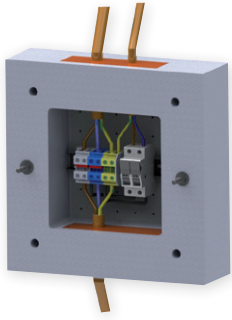


# RISER JUNCTION BOX in E30

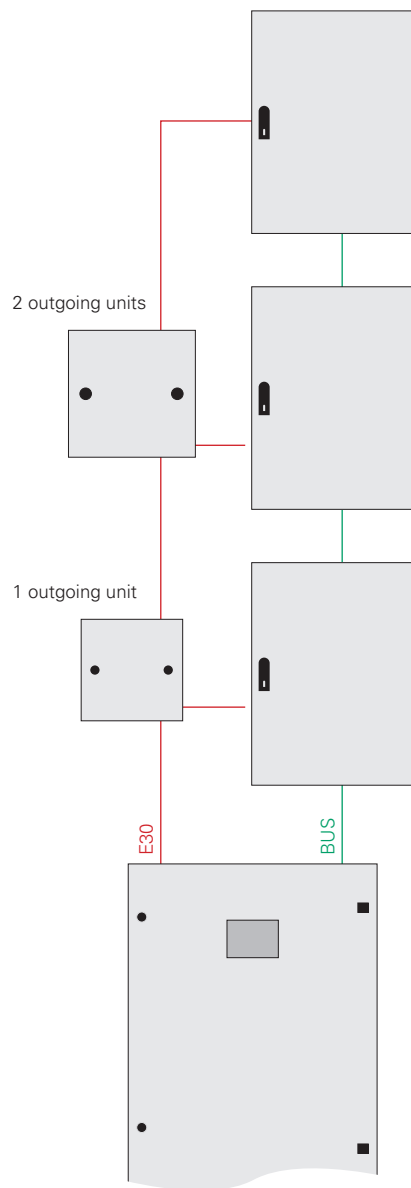


Whenever star-shaped installation of the supply cable between the CPS system and its substations is not possible or is uneconomical, a so-called riser installation can be selected.

To install this form of installation correctly according to the standards, the tapping of the supply cable (E30) must be protected with a backup fuse in a jumper ring with identical maintenance of integrity.

On the following pages you will find a selection of standard riser junction boxes in E30 and their versions.

## WIRING EXAMPLE:



# RISER JUNCTION BOX project planning

## RISER DISTRIBUTION

Max. power of the riser [W]	Fusing in the central unit [A]	SVx.350.350.10x SVx.450.450.20x				SVx.350.350.11x SVx.450.450.21x			SVx.350.350.12x SVx.450.450.22x <b>ATTENTION: Lay 5 x 50 mm<sup>2</sup></b>	
		4 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>	16 mm <sup>2</sup>	25 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	70 mm <sup>2</sup>	95 mm <sup>2</sup>
<b>20 % – ratio of hot to cold zone*</b> max. E30 cable length [m]										
1000	16	59	89	148	237	370	518	740	1036	1406
2000	16	30	44	74	118	185	259	370	518	703
3000	25	20	30	49	79	123	173	247	345	469
4000	35	-	22	37	59	93	130	185	259	352
6000	50	-	-	25	39	62	86	123	173	234
8000	63	-	-	-	30	46	65	93	130	176
10000	80	-	-	-	-	37	52	74	104	141
12000	80	-	-	-	-	31	43	62	86	117
15000	100	-	-	-	-	25	35	49	69	94
17000	125	-	-	-	-	22	30	44	61	83
<b>40 % – ratio of hot to cold zone*</b> max. E30 cable length [m]										
1000	16	48	72	119	191	299	418	597	836	1135
2000	16	24	36	60	96	149	209	299	518	567
3000	25	16	24	40	64	100	139	199	345	378
4000	35	-	18	30	48	75	105	149	259	284
6000	50	-	-	20	32	50	70	100	173	189
8000	63	-	-	-	24	37	52	75	130	142
10000	80	-	-	-	-	30	42	60	104	113
12000	80	-	-	-	-	25	35	50	86	95
15000	100	-	-	-	-	20	28	40	69	76
17000	125	-	-	-	-	18	25	35	61	67
<b>60 % – ratio of hot to cold zone*</b> max. E30 cable length [m]										
1000	16	40	60	100	160	250	351	501	701	951
2000	16	20	30	50	80	125	175	250	351	476
3000	25	13	20	33	53	83	117	167	234	317
4000	35	-	15	25	40	63	88	125	175	238
6000	50	-	-	17	27	42	58	83	117	159
8000	63	-	-	-	20	31	44	63	88	119
10000	80	-	-	-	-	25	35	50	70	95
12000	80	-	-	-	-	21	29	42	58	79
15000	100	-	-	-	-	17	23	33	47	63
17000	125	-	-	-	-	15	21	29	41	56

Assumptions: AC/DC 1 conductor; cos(phi) = 0.9; 25° Celsius; voltage drop = 1.5 %; U = 216 V; type of laying = C; fuse load: 90%

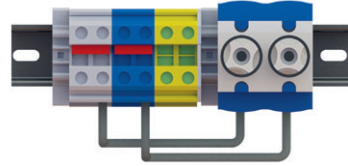
\* The percentage of "hot to cold zone" is calculated from the ratio of the total length of the cable to the cable length that crosses the largest fire compartment/area subdivided in fire protection terms.

