installed circuit breaker	63A	
Pre-installed fuse	63A	
Response time	$\leq 25\text{ns}$	
Leakage current	$\leq 0.3\text{mA}$	
Temperature range $^{\circ}\text{C}$	$-40 \sim +85$	
Remote indication contact		
Max. operating voltage U_{max} AC/DC	250V/125V	
Max. operating current I_{max} AC	1A	
Max. operating current I_{max} DC	0.2A	
Connection data		
Phase	16mm ²	
Ground	25mm ²	
Remote indication contact	0.5-1.5mm ²	
Mounting		
TH35 rails	TH35-7.5	102001
	TH35-15	102005
General data		
Housing material	PA	
Protection degree	IP20	
Test standards	GB/T18802.1-2011 IEC 61643-1:1998	
Accessories		
Wiring diagram		
4P wiring diagram	Drawing 3,4	
3+1P wiring diagram	Drawing 5,6	
Application	See drawing 1/2 on page B6	

SPD for power supply system
UB04-150/□-320



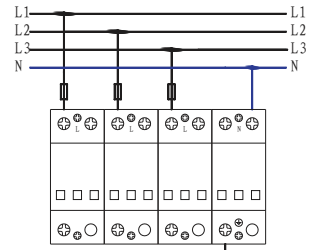
SPD for power supply system
UB04-150/□-385



SPD for power supply system
UB04-150/□-420

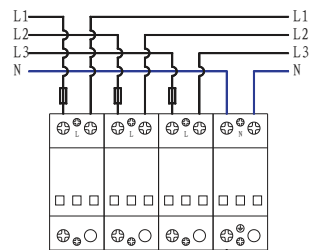


Type	Order no.	Type	Order no.	Type	Order no.
UB04-150/1-320X	380884	UB04-150/1-385X	380894	UB04-150/1-420X	380904
UB04-150/1-320	380885	UB04-150/1-385	380895	UB04-150/1-420	380905
UB04-150/2-320X	380886	UB04-150/2-385X	380896	UB04-150/2-420X	380906
UB04-150/2-320	380887	UB04-150/2-385	380897	UB04-150/2-420	380907
UB04-150/3-320X	380888	UB04-150/3-385X	380898	UB04-150/3-420X	380908
UB04-150/3-320	380889	UB04-150/3-385	380899	UB04-150/3-420	380909
UB04-150/4-320X	380890	UB04-150/4-385X	380900	UB04-150/4-420X	380910
UB04-150/4-320	380891	UB04-150/4-385	380901	UB04-150/4-420	380911
UB04-150/3+1-320X	380892	UB04-150/3+1-385X	380902	UB04-150/3+1-420X	380912
UB04-150/3+1-320	380893	UB04-150/3+1-385	380903	UB04-150/3+1-420	380913
90/36/66mm		90/36/66mm		90/36/66mm	
320V/415V		385V/505V		420V/560V	
510V		620V		680V	
60KA		60KA		60KA	
150KA		150KA		150KA	
2.5KV		2.8KV		3.0KV	
63A		63A		63A	
63A		63A		63A	
$\leq 25\text{ns}$		$\leq 25\text{ns}$		$\leq 25\text{ns}$	
$\leq 0.3\text{mA}$		$\leq 0.3\text{mA}$		$\leq 0.3\text{mA}$	
$-40 \sim +85$		$-40 \sim +85$		$-40 \sim +85$	
250V/125V		250V/125V		250V/125V	
1A		1A		1A	
0.2A		0.2A		0.2A	
16mm ²		16mm ²		16mm ²	
25mm ²		25mm ²		25mm ²	
0.5-1.5mm ²		0.5-1.5mm ²		0.5-1.5mm ²	
TH35-7.5	102001	TH35-7.5	102001	TH35-7.5	102001
TH35-15	102005	TH35-15	102005	TH35-15	102005
PA		PA		PA	
IP20		IP20		IP20	
GB/T18802.1-2011 IEC 61643-1:1998		GB/T18802.1-2011 IEC 61643-1:1998		GB/T18802.1-2011 IEC 61643-1:1998	
Drawing 3,4		Drawing 3,4		Drawing 3,4	
Drawing 5,6		Drawing 5,6		Drawing 5,6	
See drawing 1/2 on page B6		See drawing 1/2 on page B6		See drawing 1/2 on page B6	



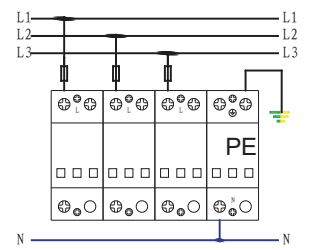
Drawing 3

4P wiring diagram



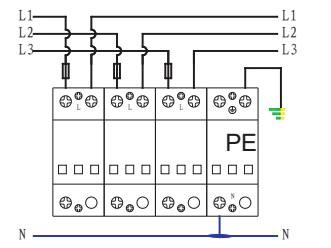
Drawing 4

4P wiring diagram



Drawing 5

3+1P wiring diagram



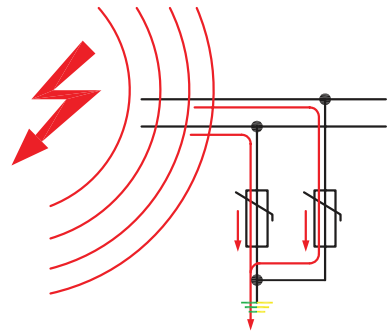
Drawing 6

3+1P wiring diagram

UB01-D series SPD is designed for DC power supply system. It can be used to provide lightning (overvoltage) protection for solar and wind energy.

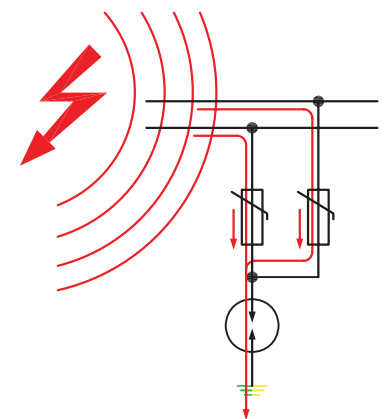
Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{nS}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;



Drawing 1

2P electrical schematic



Drawing 2

2+1P electrical schematic

SPD for DC application
UB01-C/□-60VDC-40



Ordering data	Type	Order no.
□ SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P	UB01-C/1-60VDC-40X	380672
	UB01-C/1-60VDC-40	380673
	UB01-C/1+1-60VDC-40X	380674
	UB01-C/1+1-60VDC-40	380675
	UB01-C/2-60VDC-40X	380676
	UB01-C/2-60VDC-40	380677

Dimension

Width/Thickness(per piece)/Height	90/18/66mm
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Technical data

Max. continuous operating voltage U_c DC/AC	100V/75V
Breakdown voltage U_{1mA}	120V
Nominal discharge current I_n 8/20 μ S	15KA
Max discharge current I_{max} 8/20 μ S	40KA
Voltage protection level U_p	250V
Pre-installed circuit breaker	32A
Pre-installed fuse	32A
Response time	$\leq 25\text{ns}$
Leakage current	$\leq 0.3\text{mA}$
Temperature range	-40~+85

Remote indication contact

Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max}	1A
Max. operating current I_{max}	0.2A

Connection data

Phase	16mm ²
Ground	25mm ²
Remote indication contact	0.5-1.5mm ²

Mounting

TH35 rails	TH35-7.5	102001
	TH35-15	102005

General data

Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Accessories

Wiring diagram

2P wiring diagram	Drawing 3
2+1P wiring diagram	Drawing 4

SPD for DC application
UB01-C/□-110VDC-40



SPD for DC application
UB01-C/□-120VDC-40



Type	Order no.	Type	Order no.
UB01-C/1-110VDC-40X	380678	UB01-C/1-120VDC-40X	380684
UB01-C/1-110VDC-40	380679	UB01-C/1-120VDC-40	380685
UB01-C/1+1-110VDC-40X	380680	UB01-C/1+1-120VDC-40X	380686
UB01-C/1+1-110VDC-40	380681	UB01-C/1+1-120VDC-40	380687
UB01-C/2-110VDC-40X	380682	UB01-C/2-120VDC-40X	380688
UB01-C/2-110VDC-40	380683	UB01-C/2-120VDC-40X	380689

Dimension

Width/Thickness(per piece)/Height	90/18/66mm	90/18/66mm
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Technical data

Max. continuous operating voltage U_c DC/AC	180V/140V	200V/150V
Breakdown voltage U_{1mA}	220V	240V
Nominal discharge current I_n 8/20 μ S	20KA	20KA
Max discharge current I_{max} 8/20 μ S	40KA	40KA
Voltage protection level U_p	600V	800V
Pre-installed circuit breaker	32A	32A
Pre-installed fuse	32A	32A
Response time	$\leq 25\text{ns}$	$\leq 25\text{ns}$
Leakage current	$\leq 0.3\text{mA}$	$\leq 0.3\text{mA}$
Temperature range	-40~+85	-40~+85

Remote indication contact

Max. operating voltage U_{max} AC/DC	250V/125V	250V/125V
Max. operating current I_{max}	1A	1A
Max. operating current I_{max}	0.2A	0.2A

Connection data

Phase	16mm ²	16mm ²
Ground	25mm ²	25mm ²
Remote indication contact	0.5-1.5mm ²	0.5-1.5mm ²

Mounting

TH35 rails	TH35-7.5	102001	TH35-7.5	102001
	TH35-15	102005	TH35-15	102005

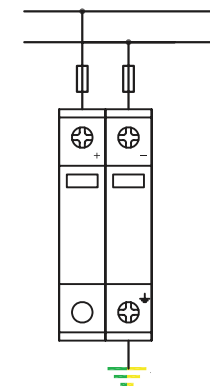
General data

Housing material	PA	PA
Protection degree	IP20	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998	GB/T18802.1-2011 IEC 61643-1:1998

Accessories

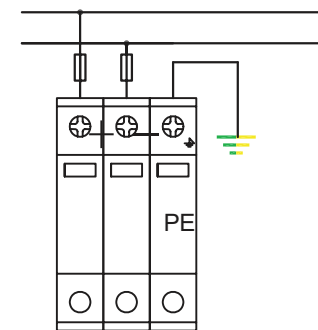
Wiring diagram

2P wiring diagram	Drawing 3	Drawing 3
2+1P wiring diagram	Drawing 4	Drawing 4



Drawing 3

2P wiring diagram



Drawing 4

2+1P wiring diagram

UB01-C series SPD is designed for DC power supply system. It can be used to provide lightning (overvoltage) protection for solar and wind energy.

Features:

1. Low residual voltage and leakage current;
2. Response time $\leq 25\text{nS}$;
3. Thermal disconnect and fuse devices;
4. Mechanical status indication: green(OK), red(Overloaded);
5. With or without floating remote indication contacts;
6. Can be mounted on TH 35 rails;

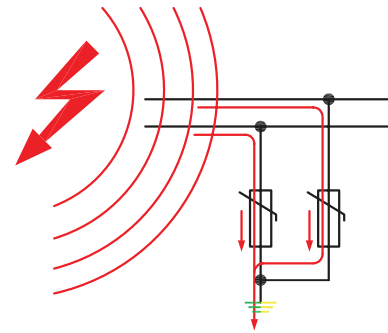
SPD for DC application
UB01-C/□-560VDC-40



SPD for DC application
UB01-C/□-910VDC-40

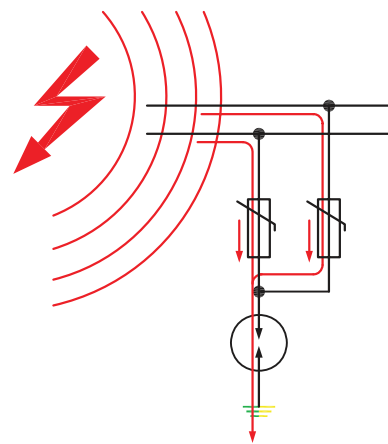


SPD for DC application
UB01-C/□-1000VDC-40



Drawing 1

2P electrical schematic



Drawing 2

2+1P electrical schematic

Ordering data	Type	Order no.
□ SPD combinations: 1, 2, 3, 4, 1+1, 3+1 see drawing 1 under 4P drawing 2 for 3+1P	UB01-C/1-560VDC-40X	380690
	UB01-C/1-560VDC-40	380691
	UB01-C/1+1-560VDC-40X	380692
	UB01-C/1+1-560VDC-40	380693
	UB01-C/2-560VDC-40X	380694
	UB01-C/2-560VDC-40	380695
	UB01-C/2+1-560VDC-40X	380696
	UB01-C/2+1-560VDC-40	380697

Dimension	
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	
Max. continuous operating voltage U_c DC/AC	560V/420V
Breakdown voltage U_{1mA}	680V
Nominal discharge current I_n 8/20 μ S	20KA
Max discharge current I_{max} 8/20 μ S	40KA
Voltage protection level U_p	2.2KV
Pre-installed circuit breaker	32A
Pre-installed fuse	32A
Response time	$\leq 25\text{ns}$
Leakage current	$\leq 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

Remote indication contact	
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	
Phase	16mm ²
Ground	25mm ²
Remote indication contact	0.5-1.5mm ²

Mounting	
TH35 rails	TH35-7.5 102001 TH35-15 102005

General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Wiring diagram	
2P wiring diagram	Drawing 3
2+1P wiring diagram	Drawing 4

