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3SU71, type 2

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by external p failure.

- Overload protection
- Short circuit protection
- Isolation
- Controlling
- Used in residential building, non-residential building, industry, energy and infrastructure



Functions

- Types 2 surge arresters
- Handling energy from distant/ indirect lightning strikes or from switching operations
- Feature lower protection level (Up)
- Recommended at the incoming of installation for locations with no exposure to direct lightning impulses

Technical specifications

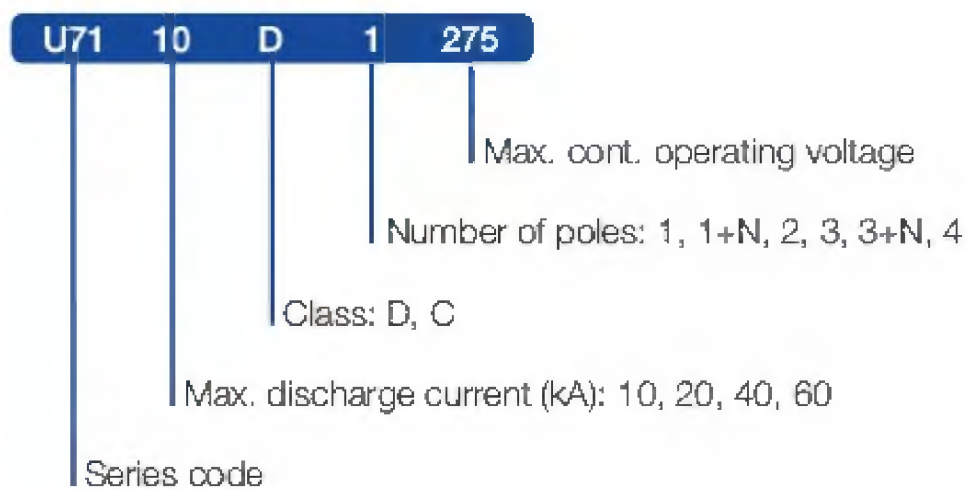
- Standard: IEC 61643-1
- Type / test class: 2 / II
- Number of poles: 1P, 1P+N, 2P, 3P, 3P+N, 4P
- Type of current: AC
- Frequency (Hz): 50/60
- Rated voltage U_n (V): 230/400
- Max. Cont. operating voltage U (V): 140, 275, 320, 385, 420
- Max. discharge current I_{max} (8/20) per pole (kA): 10, 20, 40, 60
- Norminal discharge current I_n (8/20) per pole (kA): 5, 10, 15, 20
- Voltage protection level U_p (kV): 1.0, 1.2, 1.2, 1.5
- T_{ov} (Temporary overvoltage) withstand U_T (5 s.) (V): 440
- Continuous operating current I_c (mA): < 1
- Degree of protection: IP20, with connected conductors
- Pluggable cartridge: Yes
- State indicator: Yes
- Integrated auxiliary contact: Yes
- Conductor cross-sections
- Solid and stranded (mm²): 2-35
- Finely stranded with end sleeve (mm²): 2-25
- Terminals
- Terminal tightening torque (N·m): 2.8
- Ambient temperature (°C): -5 ~ +40, max. 95 % humidity
- Storage temperature (°C): -40 ~ +75
- Connection Capacity (mm²): 1-25

