

Supplementary Protection

Additional components for 5SY4, 5SY5, 5SY6 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 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

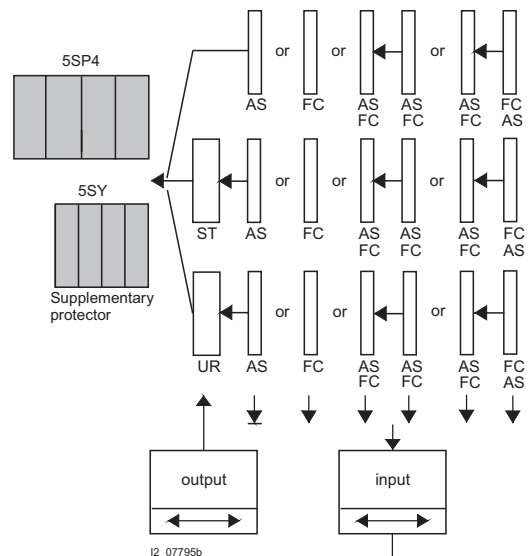
Auxiliary switches (AS) with low output
(5ST3013, 5ST3014, 5ST3015)

- Area of application: 1mA / 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
	Auxiliary switches (AS) for 5SY4, 5SY5, 5SY6 and 5SP4 supplementary protectors				
	13 21 22 14	1 NO + 1 NC, 0.5	5ST3 010 5ST3 013		0.050
	13 23 24 14	2 NO	5ST3 011 5ST3 014		
	11 21 22 12	2 NC	5ST3 012 5ST3 015		
	13 21 22 14	1 NO + 1 NC, low output ¹⁾			
	13 23 24 14	2 NO, low output ¹⁾			
	Fault signal contacts (FC) for 5SY4, 5SY5, 5SY6 and 5SP4 supplementary protectors				
	13 21 22 14	1 NO + 1 NC, 0.5	5ST3 020		0.050
	13 23 24 14	2 NO	5ST3 021		
	11 21 22 12	2 NC	5ST3 022		

¹⁾Not UL Rated.

Supplementary Protection Accessories

Accessories for 5SY and 5SP supplementary protectors

Features

- For use with 5SY and 5SP supplementary protectors
- UL and CSA Certified to UL 508

Selection and ordering data



	Length	For use with 5SY			For use with 5SP ³⁾		
		Order No.	List Price \$ 1 item	Weight 1 item kg	Order No.	List Price \$ 1 item	Weight 1 item kg
	mm		1 item	kg		1 item	kg
Busbars²⁾ without end caps (can be cut)							
1-pole	1000	5ST3 701-0HG		0.330	5ST3 701-2HG		0.450
1-pole + AS or FC ¹⁾		5ST3 703-0HG			-		
2-pole	1000	5ST3 705-0HG		0.508	5ST3 705-2HG		0.690
2-pole + AS or FC ¹⁾		5ST3 707-0HG			-		
3-pole	1000	5ST3 710-0HG		0.800	5ST3 710-2HG		1.090
3-pole + AS or FC ¹⁾		5ST3 712-0HG			-		
Busbar End Caps							
1-pole		5ST3 748-0HG		0.001	5ST3 748-0HG		0.001
2- & 3- pole		5ST3 750-0HG			5ST3 750-0HG		
Connection terminals							
Infeed - MCBs	6 - 35 mm ² 10 - 1/0 AWG	5ST3 770-0HG		0.035	5ST3 770-0HG		0.035
Infeed - busbars	1.5 - 50 mm ² 14 - 1 AWG	5ST3 770-1HG		0.016	5ST3 770-1HG		0.016
Touch protection covers²⁾							
5 x 1 pin		5ST3 655-0HG		0.003	5ST3 655-0HG		0.003

1) Used with appropriate pole supplementary protector + 1 auxiliary switch (AS) or 1 fault signal contact (FC).

2) Always cover all exposed terminals with touch protection covers 5ST3655-0HG.

3) Maximum 100 A for infeed at the start of a busbar.

Technical Data

		5ST3 7...-0HG	5ST3 7...-2HG	5ST3 770-0HG	5ST3 770-1HG
Standards		UL 508, CSA C22.2 No. 14-M 95,			
Certifications		UL 508 File No. E328403 CSA			
Operational voltage					
• IEC	V AC	690			
• UL 508	V AC	600			
Rated current	A	-	-	115	
Maximum busbar current I_g per phase					
• Infeed at the start of the busbar	A	80	100	-	-
• Infeed at the center of the busbar	A	160	200	-	-
Busbar cross-section	mm ² Cu	18	25	-	-
Conductor cross-sections					
	AWG	-	-	10-1/0	14-1
	mm ²	-	-	6-35	1.5-50
Terminals - terminal tightening torque					
	Nm	-	-	5	3.5
	lbs/in	-	-	50	35