Type	Order no.	Type	Order no.
UB01-C/1-910VDC-40X	380698	UB01-C/1-1000VDC-40X	380706
UB01-C/1-910VDC-40	380699	UB01-C/1-1000VDC-40	380707
UB01-C/1+1-910VDC-40X	380700	UB01-C/1+1-1000VDC-40X	380708
UB01-C/1+1-910VDC-40	380701	UB01-C/1+1-1000VDC-40	380709
UB01-C/2-910VDC-40X	380702	UB01-C/2-1000VDC-40X	380710
UB01-C/2-910VDC-40	380703	UB01-C/2-1000VDC-40	380711
UB01-C/2+1-910VDC-40X	380704	UB01-C/2+1-1000VDC-40X	380712
UB01-C/2+1-910VDC-40	380705	UB01-C/2+1-1000VDC-40	380713

Dimension	
Width/Thickness(per piece)/Height	90/18/66mm

Technical data	
Max. continuous operating voltage U_c DC/AC	895V/680V
Breakdown voltage U_{1mA}	1100V
Nominal discharge current I_n 8/20 μ S	20KA
Max discharge current I_{max} 8/20 μ S	40KA
Voltage protection level U_p	3.3KV
Pre-installed circuit breaker	32A
Pre-installed fuse	32A
Response time	$\leq 25\text{ns}$
Leakage current	$\leq 0.3\text{mA}$
Temperature range $^{\circ}\text{C}$	-40~+85

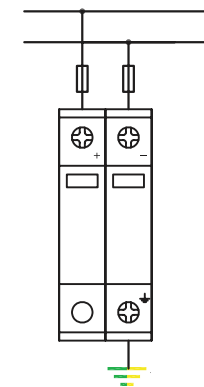
Remote indication contact	
Max. operating voltage U_{max} AC/DC	250V/125V
Max. operating current I_{max} AC	1A
Max. operating current I_{max} DC	0.2A

Connection data	
Phase	16mm ²
Ground	25mm ²
Remote indication contact	0.5-1.5mm ²

Mounting	
TH35 rails	TH35-7.5 102001 TH35-15 102005

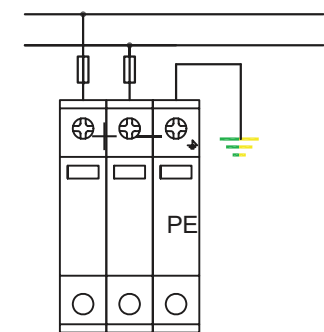
General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.1-2011 IEC 61643-1:1998

Wiring diagram	
2P wiring diagram	Drawing 3
2+1P wiring diagram	Drawing 4



Drawing 3

2P wiring diagram



Drawing 4

2+1P wiring diagram

Application

Can be used to provide protection for monitoring systems and equipments, such as "Power, PTZ, Camera", bank, residential area, factory, school, and transportation.

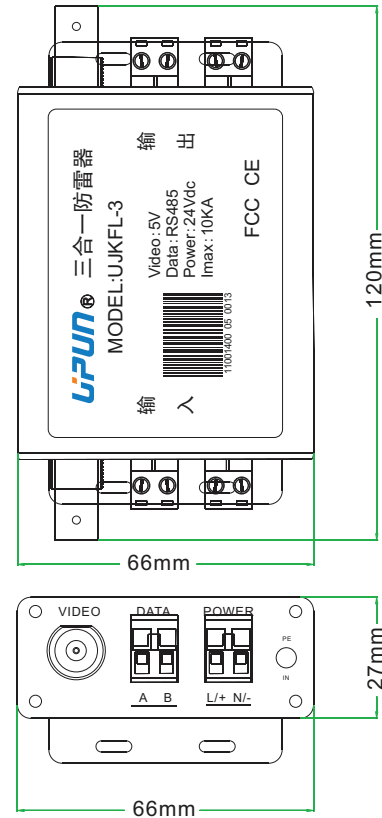
Features

1. Comprehensive protection for power supply of camera, PTZ control signal and video signal, low interference;
2. Large flow, low residual depression;
3. Multi-level protection;
4. Low insertion loss, superior transmission performance, free of leakage current.

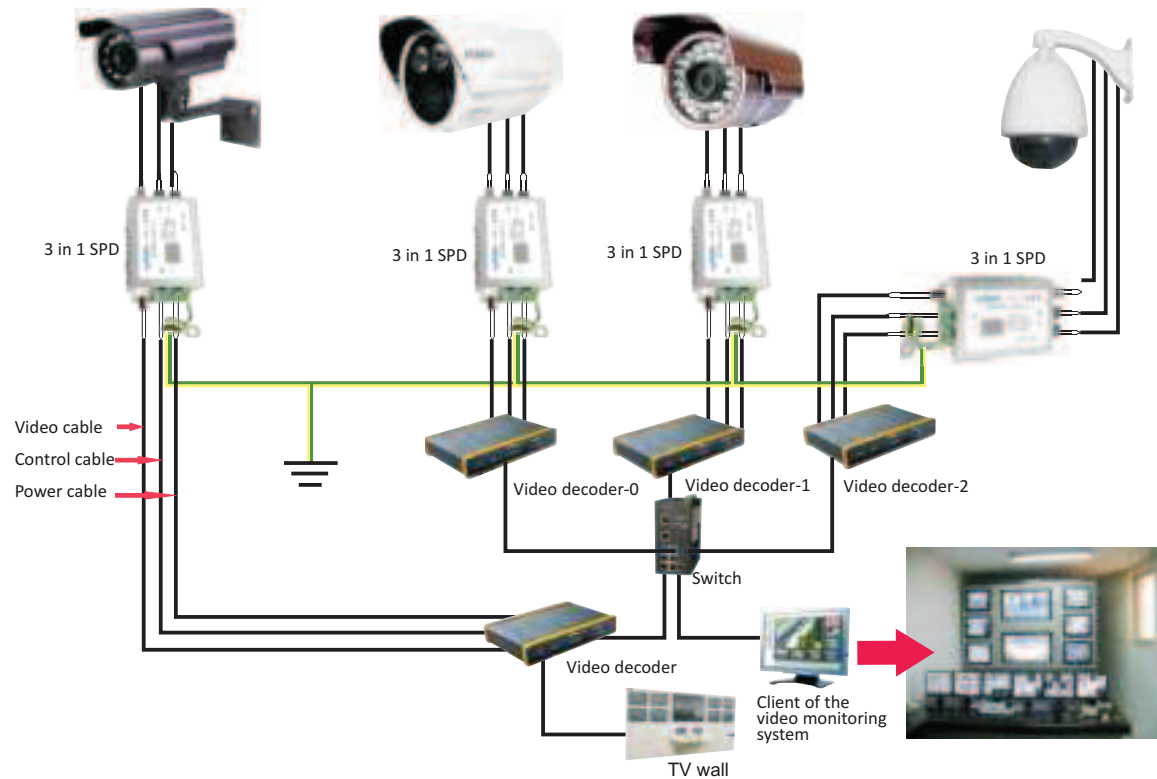
Mounting

1. Prepare for connection
2. Keep it away from rain, it may cause a short circuit.
3. Connect it in the correct direction, the end of output should be connected with the device to be protected.
4. Cut off power source before installing
5. Check the circuit after the installation is completed
6. No special maintenance is required. Just check regularly the product is well-connected and the status indication is working correctly.

Dimension drawing



Installation drawing



3 in 1 CCTV camera SPD
UJKFL-3-220Vac

3 in 1 CCTV camera SPD
UJKFL-3-24Vdc

3 in 1 CCTV camera SPD
UJKFL-3-12Vdc



Ordering data	Type	Order no.	Type	Order no.	Type	Order no.
SPD for monitoring system	UJKFL-3-220Vac	385051	UJKFL-3-24Vdc	385052	UJKFL-3-12Vdc	385053
Dimension						
Length/Width/Thickness	120*66*27mm (connector included)		120*66*27mm (connector included)		120*66*27mm (connector included)	
Technical data						
Power supply						
Operating voltage	220Vac		24Vdc		12Vdc	
Max. continuous operating voltage U _c	275Vac		45Vdc		26Vdc	
Rated operating voltage	3A		3A		3A	
Nominal discharge current I _n 8/20μs	5KA		5KA		5KA	
Max. discharge current I _{max} 8/20μs	10KA		10KA		10KA	
Voltage protection level U _p	900V				100V	
Temperature range °C	-40~+85°C		-40~+85°C		-40~+85°C	
Video and control						
Operating voltage	≤12V		≤12V		≤12V	
Nominal discharge current I _n 8/20μs	3KA		3KA		3KA	
Max. discharge current I _{max} 8/20μs	5KA		5KA		5KA	
Limiting voltage (10/700μs) Core/Housing/Ground	≤40V		≤40V		≤40V	
Transmission rate	≤100Mbps		≤100Mbps		≤100Mbps	
Impedance	75Ω		75Ω		75Ω	
Insertion loss	≤0.5dB		≤0.5dB		≤0.5dB	
Interface form-I/O	BNC-K/J,2P crimp terminal		BNC-K/J,2P crimp terminal		BNC-K/J,2P crimp terminal	
Others						
Housing	Aluminium alloy		Aluminium alloy		Aluminium alloy	
Conductor connection						
Power supply	16-26AWG (Approx. 0.15~1.3mm ²)		16-26AWG (Approx. 0.15~1.3mm ²)		16-26AWG (Approx. 0.15~1.3mm ²)	
Control signal	16-26AWG (Approx. 0.15~1.3mm ²)		16-26AWG (Approx. 0.15~1.3mm ²)		16-26AWG (Approx. 0.15~1.3mm ²)	
Video signal	BNC		BNC		BNC	
Grounding	Ground terminal block or earth wire of 2.5mm ²		Ground terminal block or earth wire of 2.5mm ²		Ground terminal block or earth wire of 2.5mm ²	
Mounting	Box or cabinet		Box or cabinet		Box or cabinet	

Application

Can be used to provide protection for monitoring systems and equipments, such as "Power, PTZ, Camera", bank, residential area, factory, school, and transportation.

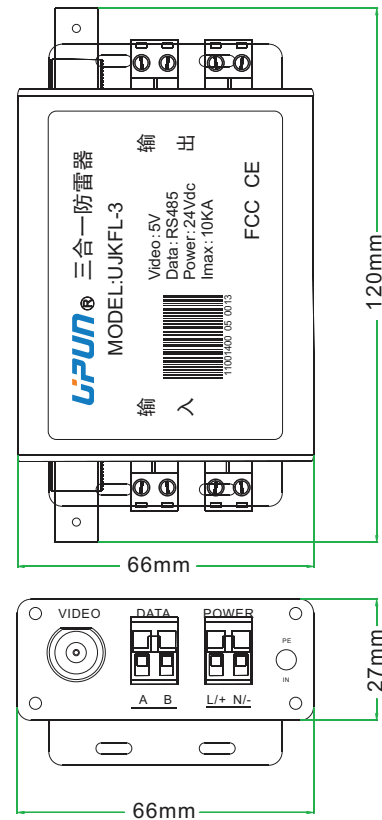
Features

1. Comprehensive protection for power supply of camera, PTZ control signal and video signal, low interference;
2. Large flow, low residual depression;
3. Multi-level protection;
4. Low insertion loss, superior transmission performance, free of leakage current.

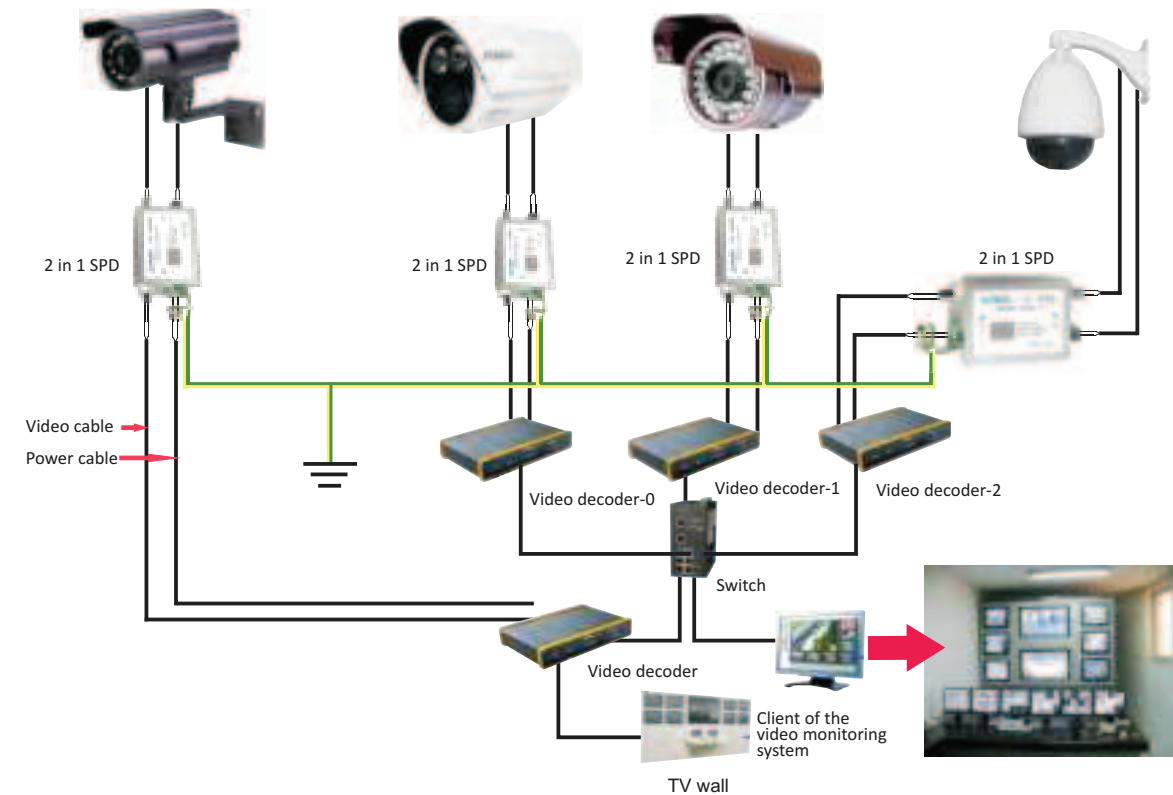
Mounting

1. Prepare for connection
2. Keep it away from rain, it may cause a short circuit.
3. Connect it in the correct direction, the end of output should be connected with the device to be protected.
4. Cut off power source before installing
5. Check the circuit after the installation is completed
6. No special maintenance is required. Just check regularly the product is well-connected and the status indication is working correctly.