Technical specification of the integrated remote signal contact

- Contact complement: 1 NO +1 NC

- Min. load: 24 V DC - 10 mA
- Max. load: 240 V AC - 1 A



Instruction of type code



Selection and ordering data

Test classification	Max. Cont. operating voltage U _c (V)	Remote signal contact	Number of poles	Max. discharge current I _{max} (8/20) per pole (kA)	Nominal discharge current I _n (8/20) per pole (kA)	Type code	Order code	
T2	140	with	1P	10	5	U71C T210 1/140	34823	
			2P	10	5	U71C T210 2/140	34828	
			3P	10	5	U71C T210 3/140	34833	
			4P	10	5	U71C T210 4/140	34838	
			1P+N	10	5	U71C T210 1N/140	38093	
			3P+N	10	5	U71C T210 3N/140	38098	
	275	with	1P	10	5	U71C T210 1/275	34824	
				20	10	U71C T220 1/275	34843	
				40	20	U71C T240 1/275	34859	
				60	30	U71C T260 1/275	34875	
				1P+N	10	5	U71C T210 1N/275	38094
				20	10	U71C T220 1N/275	38103	
			2P	40	20	U71C T240 1N/275	38111	
				60	30	U71C T260 1N/275	38119	
				10	5	U71C T210 2/275	34829	
				20	10	U71C T220 2/275	34847	
				40	20	U71C T240 2/275	34863	
				60	30	U71C T260 2/275	34879	
			3P	10	5	U71C T210 3/275	34834	
				20	10	U71C T220 3/275	34851	
				40	20	U71C T240 3/275	34867	
				60	30	U71C T260 3/275	34883	
				3P+N	10	5	U71C T210 3N/275	38099
					20	10	U71C T220 3N/275	38107
40	20	U71C T240 3N/275	38115					
60	30	U71C T260 3N/275	38123					
320	with	1P	10	5	U71C T210 1/320	34825		
			20	10	U71C T220 1/320	34844		
			40	20	U71C T240 1/320	34860		
			60	30	U71C T260 1/320	34876		
		1P+N	10	5	U71C T210 1N/320	38095		
			20	10	U71C T220 1N/320	38104		
			40	20	U71C T240 1N/320	38112		
			60	30	U71C T260 1N/320	38120		
		2P	10	5	U71C T210 2/320	34830		
			20	10	U71C T220 2/320	34848		
			40	20	U71C T240 2/320	34864		
			60	30	U71C T260 2/320	34880		
3P	10	5	U71C T210 3/320	34835				
	20	10	U71C T220 3/320	34852				
	40	20	U71C T240 3/320	34868				
	60	30	U71C T260 3/320	34884				
3P+N	10	5	U71C T210 3N/320	38100				
	20	10	U71C T220 3N/320	38108				
	40	20	U71C T240 3N/320	38116				
	60	30	U71C T260 3N/320	38124				
4P	10	5	U71C T210 4/320	34840				
	20	10	U71C T220 4/320	34856				
	40	20	U71C T240 4/320	34872				
	60	30	U71C T260 4/320	34888				

Selection and ordering data

Test classification	Max. Cont. operating voltage U _c (V)	Remote signal contact	Number of poles	Max. discharge current I _{max} (8/20) per pole (kA)	Nominal discharge current I _n (8/20) per pole (kA)	Type code		Order code	
						Type code	Order code		
	385	with	1P	10	5	U71C T210 1/385	34826		
				20	10	U71C T220 1/385	34845		
				40	20	U71C T240 1/385	34861		
				60	30	U71C T260 1/385	34877		
			1P+N	10	5	U71C T210 1N/385	38096		
				20	10	U71C T220 1N/385	38105		
				40	20	U71C T240 1N/385	38113		
				60	30	U71C T260 1N/385	38121		
			2P	10	5	U71C T210 2/385	34831		
				20	10	U71C T220 2/385	34849		
				40	20	U71C T240 2/385	34865		
				60	30	U71C T260 2/385	34881		
			3P	10	5	U71C T210 3/385	34836		
				20	10	U71C T220 3/385	34853		
				40	20	U71C T240 3/385	34869		
				60	30	U71C T260 3/385	34885		
			3P+N	10	5	U71C T210 3N/385	38101		
				20	10	U71C T220 3N/385	38109		
				40	20	U71C T240 3N/385	38117		
				60	30	U71C T260 3N/385	38125		
			4P	10	5	U71C T210 4/385	34841		
				20	10	U71C T220 4/385	34857		
				40	20	U71C T240 4/385	34873		
				60	30	U71C T260 4/385	34889		
	420	with	1P	10	5	U71C T210 1/420	34827		
				20	10	U71C T220 1/420	34846		
				40	20	U71C T240 1/420	34862		
				60	30	U71C T260 1/420	34878		
			1P+N	10	5	U71C T210 1N/420	38097		
				20	10	U71C T220 1N/420	38106		
				40	20	U71C T240 1N/420	38114		
				60	30	U71C T260 1N/420	38122		
			2P	10	5	U71C T210 2/420	34832		
				20	10	U71C T220 2/420	34850		
				40	20	U71C T240 2/420	34866		
				60	30	U71C T260 2/420	34882		
			3P	10	5	U71C T210 3/420	34837		
				20	10	U71C T220 3/420	34854		
				40	20	U71C T240 3/420	34870		
				60	30	U71C T260 3/420	34886		
			3P+N	10	5	U71C T210 3N/420	38102		
				20	10	U71C T220 3N/420	38110		
				40	20	U71C T240 3N/420	38118		
				60	30	U71C T260 3N/420	38126		
			4P	10	5	U71C T210 4/420	34842		
				20	10	U71C T220 4/420	34858		
				40	20	U71C T240 4/420	34874		
				60	30	U71C T260 4/420	34890		

