

Residual-Current Operated Protective Devices

FI-/LS Miniature Circuit-Breakers, Combined Devices (RCBO)

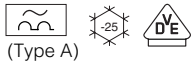


5SU1, product overview

Overview

	Number of poles	Rated current I_n A	Rated residual current I_n mA	MW	Additional components can be retrofitted
FI / LS miniature circuit-breakers 6 ... 40 A; Type A ¹⁾					
instantaneous shut-down, surge withstand strength >250 kA Rated short-circuit capacity 6 kA • Characteristic B and C					
6 000 3	2	6 10 13 16 20 25 32 40	10, 30, 300 30, 300	2	• • • • • • • •
Rated short-circuit capacity 10 kA • Characteristic B and C					
10 000 3	2	6 10 13 16 20 25 32 40	10, 30, 300 30, 300	2	• • • • • • • •

1)  = type A for AC and pulsating DC fault currents



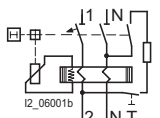
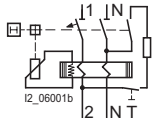
Residual-Current Operated Protective Devices FI-/LS Miniature Circuit-Breakers, Combined Devices (RCBO)

5SU1, type A, 6 ... 40 A

Application

- Personal and fire protection
 - $I_{\Delta n} \leq 30$ mA: Additional protection in the case of direct contact
 - $I_{\Delta n} \leq 300$ mA: Preventative fire protection in the case of ground fault currents
- Device standards: IEC/EN 61009-1 (VDE 0664, Part 20); IEC 61009-2-1 (VDE 0664, Part 21); IEC/EN 61543 (VDE 0664, Part 30)
- U_n 230 V; 50 to 60 Hz
- Circuit-breaker characteristic B or C
- Definition of surge withstand strength with current waveform 8/20 μ s acc. to DIN VDE 0432, Part 2

Selection and ordering data

	Rated fault current $I_{\Delta n}$ mA	Rated current I_n A	MW	MCB characteristic B		MCB characteristic C		PG	Weight 1 item kg	PS*/ P/unit Items	
				Order No.	Price	Order No.	Price				
					1 item		1 item				
Instantaneous shut-down, surge withstand strength >250 A											
	230 V AC; 50 ... 60 Hz; 2- (1 + N)-pole										
		10	6	2	5SU1 156-6KV06	5SU1 156-7KV06	011	0.250	1		
			10		5SU1 156-6KV10	5SU1 156-7KV10	011	0.250	1		
			13		5SU1 156-6KV13	5SU1 156-7KV13	011	0.250	1		
			16		5SU1 156-6KV16	5SU1 156-7KV16	011	0.250	1		
		30	6	2	5SU1 356-6KV06	5SU1 356-7KV06	011	0.250	1		
			10		5SU1 356-6KV10	5SU1 356-7KV10	011	0.250	1		
			13		5SU1 356-6KV13	5SU1 356-7KV13	011	0.250	1		
			16		5SU1 356-6KV16	5SU1 356-7KV16	011	0.250	1		
	 	20			5SU1 356-6KV20	5SU1 356-7KV20	011	0.250	1		
			25		5SU1 356-6KV25	5SU1 356-7KV25	011	0.250	1		
			32		5SU1 356-6KV32	5SU1 356-7KV32	011	0.250	1		
			40		5SU1 356-6KV40	5SU1 356-7KV40	011	0.250	1		
		300	6	2	5SU1 656-6KV06	5SU1 656-7KV06	011	0.250	1		
			10		5SU1 656-6KV10	5SU1 656-7KV10	011	0.250	1		
			13		5SU1 656-6KV13	5SU1 656-7KV13	011	0.250	1		
		16		5SU1 656-6KV16	5SU1 656-7KV16	011	0.250	1			
		20		5SU1 656-6KV20	5SU1 656-7KV20	011	0.250	1			
		25		5SU1 656-6KV25	5SU1 656-7KV25	011	0.250	1			
		32		5SU1 656-6KV32	5SU1 656-7KV32	011	0.250	1			
		40		5SU1 656-6KV40	5SU1 656-7KV40	011	0.250	1			
		230 V AC; 50 ... 60 Hz; 2- (1 + N)-pole									
			10	6	2	5SU1 154-6KV06	5SU1 154-7KV06	011	0.250	1	
				10		5SU1 154-6KV10	5SU1 154-7KV10	011	0.250	1	
				13		5SU1 154-6KV13	5SU1 154-7KV13	011	0.250	1	
				16		5SU1 154-6KV16	5SU1 154-7KV16	011	0.250	1	
			30	6	2	5SU1 354-6KV06	5SU1 354-7KV06	011	0.250	1	
				10		5SU1 354-6KV10	5SU1 354-7KV10	011	0.250	1	
				13		5SU1 354-6KV13	5SU1 354-7KV13	011	0.250	1	
			16		5SU1 354-6KV16	5SU1 354-7KV16	011	0.250	1		
	 	20			5SU1 354-6KV20	5SU1 354-7KV20	011	0.250	1		
			25		5SU1 354-6KV25	5SU1 354-7KV25	011	0.250	1		
			32		5SU1 354-6KV32	5SU1 354-7KV32	011	0.250	1		
			40		5SU1 354-6KV40	5SU1 354-7KV40	011	0.250	1		
		300	6	2	5SU1 654-6KV06	5SU1 654-7KV06	011	0.250	1		
			10		5SU1 654-6KV10	5SU1 654-7KV10	011	0.250	1		
			13		5SU1 654-6KV13	5SU1 654-7KV13	011	0.250	1		
		16		5SU1 654-6KV16	5SU1 654-7KV16	011	0.250	1			
		20		5SU1 654-6KV20	5SU1 654-7KV20	011	0.250	1			
		25		5SU1 654-6KV25	5SU1 654-7KV25	011	0.250	1			
		32		5SU1 654-6KV32	5SU1 654-7KV32	011	0.250	1			
		40		5SU1 654-6KV40	5SU1 654-7KV40	011	0.250	1			