Dimension drawing



Installation drawing



2 in 1 CCTV camera SPD
UJKFL-2-220Vac

2 in 1 CCTV camera SPD
UJKFL-2-24Vdc

2 in 1 CCTV camera SPD
UJKFL-2-12Vdc



Ordering data	Type	Order no.	Type	Order no.	Type	Order no.
SPD for monitoring system	UJKFL-2-220Vac	385054	UJKFL-2-24Vdc	385055	UJKFL-2-12Vdc	385056
Dimension						
Length/Width/Thickness	120*66*27mm (connector included)		120*66*27mm (connector included)		120*66*27mm (connector included)	
Technical data						
Power supply						
Operating voltage	220Vac		24Vdc		12Vdc	
Max. continuous operating voltage U _c	275Vac		45Vdc		26Vdc	
Rated operating voltage	3A		3A		3A	
Nominal discharge current I _n 8/20μs	5KA		5KA		5KA	
Max. discharge current I _{max} 8/20μs	10KA		10KA		10KA	
Voltage protection level U _p	900V				100V	
Temperature range °C	-40~+85°C		-40~+85°C		-40~+85°C	
Video						
Operating voltage	≤12V		≤12V		≤12V	
Nominal discharge current I _n 8/20μs	3KA		3KA		3KA	
Max. discharge current I _{max} 8/20μs	5KA		5KA		5KA	
Limiting voltage (10/700μs) Core-Housing/Ground	≤40V		≤40V		≤40V	
Transmission rate	≤100Mbps		≤100Mbps		≤100Mbps	
Impedance	75Ω		75Ω		75Ω	
Insertion loss	≤0.5dB		≤0.5dB		≤0.5dB	
Interface form-I/O	BNC-K/J, 2P crimp terminal		BNC-K/J, 2P crimp terminal		BNC-K/J, 2P crimp terminal	
Others						
Housing	Aluminium alloy		Aluminium alloy		Aluminium alloy	
Conductor connection						
Power supply	16-26AWG (Approx. 0.15~1.3mm ²)		16-26AWG (Approx. 0.15~1.3mm ²)		16-26AWG (Approx. 0.15~1.3mm ²)	
Video signal	BNC		BNC		BNC	
Grounding	Ground terminal block or earth wire of 2.5mm ²		Ground terminal block or earth wire of 2.5mm ²		Ground terminal block or earth wire of 2.5mm ²	
Mounting	Box or cabinet		Box or cabinet		Box or cabinet	

Power supply lightning protection cabinet

3-phase power supply lightning protection cabinet UPK3-□/□-40



Ordering data		Type	Order no.
		UPK3-□/□-40	551001
Dimension			
Width/Thickness/Height		500×220×700mm	
Technical data			
Operating voltage U _o	DC/AC	380V	
Max. continuous operating voltage U _c		385V	
Nominal discharge current I _n		20KA	
Max. discharge current I _{max}		40KA	
Voltage protection level U _p		< 1.8KV	
Response time T _a		≤25ns	
Input/output		□/□	
3-phase/single phase		3-phase	

UPK3-□/□-60



UPK3-□/□-80



UPK3-□/□-100



UPK3-□/□-120



Type	Order no.	Type	Order no.	Type	Order no.	Type	Order no.
UPK3-□/□-60	551002	UPK3-□/□-80	551003	UPK3-□/□-100	551004	UPK3-□/□-120	551005
500×220×700mm		500×220×700mm		500×220×700mm		600×220×800mm	
380V		380V		380V		380V	
385V		385V		385V		385V	
30KA		40KA		50KA		60KA	
60KA		80KA		100KA		120KA	
< 2.0KV		< 2.2KV		< 2.5KV		< 2.8KV	
≤25ns		≤25ns		≤25ns		≤25ns	
□/□		□/□		□/□		□/□	
3-phase		3-phase		3-phase		3-phase	

Single-phase power supply lightning protection cabinet UPK2-1/□-40



Ordering data		Type	Order no.
		UPK2-1/□-40	551006
Dimension			
Width/Thickness/Height		500×220×700mm	
Technical data			
Operating voltage U _o		220V	
Max. continuous operating voltage U _c		235V	
Nominal discharge current I _n		20KA	
Max. discharge current I _{max}		40KA	
Voltage protection level U _p		< 1.8KV	
Response time T _a		≤25ns	
Input/output		1/□	
3-phase/Single phase		Single phase	

UPK2-1/□-60



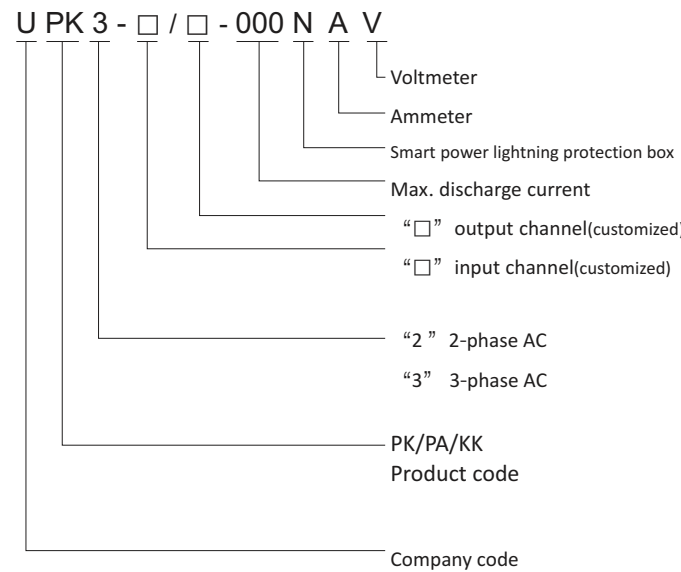
UPK2-1/□-80



UPK2-1/□-100



Type	Order no.	Type	Order no.	Type	Order no.
UPK2-1/□-60	551007	UPK2-1/□-80	551008	UPK2-1/□-100	551009
500×220×700mm		500×220×700mm		500×220×700mm	
220V		220V		220V	
235V		235V		235V	
30KA		40KA		50KA	
60KA		80KA		100KA	
< 2.0KV		< 2.2KV		< 2.5KV	
≤25ns		≤25ns		≤25ns	
1/□		1/□		1/□	
Single phase		Single phase		Single phase	



Application

- The auto city-power switcher is used for switching between the two power supplies of emergency AC power supply system, to guarantee continuous and reliable operation of powered devices. It is mainly used for AC power distribution systems of communication stations, telecommunication rooms and other power.

Features

1. Flexible switching methods, auto/manual switching
2. Switches of well recognized brands home and abroad, e.g Schneider or ABB miniature circuit breakers
3. Possible to pre-install 32A~60A single phase or three phase generator input sockets
4. Optional voltage and current display and power supply operating indication
5. Optional power meter function (use an electric meter or others)
6. Optional generator start timing
7. Level B power supply lightning protector with different specifications and protection modes available on request
8. Level B power supply lightning protector incorporated in cabinet provides excellent protection for short line distance
9. Large peak current, low residual voltage and short response time of power supply lightning protector
10. Optional auxiliary functions of lightning counter, remote signaling and mains power failure alarm etc.
11. Superior electrical insulation

Auto city-power switcher

UKK3-□/□-40



Ordering data	Type	Order no.
	UKK3-□/□-40	561001

Dimension	
Width/Thickness/Height	500×220×700mm

Technical data	
Operating voltage U _o	380V/380V
Max. continuous operating voltage U _c	385V
Nominal discharge current I _n	20KA
Max. discharge current I _{max}	40KA
Voltage protection level U _p	< 1.8KV
Response time T _a	≤25ns
Input/output	□/□
3-phase/Single phase	3-phase

UKK3-□/□-60



UKK3-□/□-80



UKK3-□/□-100



Type	Order no.	Type	Order no.	Type	Order no.
UKK3-□/□-60	561002	UKK3-□/□-80	561003	UKK3-□/□-100	561004

Dimension		Dimension		Dimension	
Width/Thickness/Height	500×220×700mm	Width/Thickness/Height	600×220×800mm	Width/Thickness/Height	600×220×800mm

Technical data		Technical data		Technical data	
Operating voltage U _o	380V/380V	Operating voltage U _o	380V/380V	Operating voltage U _o	380V/
Max. continuous operating voltage U _c	385V	Max. continuous operating voltage U _c	385V	Max. continuous operating voltage U _c	385V
Nominal discharge current I _n	30KA	Nominal discharge current I _n	40KA	Nominal discharge current I _n	50KA
Max. discharge current I _{max}	60KA	Max. discharge current I _{max}	80KA	Max. discharge current I _{max}	100KA
Voltage protection level U _p	< 2.0KV	Voltage protection level U _p	< 2.2KV	Voltage protection level U _p	< 2.5KV
Response time T _a	≤25ns	Response time T _a	≤25ns	Response time T _a	≤25ns
Input/output	□/□	Input/output	□/□	Input/output	□/□
3-phase/Single phase	3-phase	3-phase/Single phase	3-phase	3-phase/Single phase	3-phase

• Application

• Level B and C power supply protection
They are designed for power distribution systems of mobile communication stations, telecommunication stations, computer rooms, power rooms, chemical industries, plants and minings, airports, railways, civil buildings, low voltage AC power distribution, solar PV and wind power generation etc.,

• Can be also used to provide overvoltage and over current protection with the short response time.

Features

1. Excellent performance with core components of well known brands
2. Capacity to withstand continuous and multi lightning strikes with strict current sharing technology
3. High carrying current, low residual voltage and short response time
4. Lightning counter
5. Remote surveillance with remote signaling function
6. SPD window status indication
7. Ensured separation of fault module with power supply system through built-in auto protection devices of the SPD module
8. "3+1" protection as standard, with other optional protection modes as required
9. Use Schneider high performance as back-up protection for the lightning protection cabinet, also possible to choose other foreign brands as customer requirements
10. Kevin wiring for lightning protection cabinet installation to reduce residual voltage of the line and improve the protection.

Standard

UPA385/40



UPA385/60



Ordering data	Type	Order no.	Type	Order no.
	UPA385/40	571007	UPA385/60	571008
Dimension				
Width/Thickness/Height	320 × 130 × 430mm		320 × 130 × 430mm	
Technical data				
Operating voltage U _o	380V/220V		380V/220V	
Max. continuous operating voltage U _c	385V		385V	
Nominal discharge current I _n	20KA		30KA	
Max. discharge current I _{max}	40KA		60KA	
Voltage protection level U _p	< 1.8KV		< 2.0KV	
Protection mode	L-N,N-PE.L-N-PE		L-N,N-PE.L-N-PE	
Response time T _a	<25ns		<25ns	
Lightning counter	With		With	
SPD staus indication	With		With	
Floating remote indication	With		With	

Smart

UPA385/40N



UPA385/60N



Ordering data	Type	Order no.	Type	Order no.
	UPA385/40N	571001	UPA385/60N	571002
Dimension				
Width/Thickness/Height	300 × 120 × 400mm		300 × 120 × 400mm	
Technical data				
Operating voltage U _o	380V/220V		380V/220V	
Max. continuous operating voltage U _c	385V		385V	
Nominal discharge current I _n	20KA		30KA	
Max. discharge current I _{max}	40KA		60KA	
Voltage protection level U _p	< 1.8KV		< 2.0KV	
Protection mode	L-N,N-PE.L-N-PE		L-N,N-PE.L-N-PE	
Response time T _a	<25ns		<25ns	
Lightning counter	With		With	
SPD staus indication	With		With	
Floating remote indication	With		With	

UPA385/80



UPA385/100



UPA385/120



UPA385/150



Type	Order no.	Type	Order no.	Type	Order no.	Type	Order no.
UPA385/80	571009	UPA385/100	571010	UPA385/120	571011	UPA385/150	571012
Dimension							
320 × 130 × 430mm		320 × 130 × 430mm		320 × 130 × 430mm		320 × 130 × 430mm	
Technical data							
380V/220V		380V		380V		380V	
385V		385V		385V		385V	
40KA		50KA		60KA		80KA	
80KA		100KA		120KA		150KA	
< 2.2KV		< 2.5KV		< 2.8KV		< 3.0KV	
L-N,N-PE.L-N-PE		L-N,N-PE.L-N-PE		L-N,N-PE.L-N-PE		L-N,N-PE.L-N-PE	
<25ns		<25ns		<25ns		<25ns	
With		With		With		With	
With		With		With		With	
With		With		With		With	