# RISER JUNCTION BOX Built-in units

## E30 STANDARD TYPES WITH ONE OUTGOING UNIT

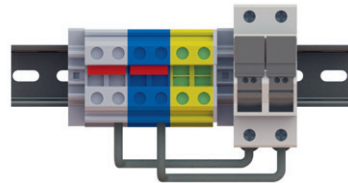
### Type: SV3.350.350.100-00

Fuse element: max. 63 A (D02)  
Riser: max. 3 x 16 mm<sup>2</sup>  
Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>  
Dimensions: 350 x 350 x 140 mm (H x W x D)



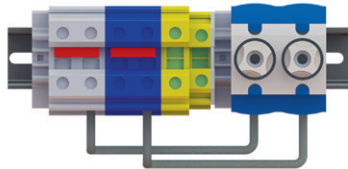
### Type: SV3.350.350.101-00

Fuse element: max. 32 A (IEC 10 x 38)  
Riser: max. 3 x 16 mm<sup>2</sup>  
Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>  
Dimensions: 350 x 350 x 140 mm (H x W x D)



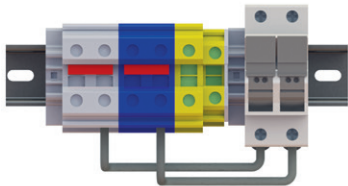
### Type: SV3.350.350.110-00

Fuse element: max. 63 A (D02)  
Riser: max. 3 x 50 mm<sup>2</sup>  
Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>  
Dimensions: 350 x 350 x 140 mm (H x W x D)



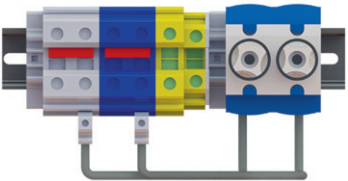
### Type: SV3.350.350.111-00

Fuse element: max. 32 A (IEC 10 x 38)  
Riser: max. 3 x 50 mm<sup>2</sup>  
Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>  
Dimensions: 350 x 350 x 140 mm (H x W x D)



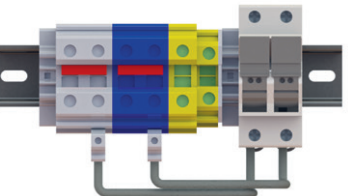
### Type: SV3.350.350.120-00

Fuse element: max. 63 A (D02)  
Riser: max. 5 x 50 mm<sup>2</sup>  
Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>  
Dimensions: 350 x 350 x 140 mm (H x W x D)



### Type: SV3.350.350.121-00

Fuse element: max. 32 A (IEC 10 x 38)  
Riser: max. 5 x 50 mm<sup>2</sup>  
Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>  
Dimensions: 350 x 350 x 140 mm (H x W x D)



## E30 STANDARD TYPES WITH TWO OUTGOING UNITS

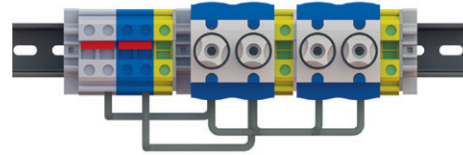
**Type: SV3.450.450.200-00**

Fuse element: max. 63 A (D02)

Riser: max. 3 x 16 mm<sup>2</sup>

Incoming and outgoing terminals: max. 3 x 16mm<sup>2</sup>

Dimensions: 450 x 450 x 140 mm (H x W x D)



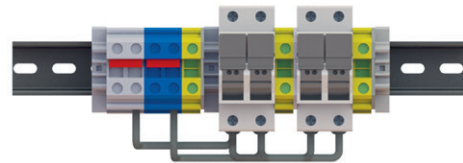
**Type: SV3.450.450.201-00**

Fuse element: max. 32 A (IEC 10 x 38)

Riser: max. 3 x 16 mm<sup>2</sup>

Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>

Dimensions: 450 x 450 x 140 mm (H x W x D)



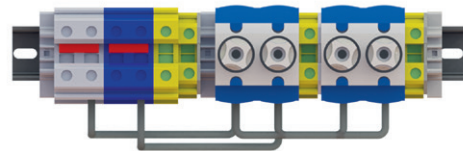
**Type: SV3.450.450.210-00**

Fuse element: max. 63 A (D02)

Riser: max. 3 x 50 mm<sup>2</sup>

Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>

Dimensions: 450 x 450 x 140 mm (H x W x D)



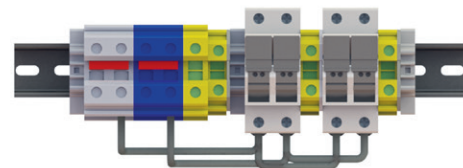
**Type: SV3.450.450.211-00**

Fuse element: max. 32 A (IEC 10 x 38)

Riser: max. 3 x 50 mm<sup>2</sup>

Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>

Dimensions: 450 x 450 x 140 mm (H x W x D)



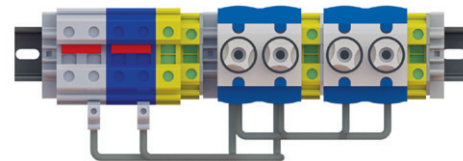
**Type: SV3.450.450.220-00**

Fuse element: max. 63 A (D02)

Riser: max. 5 x 50 mm<sup>2</sup>

Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>

Dimensions: 450 x 450 x 140 mm (H x W x D)



**Type: SV3.450.450.221-00**

Fuse element: max. 32 A (IEC 10 x 38)

Riser: max. 5 x 50 mm<sup>2</sup>

Incoming and outgoing terminals: max. 3 x 16 mm<sup>2</sup>

Dimensions: 450 x 450 x 140 mm (H x W x D)