* You can order this quantity or a multiple thereof.

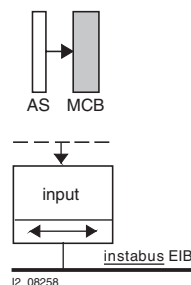
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FI-/LS Miniature Circuit-Breakers, Combined Devices (RCBO)

Auxiliary current/fault signal contacts for 5SU1

Benefits

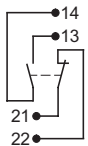
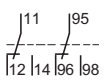
- An auxiliary switch or fault signal contact can be fitted to the left-hand side of the FI/miniature circuit-breaker housing by the customer
- Mounting with factory-fitted screws
- Can be connected to *instabus* KNX/EIB and AS-Interface bus or PROFIBUS through binary inputs



Technical data

		5ST3 018-0KV, 5ST3 028-0KV
Terminals		
• Conductor cross section	mm ²	0.5 ... 2.5
• Recommended tightening torque	Nm	0.6 ... 0.8
Min. contact load		50 mA/24 V
Max. contact load		
• 230 V AC, AC-15	A	2
• 230 V AC, AC-13	A	3
• 110 V DC, DC-12	A	0.5

Selection and ordering data

	Version	MW	Order No.	Price	PG	Weight 1 item	PS*/ P.unit
				1 item		kg	Items
Auxiliary switch (AS) for FI / miniature circuit-breakers (RCBO) 5SU1 ¹⁾							
	Auxiliary switch (AS)	1 NO + 1 NC	0.5	5ST3 018-0KV	027	0.037	1
							
Fault signal contact (FC) for FI / miniature circuit-breakers (RCBO) 5SU1 ¹⁾							
	Fault signal contact (FC) for FI / miniature circuit-breakers (RCBO) 5SU1	2 W	0.5	5ST3 028-0KV	027	0.045	1
							

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Shunt trips for 5SU1

Benefits

- An auxiliary switch can be fitted to the left-hand side of the FI / miniature circuit-breaker housing by the customer
- An additional auxiliary circuit switch or fault signal contact to the shunt trip can be mounted on the left side

Application

- Remote tripping of the FI / miniature circuit-breaker

Technical data

5ST3 037-0KV, 5ST3 038-0KV			
Terminals			
• Conductor cross section	mm ²	1 ... 25	
• Recommended tightening torque	Nm	2.5 ... 3	

Selection and ordering data

		Operating voltage range	MW	Order No.	Price 1 item	PG	Weight 1 item kg	PS*/ P.unit Items
Shunt trip (ST) for FI / miniature circuit-breaker (RCBO) 5SU1 ¹⁾								
	Shunt trips (ST) 	12 ... 110 V AC/ 12 ... 60 V DC	1	5ST3 037-0KV		027	0.095	1
		110 ... 415 V AC/ 110 ... 220 V DC		5ST3 038-0KV		027	0.095	1

1) Also suitable for fitting to miniature circuit-breakers 5SY6KV.

* You can order this quantity or a multiple thereof.