UPA385/80N



UPA385/100N



UPA385/120N



UPA385/150N



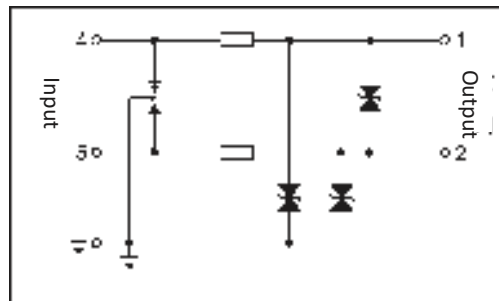
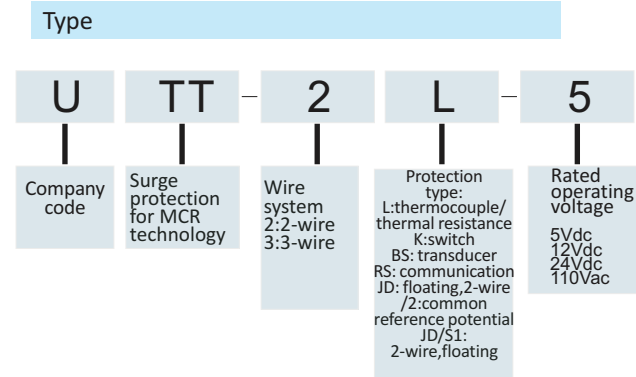
Type	Order no.	Type	Order no.	Type	Order no.	Type	Order no.
UPA385/80N	571003	UPA385/100N	571004	UPA385/120N	571005	UPA385/150N	571006
Dimension							
300 × 120 × 400mm		300 × 120 × 400mm		300 × 120 × 400mm		300 × 120 × 400mm	
Technical data							
380V/220V		380V		380V		380V	
385V		385V		385V		385V	
40KA		50KA		60KA		80KA	
80KA		100KA		120KA		150KA	
< 2.2KV		< 2.5KV		< 2.8KV		< 3.0KV	
L-N,N-PE.L-N-PE		L-N,N-PE.L-N-PE		L-N,N-PE.L-N-PE		L-N,N-PE.L-N-PE	
<25ns		<25ns		<25ns		<25ns	
With		With		With		With	
With		With		With		With	
With		With		With		With	

UTT Series product can be used to provide lightning protection for analog signal of 2-wire and 3-wire system.

Features:

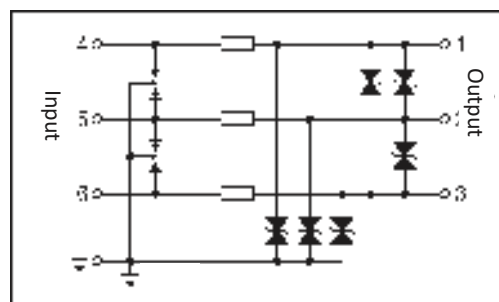
- 1. A narrow width of 7.6mm, space-saving;
- 2. Low impedance;
- 3. Thermocouple and thermal resistance signal input.

For analog signal
UTT-L



Drawing 1

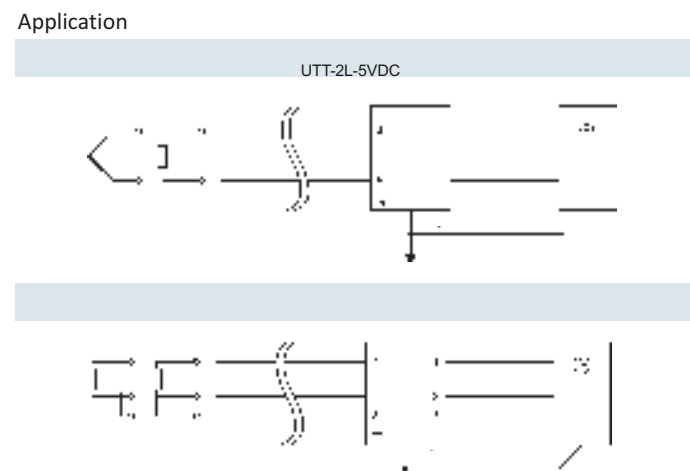
2-wire



Drawing 2

3-wire

Ordering data	Type	Order no.
2-wire(see drawing 1)	UTT-2L-5VDC	385001
3-wire(see drawing 2)	UTT-3L-5VDC	385002
Dimension		
Width/Thickness/Height	99.0/7.6/92.4	
Technical data		
Rated operating voltage	DC	5V
Max. operating voltage	DC	6V
Rated current I _N		250mA
Nominal discharge current I _n 8/20μs		5KA
Max. discharge current I _{max} 8/20μs		10KA
Output voltage limitation 1000V/μs		15V
Output voltage residual 8/20μs		30V
Cut-off frequency -0.5/dB		10MHz
Response time		10ns
Resistance per path		4.7Ω
Temperature range		-20℃~+60℃
Connection data		
Cross section(AWG)		AWG20~12
Cross section		0.5mm~2.5mm
Mounting		
TH35 rails	TH35-7.5	102001
	TH35-15	102005
General data		
Housing material	PA	
Protection degree	IP20	
Test standards	GB/T18802.21-2004 IEC 61643-21:2000	
Accessories		
End bracket: for fixing SPD		



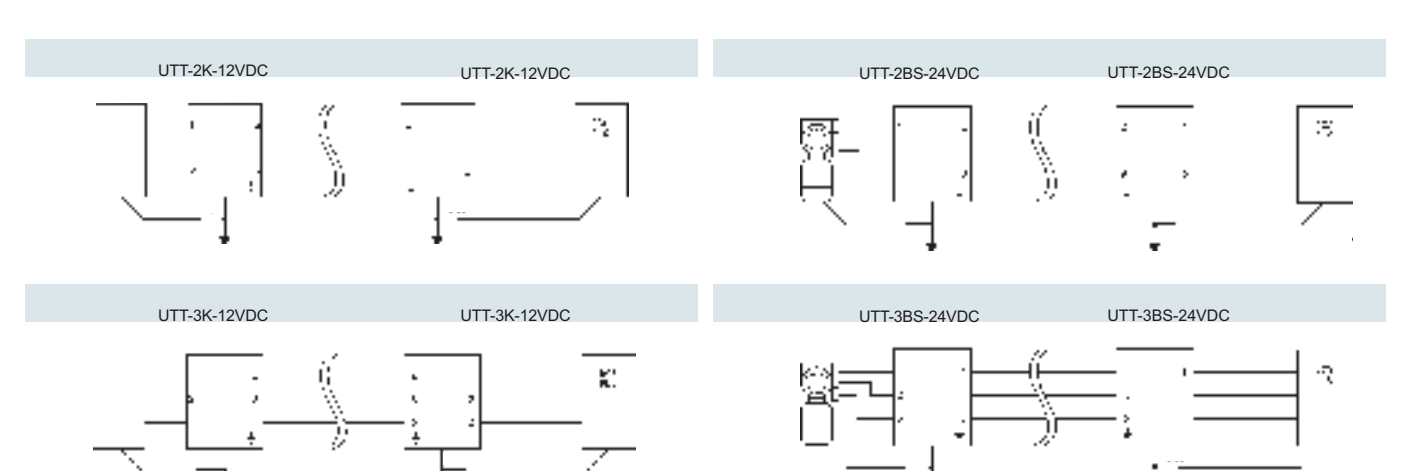
For analog signal
UTT-K



For analog signal
UTT-BS



Type	Order no.	Type	Order no.
UTT-2K-12VDC	385003	UTT-2BS-24VDC	385005
UTT-3K-12VDC	385004	UTT-3BS-24VDC	385006
Dimension			
99.0/7.6/92.4		99.0/7.6/92.4	
Technical data			
12V		24V	
15V		32V	
250mA		250mA	
5KA		5KA	
10KA		10KA	
25V		45V	
40V		60V	
10MHz		10MHz	
10ns		10ns	
4.7Ω		4.7Ω	
-20℃~+60℃		-20℃~+60℃	
AWG20~12		AWG20~12	
0.5mm~2.5mm		0.5mm~2.5mm	
TH35-7.5	102001	TH35-7.5	102001
TH35-15	102005	TH35-15	102005
General data			
PA		PA	
IP20		IP20	
GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000	

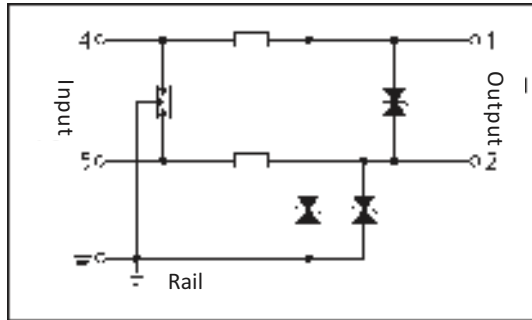


UTT Series product can be used to provide lightning protection for digital signal of 2-wire and 3-wire system.

Features:

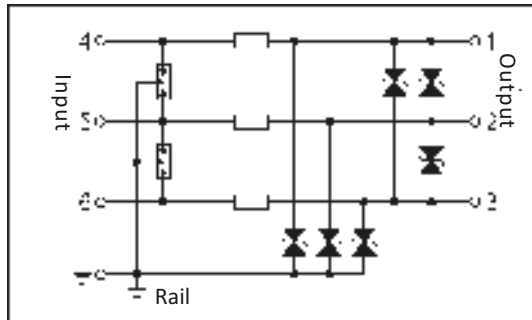
- 1.A narrow width of 7.6mm, space-saving;
- 2.Low impedance;
- 3.RS485 and RS232 signal input.

For digital signal
UTT-RS485



Drawing 1

2-wire



Drawing 2

3-wire

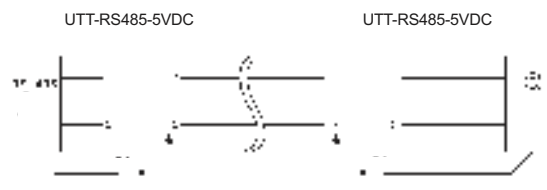
Ordering data	Type	Order no.
2-wire(see drawing 1)	UTT-RS485-5VDC	385007
3-wire(see drawing 2)		
Dimension		
Width/Thickness/Height	99.0/7.6/92.4	
Technical data		
Rated operating voltage	DC	5V
Max. operating voltage	DC	6V
Rated current I _N	250mA	
Nominal discharge current I _n 8/20μs	5KA	
Max. discharge current I _{max} 8/20μs	10KA	
Output voltage limitation 1000V/μs	15V	
Output voltage residual 8/20μs	30V	
Cut-off frequency -0.5/dB	10MHz	
Response time	10ns	
Resistance per path	4.7Ω	
Temperature range	-20℃~+60℃	

Connection data		
Cross section(AWG)	AWG20~12	
Cross section	0.5mm~2.5mm	
Mounting		
TH35 rails	TH35-7.5	102001
	TH35-15	102005

General data		
Housing material	PA	
Protection degree	IP20	
Test standards	GB/T18802.21-2004 IEC 61643-21:2000	

Accessories		
End bracket: for fixing SPD		

Application		



For digital signal
UTT-RS232



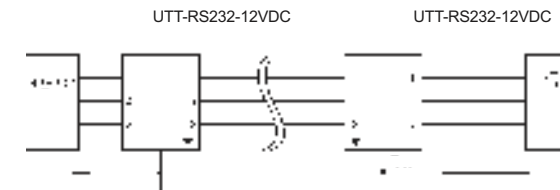
Type	Order no.
UTT-RS232-12VDC	385008
Dimension	
Width/Thickness/Height	99.0/7.6/92.4
Technical data	
Rated operating voltage	12V
Max. operating voltage	15V
Rated current I _N	250mA
Nominal discharge current I _n 8/20μs	5KA
Max. discharge current I _{max} 8/20μs	10KA
Output voltage limitation 1000V/μs	25V
Output voltage residual 8/20μs	40V
Cut-off frequency -0.5/dB	10MHz
Response time	10ns
Resistance per path	4.7Ω
Temperature range	-20℃~+60℃

Connection data	
Cross section(AWG)	AWG20~12
Cross section	0.5mm~2.5mm
Mounting	
TH35 rails	TH35-7.5 102001
	TH35-7.5 102001
	TH35-15

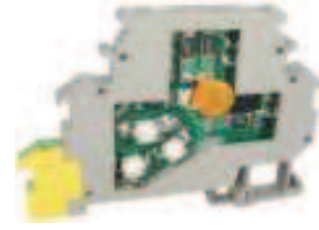
General data	
Housing material	PA
Protection degree	IP20
Test standards	GB/T18802.21-2004 IEC 61643-21:2000

Accessories	
End bracket: for fixing SPD	

Application	



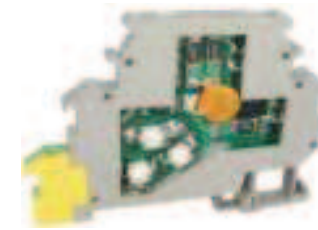
For analog signal
UTT-2JD-24VDC



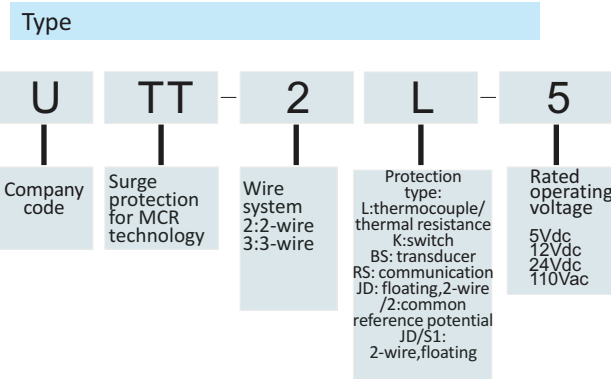
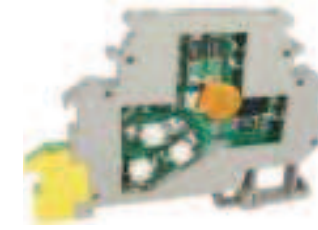
For analog signal
UTT-2JD-110VAC