PSC61, compact, type 2

- Types 2 surge arresters
- Handling energy from distant/ indirect lightning strikes or from switching operations
- Feature lower protection level
- Recommended to be installed at the incoming of installation for locations with no exposure to direct lightning impulses

Technical Specifications

- Standard: IEC 61643-1
- Type / test class: 2 / II
- Number of poles: 1P+N
- Type of current: AC
- Frequency (Hz): 50/60
- Rated voltage U_n (V): 230
- Max. Cont. operating voltage U (V): 275
- Max. discharge current I_{max} (8/20) per pole (kA): 15, 30, 40
- Norminal discharge current I_n (8/20) per pole (kA): 5, 15, 20
- Voltage protection level U_p (kV): 1.3
- Continuous operating current I_c (mA): < 1
- Degree of protection: IP20, with connected conductors
- Pluggable cartridge: Yes
- State indicator: Yes
- Conductor cross-sections, Solid and stranded and finely stranded
- with end sleeve (mm²): 2-16

3SU1, type 2

- Types 2 surge arresters
- Handling energy from distant/ indirect lightning strikes or from switching operations
- Feature lower protection level (Up)
- Recommended to be installed at the incoming of installation for locations with no exposure to direct lightning impulses
- 3SU1 DC provide protection for equipment on photovoltaic connected system, against transient overvoltages that occur on the electrical network

Technical Specifications

Type		3SU1																3SU1DC		
Standard		IEC/EN 61643-11																IEC/EN 61643-31		
Type/Test class		2 / II																2 / II		
Number of poles		1P, 2P, 3P, 4P, 1P+N, 3P+N																3P		
Type of current		AC																DC		
Frequency	Hz	50/60																-		
Max. discharge current (8/20 μ s) I_{max}	kA	10				20				40				60				40		
Nominal discharge current (8/20 μ s) I_n	kA	5				10				20				30				20		
Max. Cont. operating voltage U_c	V AC	275	320	385	440	275	320	385	440	275	320	385	440	275	320	385	440	-		
Max. Cont. operating voltage U_{opV}	V DC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	600	1000
Voltage protection level [L-PE] U_p	kV	1.3	1.5	1.8	2.3	1.3	1.5	1.8	2.3	1.3	1.5	1.8	2.3	1.5	1.7	1.8	2.4	-	-	-
Voltage protection level [(DC+/DC-)-PE] U_p	kV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	2.6	4.0
Degree of protection		IP20, with connected conductors																		
Pluggable cartridge		✓																		
State indicator		✓																		
Remote signal contact		✓																		
Conductor cross-sections																				
Solid and stranded	mm ²	2 ... 35																		
Finely stranded with end sleeve	mm ²	2 ... 25																		
Terminal tightening torque	N-m	2.8																		
Ambient temperature	°C	-25 ... +70, max. 95% humidity																		
Storage temperature	°C	-40 ... +75																		

Technical specification of the remote signal contact

- Contact type: 1 NO +1 NC
- Min. load: 24 V DC - 10 mA
- Max. load: 240 V AC - 1 A

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