

# Control Circuit Protection Supplementary Protection

## Additional components for 5SY4, 5SY5 and 5SP4 supplementary protectors

### Features

- UL Recognized to UL 1077 (5ST3 010, 011, 012, 020, 021 & 022)
- Individual retrofitting possible
- Assembly via factory-fitted clips
- Short-circuit protection via supplementary protectors of characteristic B or C and  $I_n = 6\text{ A}$  or  $6\text{ A gL}$  fuses
- Low output versions in accordance with EN 61131-2 for controlling PLCs

### Design

#### Auxiliary switches (AS) and fault signal contacts (FC) (5ST30.0, 5ST30.1, 5ST30.2)

- Min. contact load: 50 mA, 24 V
- Max. contact load:  
NO contacts:  
2 A, 400 V AC, AC-14  
6 A, 230 V AC, AC-14  
1 A, 220 V DC, DC-13  
1 A, 110 V DC, DC-13  
3 A, 60 V DC, DC-13  
6 A, 24 V DC, DC-13  
NC contacts:  
2 A, 400 V AC, AC-13  
6 A, 230 V AC, AC-13  
1 A, 220 V DC, DC-13  
1 A, 110 V DC, DC-13  
3 A, 60 V DC, DC-13  
6 A, 24 V DC, DC-13
- Connectable to *instabus EIB* and AS-Interface bus via binary inputs

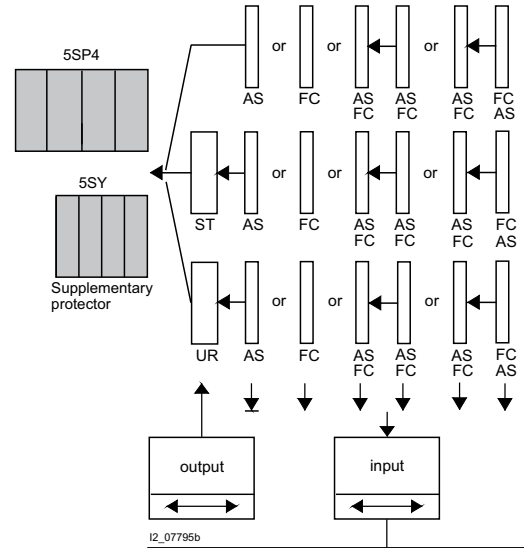
#### Auxiliary switches (AS) with low output (5ST3013, 5ST3014, 5ST3015)

- Area of application: 1 mA / 5 V DC to 50 mA / 30 V DC










### Application

Indication of the supplementary protectors' switching state:

- AS: ON/OFF
- FC: tripped



### Selection and ordering data

	MW	Order No.	List Price \$ 1 item	Price group	Weight 1 item kg
	<b>Auxiliary switches (AS) for 5SY4, 5SY5, 5SP4 supplementary protectors</b>				
		1 NO + 1 NC, 0.5	<b>5ST3 010</b> <b>5ST3 013</b>		0.050
		1 NO + 1 NC, low output <sup>1)</sup>			
		2 NO	<b>5ST3 011</b> <b>5ST3 014</b>		
		2 NO, low output <sup>1)</sup>			
	<b>Fault signal contacts (FC) for 5SY4, 5SY5, 5SP4 supplementary protectors</b>				
		1 NO + 1 NC, 0.5	<b>5ST3 020</b>		0.050
		2 NO	<b>5ST3 021</b>		
		2 NC	<b>5ST3 022</b>		

<sup>1)</sup>Not UL Rated.

# Control Circuit Protection Supplementary Protection

## Additional components for 5SY4, 5SY5 and 5SP4 supplementary protectors

### Features


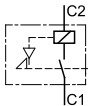
#### Shunt trips

- Response limits acc. to DIN VDE 0660 Part 100, 7.2.1.4
- Suitable for voltages: 110 to 415 V AC, 110 V AC, 24 to 48 V AC/DC

### Application

Remote tripping of the supplementary protectors

### Selection and ordering data

		MW	Order No.	List Price \$	Price group	Weight 1 item
				1 item		kg
	<b>Shunt trips (ST) for 5SY4, 5SY5, 5SP4 supplementary protectors 1)</b> 	110-415 V AC 1	<b>5ST3 030</b>			0.098
		24-48 V AC/DC 1	<b>5ST3 031</b>			

### Features


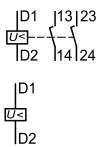
#### Undervoltage releases

- Response limits acc. to DIN VDE 0660 Part 100, 7.2.1.3
- Suitable for voltages: 230 V AC, 110 V DC, 24 V DC
- Connectable to *instabus EIB* and AS-Interface bus via binary inputs.

### Application

- Applicable as remote trip in an EMERGENCY-OFF loop
- Assures disconnection of the control circuit acc. to EN 60 204
- In cases of interrupted or insufficient voltage, the undervoltage release trips the supplementary protector or prevents it from switching on.

### Selection and ordering data

		MW	Order No.	List Price \$	Price group	Weight 1 item
				1 item		kg
	<b>Undervoltage releases (UR) for 5SY4, 5SY5, 5SP4 supplementary protectors 1)</b> 	230 V AC 1	<b>5ST3 040</b>			0.115
		110 V DC 1	<b>5ST3 041</b>			
		24 V DC 1	<b>5ST3 042</b>			
		230 V AC 1	<b>5ST3 043</b>			
		110 V DC 1	<b>5ST3 044</b>			
		24 V DC 1	<b>5ST3 045</b>			

1) Not UL/CSA Rated.