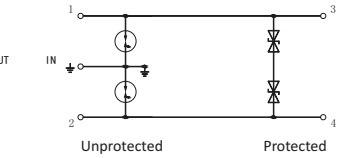
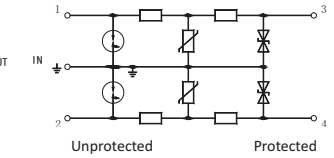
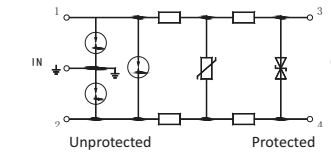
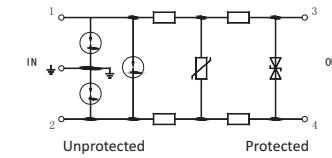
For digital signal
UTT-2/2-24VDC



For analog signal
UTT-2JD/S1-24VDC



Electrical diagrams



Ordering data	Type	Order no.
	UTT-2JD-24VDC	385009

Type	Order no.
UTT-2JD-110VAC	385010

Type	Order no.
UTT-2/2-24VDC	385011

Type	Order no.
UTT-2JD/S1-24VDC	385012

Dimension	Width/Thickness/Height
	79.6/54.6/6.2mm

Dimension	Width/Thickness/Height
	79.6/54.6/6.2mm

Dimension	Width/Thickness/Height
	79.6/54.6/6.2mm

Dimension	Width/Thickness/Height
	79.6/54.6/6.2mm

Technical data		
Max. continuous operating voltage	DC/AC	30V/21V
Impulse discharge current	10/350µs	500A/path
Rated current I _N		300mA
Nominal discharge current I _n	8/20µs	5KA/5KA
Max. discharge current I _{max}	8/20µs	10KA
Output voltage limitation	1000V/µs	≤44V/≤650V
Output voltage residual	8/20µs	≤53V/≤650V
Response time		≤1ns/≤100ns
Resistance per path		3.7Ω±5%
Temperature range		-20℃~+60℃

Technical data		
Max. continuous operating voltage	DC/AC	170V/120V
Impulse discharge current	10/350µs	500A/path
Rated current I _N		300mA
Nominal discharge current I _n	8/20µs	5KA/5KA
Max. discharge current I _{max}	8/20µs	10KA
Output voltage limitation	1000V/µs	≤250V/≤650V
Output voltage residual	8/20µs	≤60V/-
Response time		≤1ns/≤100ns
Resistance per path		9.4Ω±5%
Temperature range		-20℃~+60℃

Technical data		
Max. continuous operating voltage	DC/AC	30V/21V
Impulse discharge current	10/350µs	500A/path
Rated current I _N		300mA
Nominal discharge current I _n	8/20µs	-5KA
Max. discharge current I _{max}	8/20µs	10KA
Output voltage limitation	1000V/µs	-/≤42V
Output voltage residual	8/20µs	-/≤70
Response time		-/1ns
Resistance per path		9.4Ω±5%
Temperature range		-20℃~+60℃

Technical data		
Max. continuous operating voltage	DC/AC	30V/21V
Impulse discharge current	10/350µs	500A/path
Rated current I _N		10A
Nominal discharge current I _n	8/20µs	300A/5KA
Max. discharge current I _{max}	8/20µs	10KA
Output voltage limitation	1000V/µs	≤50V/≤1500V
Output voltage residual	8/20µs	≤80V/≤50
Response time		≤1ns/100ns
Resistance per path		5mΩ±5%
Temperature range		-20℃~+60℃

Connection data		
Cross section		0.2-2.5mm ²

Connection data		
Cross section		0.2-2.5mm ²

Connection data		
Cross section		0.2-2.5mm ²

Connection data		
Cross section		0.2-2.5mm ²

Mounting		
TH35 rails		TH35-7.5 102001 TH35-15 102005

Mounting		
TH35 rails		TH35-7.5 102001 TH35-15 102005

Mounting		
TH35 rails		TH35-7.5 102001 TH35-15 102005

Mounting		
TH35 rails		TH35-7.5 102001 TH35-15 102005

General data		
Protection degree		IP20
Test standards		GB/T18802.21-2004 IEC 61643-21:2000

General data		
Protection degree		IP20
Test standards		GB/T18802.21-2004 IEC 61643-21:2000

General data		
Protection degree		IP20
Test standards		GB/T18802.21-2004 IEC 61643-21:2000

General data		
Protection degree		IP20
Test standards		GB/T18802.21-2004 IEC 61643-21:2000

Accessories		
End bracket: for fixing SPD		UTT-G 385013

Accessories		
End bracket: for fixing SPD		UTT-G 385013

Accessories		
End bracket: for fixing SPD		UTT-G 385013

Accessories		
End bracket: for fixing SPD		UTT-G 385013

Marker strip		
Horizontally/Vertically	Blank	UZB 6-10 014002
Can be printed 1-600, or the technical data according to your requirements.	Horizontally	UZB 6-10(Horizontally) 014007
	Vertically	UZB 6-10(Vertically) 014008

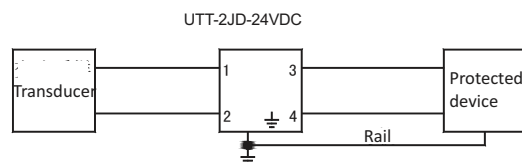
Marker strip		
Horizontally/Vertically	Blank	UZB 6-10 014002
Can be printed 1-600, or the technical data according to your requirements.	Horizontally	UZB 6-10(Horizontally) 014007
	Vertically	UZB 6-10(Vertically) 014008

Marker strip		
Horizontally/Vertically	Blank	UZB 6-10 014002
Can be printed 1-600, or the technical data according to your requirements.	Horizontally	UZB 6-10(Horizontally) 014007
	Vertically	UZB 6-10(Vertically) 014008

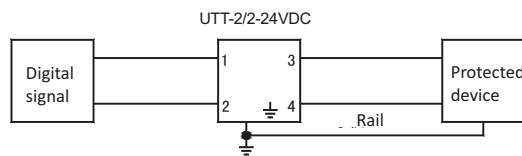
Marker strip		
Horizontally/Vertically	Blank	UZB 6-10 014002
Can be printed 1-600, or the technical data according to your requirements.	Horizontally	UZB 6-10(Horizontally) 014007
	Vertically	UZB 6-10(Vertically) 014008

Application

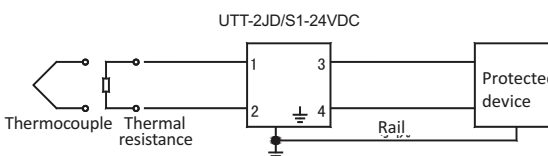
1. The product(type:UTT-2JD-24VDC) can be used to protect analog signal, such as 0-20mA, 0-10V



2. The product(type:UTT-2/2-24VDC) can be used to protect 2-wire with common reference potential, such as binary signal

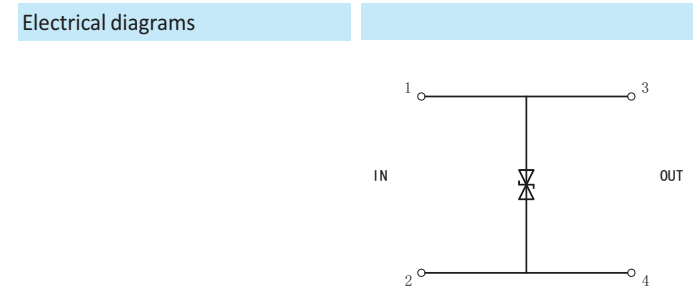
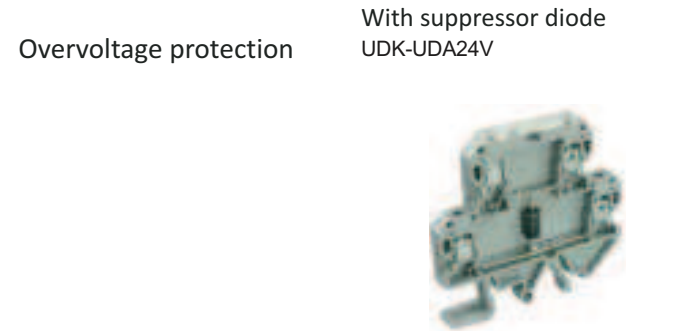
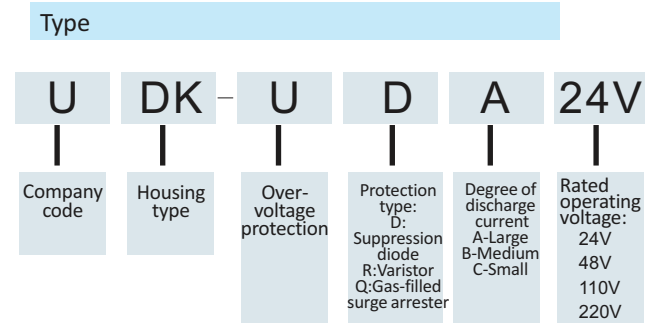


3. The product(type:UTT-2JD/S1-24VDC) can be used to protect floating double wire, such as temperature measurement



Transient-voltage-suppression diode

A transient-voltage-suppression diode may be either unidirectional or bidirectional. Compared to the voltage regulator tube, the suppressor diode has a shorter response time(pS).



Ordering data	Type	Order no.
	UDK-UDA24Vdc	293013
	UDK-UDA24Vac	293001

Dimension	65.5/6.2/57mm	
Width/Thickness/Height		

Technical data	UDK-UDA24Vdc	UDK-UDA24Vac
Rated operating voltage	24Vdc	24Vac
Rated current I _N	20A	20A
Max. continuous operating voltage U _c DC	33Vdc	43Vdc
Max. continuous operating voltage U _c AC	22Vac	29Vac
Nominal discharge current I _n (10/1000us)	95.7A	73.5A
Residual voltage at I _n	45.4V	64.5V
Response time t _a	< 1ns	< 1ns

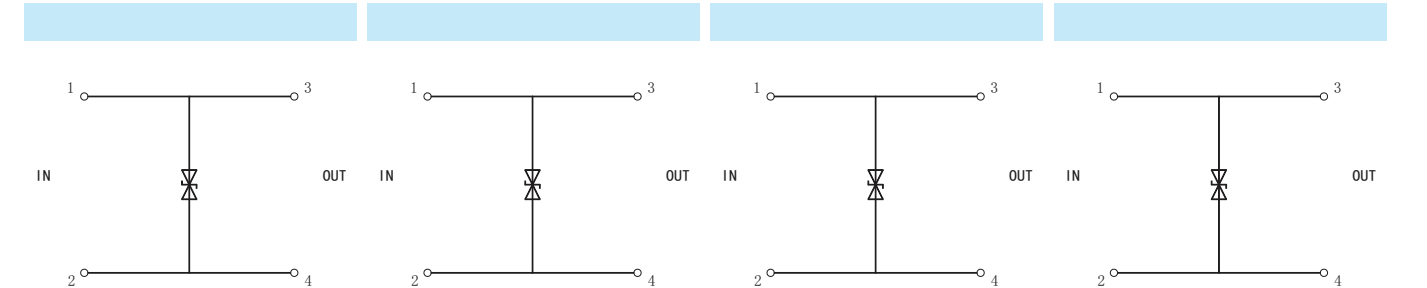
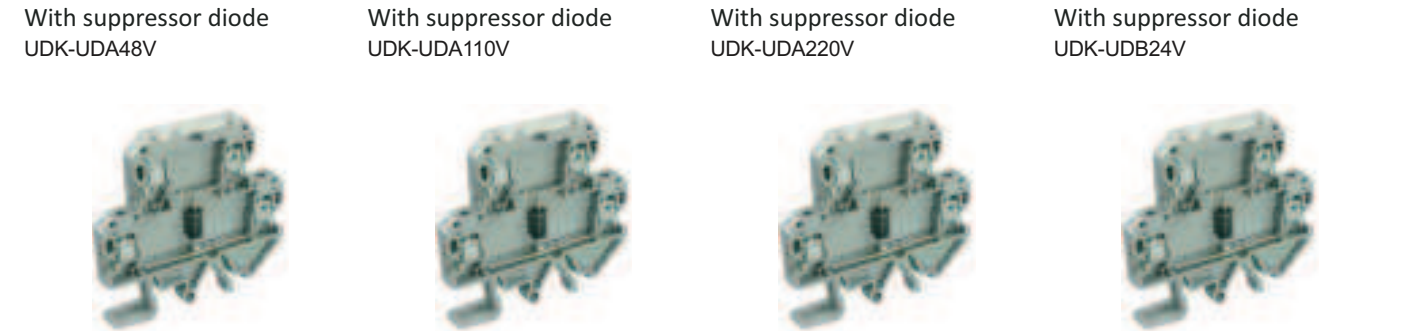
General data	PA	
Housing material		
Protection degree	IP20	
Test standards	GB/T18802.21-2004 IEC 61643-21:2000	
IEC test classification	C3	

Connection data	AWG20~12	
Cross section(AWG)		
Cross section	0.5mm~4mm	

Accessories	UDK-F 312002	
Dustproof cover		

End cover	UDK-G 312001	

Insertion bridge	UEB 2-6 013019	
2-pos.		
3-pos.	UEB 3-6 013027	
10-pos.	UEB10-6 013013	
Screwdriver	YB 0.6×3.5 304002	



