

## Switching devices – Soft starters and solid-state switching devices


Solid-state switching devices for resistive/inductive loads

Solid-state relays

### SIRIUS 3RF20 solid-state relays, 1-phase, 45 mm

#### Selection and ordering data

##### 1-phase solid-state relays (without heat sink) with a width of 45 mm

Type current/ performance capacity <sup>1)</sup>	Rated control supply voltage $U_s$	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
A	V	d	Article No.	Price per PU		
<b>Zero-point switching, rated operational voltage <math>U_e</math> 24 ... 230 V AC</b>						
	20	24 DC	2	3RF2020-1AA02	1	1 unit 41C
	30		2	3RF2030-1AA02	1	1 unit 41C
	50		2	3RF2050-1AA02	1	1 unit 41C
	70 <sup>2)</sup>		2	3RF2070-1AA02	1	1 unit 41C
	90 <sup>2)</sup>		2	3RF2090-1AA02	1	1 unit 41C
3RF2020-1AA02	20	110 ... 230 AC	2	3RF2020-1AA22	1	1 unit 41C
	30		2	3RF2030-1AA22	1	1 unit 41C
	50		5	3RF2050-1AA22	1	1 unit 41C
	70 <sup>2)</sup>		5	3RF2070-1AA22	1	1 unit 41C
	90 <sup>2)</sup>		5	3RF2090-1AA22	1	1 unit 41C
3RF2020-1AA02	20	4 ... 30 DC	5	3RF2020-1AA42	1	1 unit 41C
	30		5	3RF2030-1AA42	1	1 unit 41C
<b>Zero-point switching, rated operational voltage <math>U_e</math> 48 ... 460 V AC</b>						
	20	24 DC	2	3RF2020-1AA04	1	1 unit 41C
	30		2	3RF2030-1AA04	1	1 unit 41C
	50		2	3RF2050-1AA04	1	1 unit 41C
	70 <sup>2)</sup>		2	3RF2070-1AA04	1	1 unit 41C
	90 <sup>2)</sup>		2	3RF2090-1AA04	1	1 unit 41C
	20	110 ... 230 AC	5	3RF2020-1AA24	1	1 unit 41C
	30		5	3RF2030-1AA24	1	1 unit 41C
	50		5	3RF2050-1AA24	1	1 unit 41C
	70 <sup>2)</sup>		5	3RF2070-1AA24	1	1 unit 41C
	90 <sup>2)</sup>		5	3RF2090-1AA24	1	1 unit 41C
50	4 ... 30 DC	2	3RF2050-1AA44	1	1 unit 41C	
<b>Zero-point switching, rated operational voltage <math>U_e</math> 48 ... 600 V AC</b>						
	20	4 ... 30 DC	5	3RF2020-1AA45	1	1 unit 41C
	50		5	3RF2050-1AA45	1	1 unit 41C
	70 <sup>2)</sup>		2	3RF2070-1AA45	1	1 unit 41C
	90 <sup>2)</sup>		5	3RF2090-1AA45	1	1 unit 41C
<b>Zero-point switching · Blocking voltage 1 600 V, rated operational voltage <math>U_e</math> 48 ... 600 V AC</b>						
	30	24 DC	5	3RF2030-1AA06	1	1 unit 41C
	50		5	3RF2050-1AA06	1	1 unit 41C
	70 <sup>2)</sup>		5	3RF2070-1AA06	1	1 unit 41C
	90 <sup>2)</sup>		5	3RF2090-1AA06	1	1 unit 41C
	30	110 ... 230 AC	5	3RF2030-1AA26	1	1 unit 41C
	50		5	3RF2050-1AA26	1	1 unit 41C
	70 <sup>2)</sup>		5	3RF2070-1AA26	1	1 unit 41C
	90 <sup>2)</sup>		5	3RF2090-1AA26	1	1 unit 41C
<b>Instantaneous switching, rated operational voltage <math>U_e</math> 48 ... 460 V AC</b>						
30	24 DC	5	3RF2030-1BA04	1	1 unit 41C	

<sup>1)</sup> The type current provides information about the performance capacity of the solid-state relay. The actual permitted rated operational current  $I_e$  can be smaller depending on the connection method and cooling conditions.

<sup>2)</sup> Please note that this version with an M4 screw connection can only be used for a rated current of up to approx. 50 A and a conductor cross-section of 10 mm<sup>2</sup>.

For accessories, see page 6/125.