Type	Order no.	Type	Order no.	Type	Order no.	Type	Order no.
UDK-UDA48Vdc	293014	UDK-UDA110Vdc	293015	UDK-UDA220Vdc	293004	UDK-USB24Vdc	293016
UDK-UDA48Vac	293002	UDK-UDA110Vac	293003			UDK-USB24Vac	293005

65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm		
Width/Thickness/Height								

UDK-UDA48Vdc	UDK-UDA48Vac	UDK-UDA110Vdc	UDK-UDA110Vac	UDK-UDA220Vdc	UDK-USB24Vdc	UDK-USB24Vac
48Vdc	48Vac	110Vdc	110Vac	220Vdc	24dc	24dc
20A	20A	20A	20A	20A	20A	20A
70Vdc	85Vdc	160Vdc	220Vdc	250Vdc	33Vdc	47Vdc
48Vac	58Vac	109Vac	150Vac	176Vac	20Vac	28Vac
45.1A	37.2A	19.7A	13.7A	12A	32.8A	23.1A
87.1V	126V	209V	308V	425V	45.7V	64.8
< 1ns	< 1ns	< 1ns	< 1ns	< 1ns	< 1ns	< 1ns

PA		PA		PA		PA		
Housing material								
Protection degree	IP20		IP20		IP20		IP20	
Test standards	GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000	
IEC test classification	C3		C3		C3		C3	

AWG20~12		AWG20~12		AWG20~12		AWG20~12		
Cross section(AWG)								
Cross section	0.5mm~4mm		0.5mm~4mm		0.5mm~4mm		0.5mm~4mm	

UDK-F 312002		UDK-F 312002		UDK-F 312002		UDK-F 312002		
Dustproof cover								

UDK-G 312001		UDK-G 312001		UDK-G 312001		UDK-G 312001		
End cover								

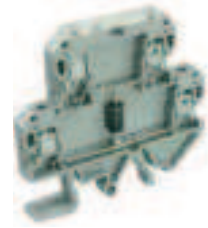
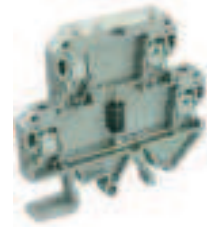
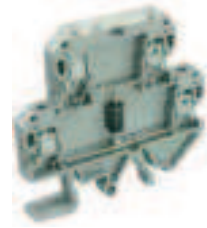
UEB 2-6 013019		UEB 2-6 013019		UEB 2-6 013019		UEB 2-6 013019		
2-pos.								
3-pos.	UEB 3-6 013027		UEB 3-6 013027		UEB 3-6 013027		UEB 3-6 013027	
10-pos.	UEB10-6 013013		UEB10-6 013013		UEB10-6 013013		UEB10-6 013013	
Screwdriver	YB 0.6×3.5 304002		YB 0.6×3.5 304002		YB 0.6×3.5 304002		YB 0.6×3.5 304002	

Overvoltage protection

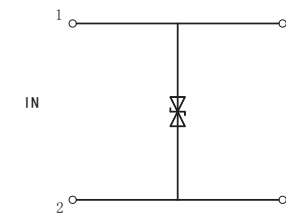
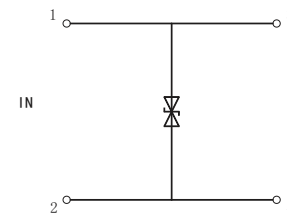
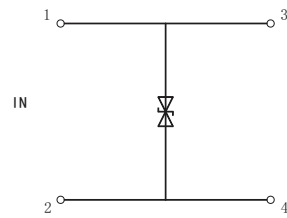
With suppressor diode
UDK-UDB48V

With suppressor diode
UDK-UDB110V

With suppressor diode
UDK-UDB220V



Electrical diagrams



Ordering data

Type	Order no.	Type	Order no.	Type	Order no.
UDK-UDB 48Vdc	293017	UDK-UDB 110Vdc	293018	UDK-UDB 220Vdc	293008
UDK-UDB 48Vac	293006	UDK-UDB 110Vac	293007		

Dimension

Width/Thickness/Height	65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm
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Technical data

	UDK-UDB 48Vdc	UDK-UDB 48Vac	UDK-UDB 110Vdc	UDK-UDB 110Vac	UDK-UDB 220Vdc
Rated operating voltage	48Vdc	48Vac	110Vdc	110Vac	220Vdc
Rated current I _N	20A	20A	20A	20A	20A
Max. continuous operating voltage U _c DC	58Vdc	77.8Vdc	128Vdc	185Vdc	256Vdc
Max. continuous operating voltage U _c AC	40Vac	53Vac	88Vac	128Vac	175Vac
Nominal discharge current I _n (10/1000us)	16.3A	12A	7.3A	4.6A	3.7A
Residual voltage at I _n	85V	125V	207V	328V	414V
Response time t _a	< 1ns	< 1ns	< 1ns	< 1ns	< 1ns

General data

Housing material	PA		PA		PA
Protection degree	IP20		IP20		IP20
Test standards	GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000
IEC test classification	C3		C3		C3

Connection data

Cross section(AWG)	AWG20~12		AWG20~12		AWG20~12
Cross section	0.5mm~4mm		0.5mm~4mm		0.5mm~4mm

Accessories

Dustproof cover	UDK-F	312002	UDK-F	312002	UDK-F	312002
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End cover

	UDK-G	312001	UDK-G	312001	UDK-G	312001
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Insertion bridge

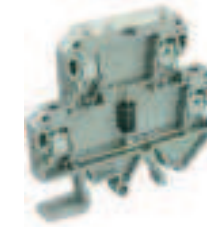
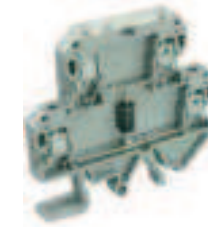
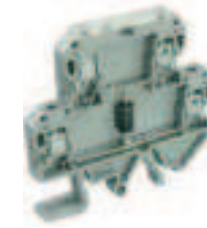
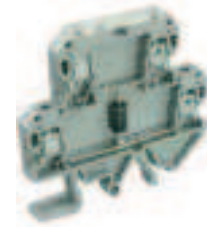
2-pos.	UEB 2-6	013019	UEB 2-6	013019	UEB 2-6	013019
3-pos.	UEB 3-6	013027	UEB 3-6	013027	UEB 3-6	013027
10-pos.	UEB10-6	013013	UEB10-6	013013	UEB10-6	013013
Screwdriver	YB 0.6×3.5	304002	YB 0.6×3.5	304002	YB 0.6×3.5	304002

With suppressor diode
UDK-UDC24V

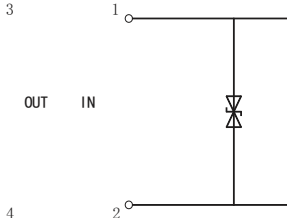
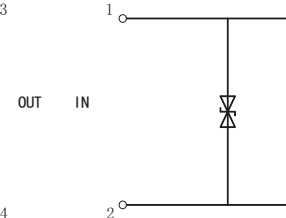
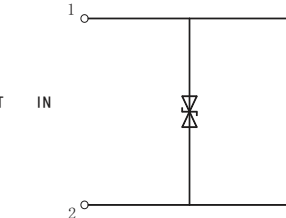
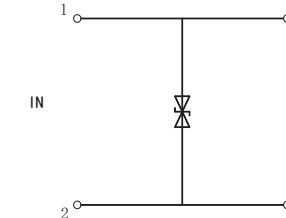
With suppressor diode
UDK-UDC48V

With suppressor diode
UDK-UDC110V

With suppressor diode
UDK-UDC220V



Electrical diagrams



Ordering data

Type	Order no.	Type	Order no.	Type	Order no.	Type	Order no.
UDK-UDC 24Vdc	293019	UDK-UDC 48Vdc	293020	UDK-UDC 110Vdc	293021	UDK-UDC 220Vdc	293012
UDK-UDC 24Vac	293009	UDK-UDC 48Vac	293010	UDK-UDC 110Vac	293011		

Dimension

Width/Thickness/Height	65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm
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Technical data

	UDK-UDC 24Vdc	UDK-UDC 24Vac	UDK-UDC 48Vdc	UDK-UDC 48Vac	UDK-UDC 110Vdc	UDK-UDC 110Vac	UDK-UDC 220Vdc
Rated operating voltage	24Vdc	24Vac	48Vdc	48Vac	110Vdc	110Vac	220Vdc
Rated current I _N	20A	20A	20A	20A	20A	20A	20A
Max. continuous operating voltage U _c DC	28Vdc	40Vdc	53Vdc	77Vdc	128Vdc	185Vdc	256Vdc
Max. continuous operating voltage U _c AC	20Vac	28Vac	37Vac	53Vac	90Vac	128Vac	181Vac
Nominal discharge current I _n (10/1000us)	13.3A	10.3A	6.6A	4.8A	2.8A	1.9A	1.3A
Residual voltage at I _n	45.7V	70.1V	85V	125V	207V	328V	85V
Response time t _a	< 1ns	< 1ns	< 1ns	< 1ns	< 1ns	< 1ns	< 1ns

General data

Housing material	PA		PA		PA		PA
Protection degree	IP20		IP20		IP20		IP20
Test standards	GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000
IEC test classification	C3		C3		C3		C3

Connection data

Cross section(AWG)	AWG20~12		AWG20~12		AWG20~12		AWG20~12
Cross section	0.5mm~4mm		0.5mm~4mm		0.5mm~4mm		0.5mm~4mm

Accessories

Dustproof cover	UDK-F	312002	UDK-F	312002	UDK-F	312002	UDK-F	312002
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End cover

	UDK-G	312001	UDK-G	312001	UDK-G	312001	UDK-G	312001
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Insertion bridge

2-pos.	UEB 2-6	013019	UEB 2-6	013019	UEB 2-6	013019	UEB 2-6	013019
3-pos.	UEB 3-6	013027	UEB 3-6	013027	UEB 3-6	013027	UEB 3-6	013027
10-pos.	UEB10-6	013013	UEB10-6	013013	UEB10-6	013013	UEB10-6	013013
Screwdriver	YB 0.6×3.5	304002	YB 0.6×3.5	304002	YB 0.6×3.5	304002	YB 0.6×3.5	304002

Varistor

Varistor is typically used in parallel with the component or device to be protected. The varistor allows the pass of the maximum AC operating voltage. Any voltage higher than the indicated voltage will be converted safely. The varistor can be applied to medium or higher voltage surge circuits.

With varistor
UDK-URA24V



With varistor
UDK-URA48V



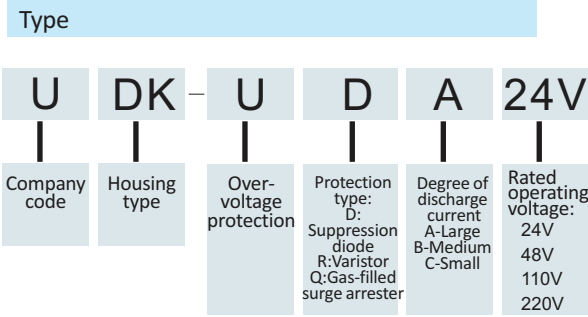
With varistor
UDK-URA110V



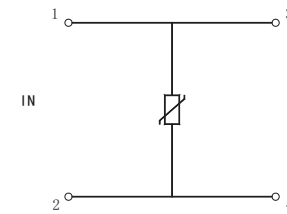
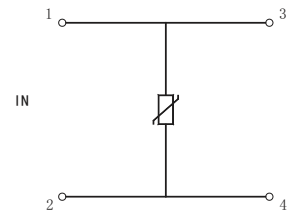
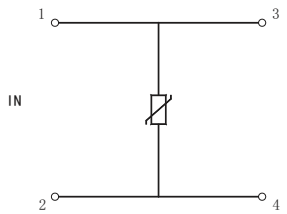
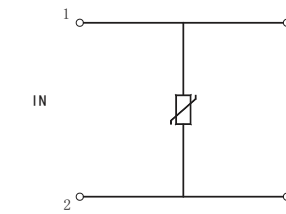
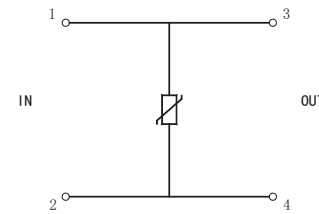
With varistor
UDK-URA220V



With varistor
UDK-URB24V



Electrical diagrams



Ordering data	Type	Order no.
	UDK-URA 24Vdc	294009
	UDK-URA 24Vac	294005

Dimension	65.5/6.2/57mm	
Width/Thickness/Height		

Technical data	UDK-URA 24Vdc	UDK-URA 24Vac
Rated operating voltage	24Vdc	24Vac
Rated current I _N	20A	20A
Max. continuous operating voltage U _c DC	38V	56V
Max. continuous operating voltage U _c AC	30V	40V
Breakdown voltage V _{1mA}	47V	60V
Nominal discharge current I _n (8/20)μs	0.5KA	0.5KA
Reference capacitance	1500pf	1250pf

General data	PA	
Housing material		
Protection degree	IP20	
Test standards	GB/T18802.21-2004 IEC 61643-21:2000	
IEC test classification	C3	

Connection data	AWG20~12	
Cross section(AWG)		
Cross section	0.5mm~4mm	

Accessories	UDK-F 312002	
Dustproof cover		

End cover	UDK-G 312001	

Insertion bridge	UEB 2-6 013019	
2-pos.		
3-pos.	UEB 3-6 013027	
10-pos.	UEB10-6 013013	

Screwdriver	YB 0.6×3.5 304002	

Type	Order no.	Type	Order no.	Type	Order no.	Type	Order no.
UDK-URA 48Vdc	294010	UDK-URA 110Vdc	294011	UDK-URA 220Vdc	294012	UDK-URB 24Vdc	294013
UDK-URA 48Vac	294006	UDK-URA 110Vac	294007	UDK-URA 220Vac	294008	UDK-URB 24Vac	294001

65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm	
UDK-URA 48Vdc	UDK-URA 48Vac	UDK-URA 110Vdc	UDK-URA 110Vac	UDK-URA 220Vdc	UDK-URA 220Vac	UDK-URB 24Vdc	UDK-URB 24Vac

48Vdc		110Vdc		220Vdc		24Vdc	
48Vdc	48Vac	110Vdc	110Vac	220Vdc	220Vac	24Vdc	24Vac
20A	20A	20A	20A	20A	20A	20A	20A
85V	125V	150V	180V	300V	350V	38V	56V
60V	95V	115V	140V	230V	275V	30V	40V
100V	150V	180V	220V	360V	430V	47V	68V
2.5KA	2.5KA	2.5KA	2.5KA	2.5KA	2.5KA	1KA	1KA
920pf	760pf	310pf	270pf	610pf	160pf	3800pf	270pf

PA		PA		PA		PA	
PA	PA	PA	PA	PA	PA	PA	PA
IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
GB/T18802.21-2004	IEC 61643-21:2000	GB/T18802.21-2004	IEC 61643-21:2000	GB/T18802.21-2004	IEC 61643-21:2000	GB/T18802.21-2004	IEC 61643-21:2000
C1、C2	C3	C3	C3	C3	C3	C3	C3

AWG20~12		AWG20~12		AWG20~12		AWG20~12	
AWG20~12	AWG20~12	AWG20~12	AWG20~12	AWG20~12	AWG20~12	AWG20~12	AWG20~12
0.5mm~4mm	0.5mm~4mm	0.5mm~4mm	0.5mm~4mm	0.5mm~4mm	0.5mm~4mm	0.5mm~4mm	0.5mm~4mm

UDK-F 312002		UDK-F 312002		UDK-F 312002		UDK-F 312002	
UDK-F	312002	UDK-F	312002	UDK-F	312002	UDK-F	312002

UDK-G 312001		UDK-G 312001		UDK-G 312001		UDK-G 312001	
UDK-G	312001	UDK-G	312001	UDK-G	312001	UDK-G	312001

UEB 2-6 013019		UEB 2-6 013019		UEB 2-6 013019		UEB 2-6 013019	
UEB 2-6	013019	UEB 2-6	013019	UEB 2-6	013019	UEB 2-6	013019
UEB 3-6	013027	UEB 3-6	013027	UEB 3-6	013027	UEB 3-6	013027
UEB10-6	013013	UEB10-6	013013	UEB10-6	013013	UEB10-6	013013

YB 0.6×3.5 304002		YB 0.6×3.5 304002		YB 0.6×3.5 304002		YB 0.6×3.5 304002	
YB 0.6×3.5	304002	YB 0.6×3.5	304002	YB 0.6×3.5	304002	YB 0.6×3.5	304002

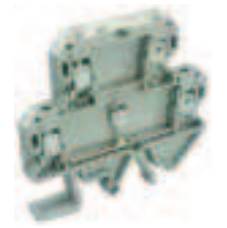
With varistor
UDK-URB48V

With varistor
UDK-URB110V

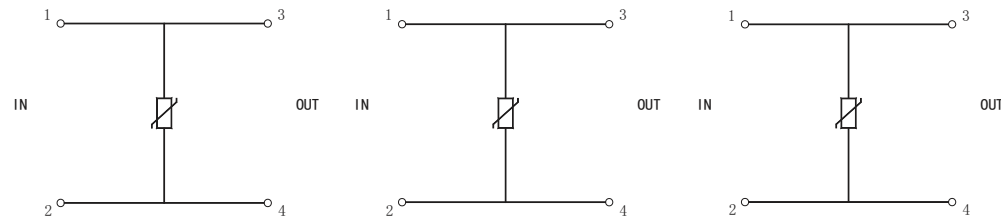
With varistor
UDK-URB220V



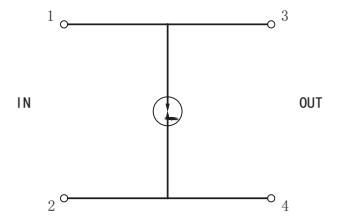
With gas-filled surge arrester
UDK-UQA110V



Electrical diagrams



Electrical diagrams



Ordering data	Type	Order no.	Type	Order no.	Type	Order no.
	UDK-URB 48Vdc	294014	UDK-URB 110Vdc	294015	UDK-URB 220Vdc	294016
	UDK-URB 48Vac	294002	UDK-URB 110Vac	294003	UDK-URB 220Vac	294004

Ordering data	Type	Order no.
	UDK-UQA 110Vdc	295013
	UDK-UQA 110Vac	295009

Dimension	UDK-URB 48Vdc		UDK-URB 110Vdc		UDK-URB 220Vdc	
Width/Thickness/Height	65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm	

Dimension	UDK-UQA 110Vdc		UDK-UQA 110Vac	
Width/Thickness/Height	65.5/6.2/57mm		65.5/6.2/57mm	

Technical data	UDK-URB 48Vdc		UDK-URB 110Vdc		UDK-URB 220Vdc	
Rated operating voltage	48Vdc	48Vac	110Vdc	110Vac	220Vdc	220Vac
Rated current I _N	20A	20A	20A	20A	20A	20A
Max. continuous operating voltage U _c DC	85V	125V	150V	180V	300V	350V
Max. continuous operating voltage U _c AC	60V	95V	115V	140V	230V	275V
Breakdown voltage V _{1mA}	100V	150V	180V	220V	360V	430V
Nominal discharge current I _n (8/20)μs	4.5KA	4.5KA	4.5KA	4.5KA	4.5KA	4.5KA
Reference capacitance	1900pf	940pf	800pf	640pf	430pf	370pf

Technical data	UDK-UQA 110Vdc	UDK-UQA 110Vac
Rated operating voltage	110Vdc	110Vac
Rated current I _N	20A	20A
Max. continuous operating voltage U _c DC	127V	195V
Max. continuous operating voltage U _c AC	90V	138V
Nominal discharge current I _n (8/20)μs	5KA	5KA
Output voltage limitation at 1kV/us	≤ 700V	≤ 700V
Response time t _a	≤ 100ns	≤ 100ns

General data	UDK-URB 48Vdc		UDK-URB 110Vdc		UDK-URB 220Vdc	
Housing material	PA		PA		PA	
Protection degree	IP20		IP20		IP20	
Test standards	GB/T18802.21:2004 IEC 61643-21:2000		GB/T18802.21:2004 IEC 61643-21:2000		GB/T18802.21:2004 IEC 61643-21:2000	
IEC test classification	C1、C2		C3		C3	

General data	UDK-UQA 110Vdc		UDK-UQA 110Vac	
Housing material	PA		PA	
Protection degree	IP20		IP20	
Test standards	GB/T18802.21:2004 IEC 61643-21:2000		GB/T18802.21:2004 IEC 61643-21:2000	
IEC test classification	C1、C2		C1、C2	

Connection data	UDK-URB 48Vdc		UDK-URB 110Vdc		UDK-URB 220Vdc	
Cross section(AWG)	AWG20~12		AWG20~12		AWG20~12	
Cross section	0.5mm~4mm		0.5mm~4mm		0.5mm~4mm	

Connection data	UDK-UQA 110Vdc		UDK-UQA 110Vac	
Cross section(AWG)	AWG20~12		AWG20~12	
Cross section	0.5mm~4mm		0.5mm~4mm	

Accessories	UDK-URB 48Vdc		UDK-URB 110Vdc		UDK-URB 220Vdc	
Dustproof cover	UDK-F	312002	UDK-F	312002	UDK-F	312002

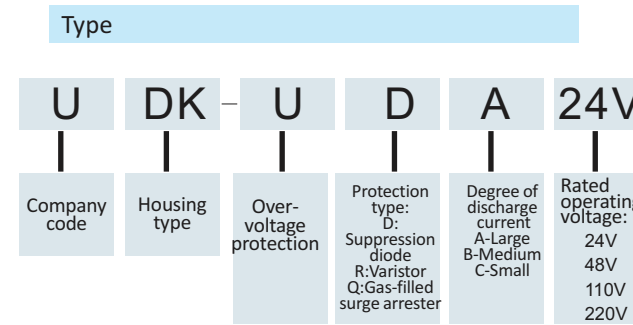
Accessories	UDK-UQA 110Vdc		UDK-UQA 110Vac	
Dustproof cover	UDK-F	312002	UDK-F	312002

End cover	UDK-URB 48Vdc		UDK-URB 110Vdc		UDK-URB 220Vdc	
	UDK-G	312001	UDK-G	312001	UDK-G	312001

End cover	UDK-UQA 110Vdc		UDK-UQA 110Vac	
	UDK-G	312001	UDK-G	312001

Insertion bridge	UDK-URB 48Vdc		UDK-URB 110Vdc		UDK-URB 220Vdc	
2-pos.	UEB 2-6	013019	UEB 2-6	013019	UEB 2-6	013019
3-pos.	UEB 3-6	013027	UEB 3-6	013027	UEB 3-6	013027
10-pos.	UEB10-6	013013	UEB10-6	013013	UEB10-6	013013
Screwdriver	YB 0.6×3.5	304002	YB 0.6×3.5	304002	YB 0.6×3.5	304002

Insertion bridge	UDK-UQA 110Vdc		UDK-UQA 110Vac	
2-pos.	UEB 2-6	013019	UEB 2-6	013019
3-pos.	UEB 3-6	013027	UEB 3-6	013027
10-pos.	UEB10-6	013013	UEB10-6	013013
Screwdriver	YB 0.6×3.5	304002	YB 0.6×3.5	304002

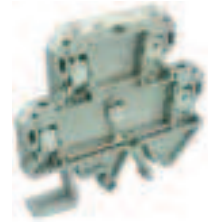
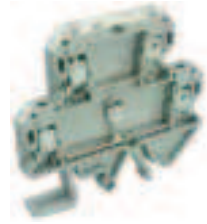


UDK-U Overvoltage protection series

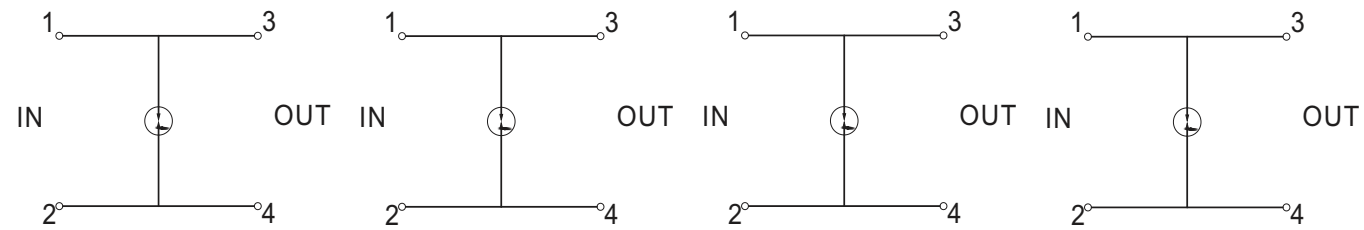
With gas-filled surge arrester
UDK-UQA220V

With gas-filled surge arrester
UDK-UQB110V

With gas-filled surge arrester
UDK-UQB220V



Electrical diagrams



Ordering data	Type	Order no.	Type	Order no.	Type	Order no.
	UDK-UQA 220Vdc	295014	UDK-UQB 110Vdc	295011	UDK-UQB 220Vdc	295012
	UDK-UQA 220Vac	295010	UDK-UQB 110Vac	295006	UDK-UQB 220Vac	295007

Dimension	65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm	
Width/Thickness/Height	65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm	

Technical data	UDK-UQA 220Vdc		UDK-UQA 220Vac		UDK-UQB 110Vdc		UDK-UQB 110Vac		UDK-UQB 220Vdc		UDK-UQB 220Vac	
Rated operating voltage	220Vdc		220Vac		110Vdc		110Vac		220Vdc		220Vac	
Rated impulse voltage	4kV		4kV		4kV		4kV		4kV		4kV	
Rated current I _N	20A		20A		20A		20A		20A		20A	
Max. continuous operating voltage U _c	DC	255V	399V	127V	195V	255V	399V	AC	180V	282V	90V	137V
Max. continuous operating voltage U _c	AC	180V	282V	90V	137V	180V	282V	AC	180V	282V	90V	137V
Nominal discharge current I _n (8/20)us	5kA		5kA		10kA		10kA		10kA		10kA	
Output voltage limitation at 1kV/us	≤ 900V		≤ 1200V		≤ 800V		≤ 800V		≤ 900V		≤ 1200V	
Response time t _a	≤ 100ns		≤ 100ns		≤ 100ns		≤ 100ns		≤ 100ns		≤ 100ns	

Temperature range	-25°C ~ +40°C											
Clearance and creepage distance	≥ 3mm											
Cross section(AWG)	AWG20~12											
Cross section	0.5mm~4mm											

General data	PA		PA		PA	
Housing material	PA		PA		PA	
Protection degree	IP20		IP20		IP20	
Pollution degree	2		2		2	
Test standards	GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000	
IEC test classification	C1、C2		C1、C2		C1、C2	
Surge voltage category	III		III		III	

Accessories	UDK-F		UDK-F		UDK-F	
Dustproof cover	UDK-F		UDK-F		UDK-F	

End cover	UDK-G		UDK-G		UDK-G	
End cover	UDK-G		UDK-G		UDK-G	

Insertion bridge	UEB 2-6		UEB 2-6		UEB 2-6	
2-pos.	UEB 2-6		UEB 2-6		UEB 2-6	
3-pos.	UEB 3-6		UEB 3-6		UEB 3-6	
10-pos.	UEB10-6		UEB10-6		UEB10-6	

Screwdriver	YB 0.6×3.5		YB 0.6×3.5		YB 0.6×3.5	
Screwdriver	YB 0.6×3.5		YB 0.6×3.5		YB 0.6×3.5	

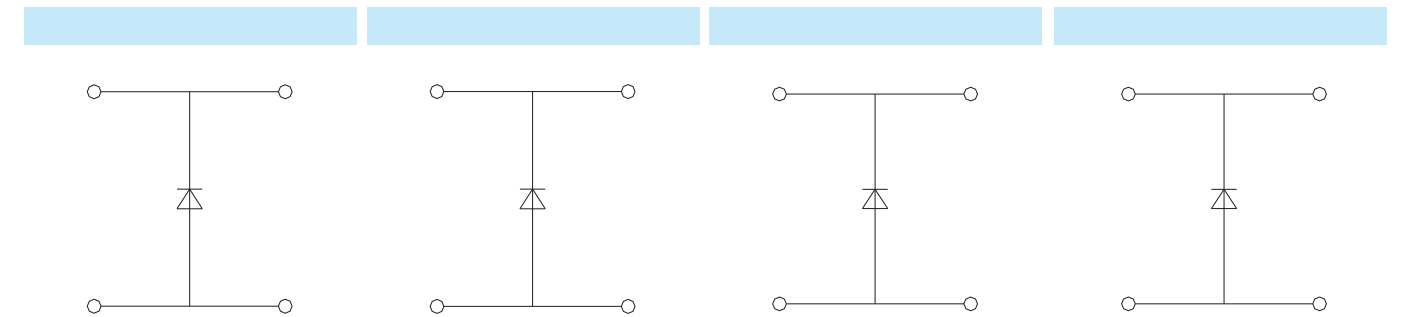
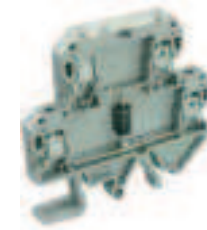
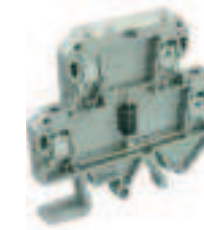
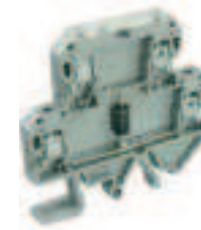
UDK-D Overvoltage protection series

With diode
UDK-D24Vdc

With diode
UDK-D48Vdc

With diode
UDK-D110Vdc

With diode
UDK-D220Vdc



Type	Order no.	Type	Order no.	Type	Order no.	Type	Order no.
UDK-D 24Vdc	297005	UDK-D 48Vdc	297006	UDK-D 110Vdc	297007	UDK-D 220Vdc	297008

Dimension	65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm	
Width/Thickness/Height	65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm		65.5/6.2/57mm	

Technical data	UDK-D 24Vdc		UDK-D 48Vdc		UDK-D 110Vdc		UDK-D 220Vdc	
Rated operating voltage	24Vdc		48Vdc		110Vdc		220Vdc	
Rated impulse voltage	4kV		4kV		4kV		4kV	
Rated current I _N	2A		2A		2A		2A	

Temperature range	-25°C ~ +40°C							
Clearance and creepage distance	≥ 3mm							
Cross section(AWG)	AWG20~12							
Cross section	0.5mm~4mm							

General data	PA		PA		PA	
Housing material	PA		PA		PA	
Protection degree	IP20		IP20		IP20	
Pollution degree	2		2		2	
Test standards	GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000		GB/T18802.21-2004 IEC 61643-21:2000	
IEC test classification	C1、C2		C1、C2		C1、C2	
Surge voltage category	III		III		III	

Accessories	UDK-F		UDK-F		UDK-F	
Dustproof cover	UDK-F		UDK-F		UDK-F	

End cover	UDK-G		UDK-G		UDK-G	
End cover	UDK-G		UDK-G		UDK-G	

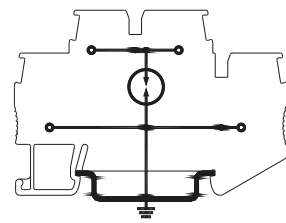
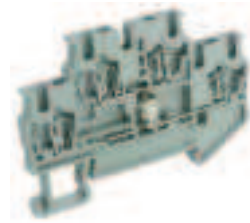
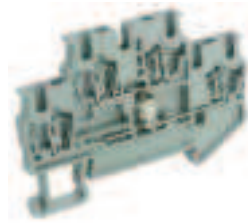
Insertion bridge	UEB 2-6		UEB 2-6		UEB 2-6	
2-pos.	UEB 2-6		UEB 2-6		UEB 2-6	
3-pos.	UEB 3-6		UEB 3-6		UEB 3-6	
10-pos.	UEB10-6		UEB10-6		UEB10-6	

Screwdriver	YB 0.6×3.5		YB 0.6×3.5		YB 0.6×3.5	
Screwdriver	YB 0.6×3.5		YB 0.6×3.5		YB 0.6×3.5	

With gas-filled surge arrester
UJ5-UQA110V

With gas-filled surge arrester
UJ5-UQA220V

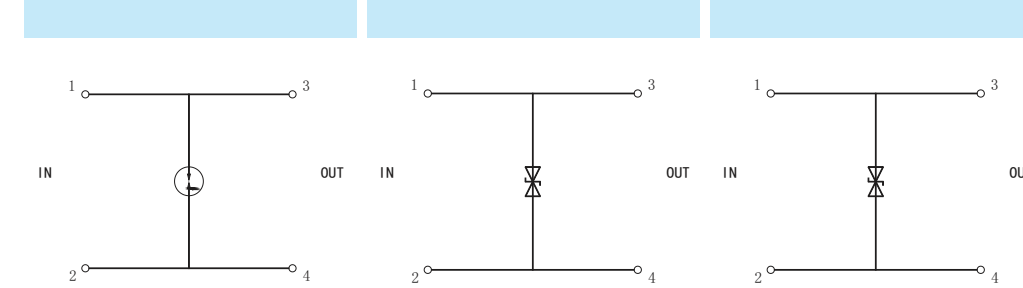
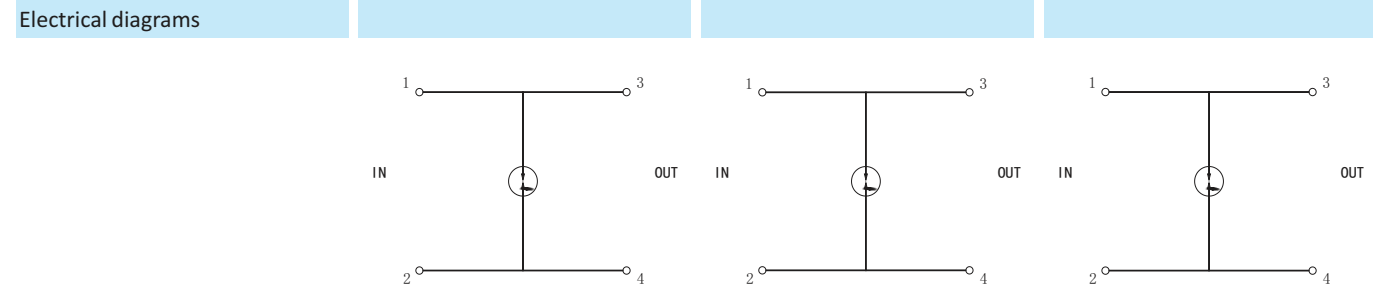
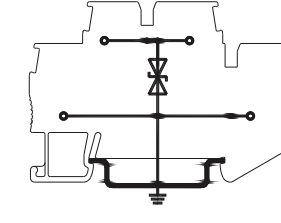
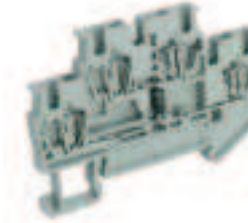
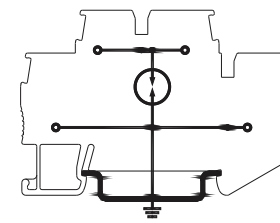
With gas-filled surge arrester
UJ5-JD-UQA110V



With gas-filled surge arrester
UJ5-JD-UQA220V

With suppressor diode
UJ5-UDB24V

With suppressor diode
UJ5-JD-UDB24V



Ordering data	Type	Order no.	Type	Order no.	Type	Order no.
	UJ5-UQA 110Vdc	421102	UJ5-UQA 220Vdc	421104	UJ5-JD-UQA 110Vdc	421106
	UJ5-UQA 110Vac	421103	UJ5-UQA 220Vac	421105	UJ5-JD-UQA 110Vac	421107

Type	Order no.	Type	Order no.	Type	Order no.
UJ5-JD-UQA 220Vdc	421108	UJ5-UDB 24Vdc	421110	UJ5-JD-UDB 24Vdc	421112
UJ5-JD-UQA 220Vac	421109	UJ5-UDB 24Vac	421111	UJ5-JD-UDB 24Vac	421113

Dimension			
Width/Thickness/Height	83.5/6.2/45.8mm	83.5/6.2/45.8mm	83.5/6.2/45.8mm

	83.5/6.2/45.8mm	83.5/6.2/45.8mm	83.5/6.2/45.8mm

Technical data	UJ5-UQA 110Vdc	UJ5-UQA 110Vac	UJ5-UQA 220Vdc	UJ5-UQA 220Vac	UJ5-JD-UQA 110Vdc	UJ5-JD-UQA 110Vac
Rated operating voltage	110Vdc	110Vac	220Vdc	220Vac	110Vdc	110Vac
Rated current I _N	20A	20A	20A	20A	20A	20A
Max. continuous operating voltage U _c DC	127V	195V	255V	399V	127V	195V
Max. continuous operating voltage U _c AC	90V	138V	180V	282V	90V	138V
Nominal discharge current I _n (10/1000us)	5KA	5KA	5KA	5KA	5KA	5KA
Residual voltage at I _n	≤700V	≤700V	≤900V	≤1200V	≤700V	≤700V
Response time t _a	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns

UJ5-UQA 220Vdc	UJ5-UQA 220Vac	UJ5-UDB 24Vdc	UJ5-UDB 24Vac	UJ5-JD-UDB 24Vdc	UJ5-JD-UDB 24Vac
220Vdc	220Vac	24Vdc	24Vdc	24Vdc	24Vdc
20A	20A	32A	32A	32A	32A
255V	399V	28Vdc	40Vdc	28Vdc	40Vdc
180V	282V	20Vac	28Vac	20Vac	28Vac
5KA	5KA	33A	23.2A	33A	23.2A
≤900V	≤1200V	45.7V	64.8	45.7V	64.8
≤100ns	≤100ns	≤1ns	≤1ns	≤1ns	≤1ns

General data			
Housing material	PA	PA	PA
Protection degree	IP20	IP20	IP20
Test standards	GB/T18802.21-2004 IEC 61643-21:2000	GB/T18802.21-2004 IEC 61643-21:2000	GB/T18802.21-2004 IEC 61643-21:2000
IEC test classification	C1、C2	C1、C2	C1、C2

	PA	PA	PA
	IP20	IP20	IP20
	GB/T18802.21-2004 IEC 61643-21:2000	GB/T18802.21-2004 IEC 61643-21:2000	GB/T18802.21-2004 IEC 61643-21:2000
	C1、C2	C3	C3

Connection data			
Cross section(AWG)	AWG20~12	AWG20~12	AWG20~12
Cross section	0.5mm~4mm	0.5mm~4mm	0.5mm~4mm

	AWG20~12	AWG20~12	AWG20~12
	0.5mm~4mm	0.5mm~4mm	0.5mm~4mm

End cover			
	UJ5-4/2-2G	422036	UJ5-4/2-2G
	UJ5-1.5~4/2-2FG	422020	UJ5-1.5~4/2-2FG

	UJ5-4/2-2G	422036	UJ5-4/2-2G
	UJ5-1.5~4/2-2FG	422020	UJ5-1.5~4/2-2FG

Insertion bridge			
2-pos.	UFBS 2-6	423011	UFBS 2-6
3-pos.	UFBS 3-6	423012	UFBS 3-6
4-pos.	UFBS 4-6	423013	UFBS 4-6
5-pos.	UFBS 5-6	423014	UFBS 5-6
10-pos.	UFBS 10-6	423015	UFBS 10-6

	UFBS 2-6	423011	UFBS 2-6
	UFBS 3-6	423012	UFBS 3-6
	UFBS 4-6	423013	UFBS 4-6
	UFBS 5-6	423014	UFBS 5-6
	UFBS 10-6	423015	UFBS 10-6

Screwdriver			
	YB 0.6×3.5	304002	YB 0.6×3.5

	YB 0.6×3.5	304002	YB 0.6×3.5