

# Protection Equipment

## Introduction

### Overview



Type	3RV20	3RV21	3RV23	3RV24	3RV27	3RV28
<b>SIRIUS 3RV2 motor starter protectors up to 40 A</b>						
<b>Applications</b>						
System protection	✓ <sup>1)</sup>	✓ <sup>1)</sup>	--	--	✓	✓
Motor protection	✓	--	--	--	--	--
Motor protection with overload relay function	--	✓	--	--	--	--
Starter combinations	--	--	✓	--	--	--
Transformer protection	--	--	--	✓	✓	✓
<b>Size</b>	S00, S0	S00, S0	S00, S0	S00, S0	S00	S00
<b>Rated current <math>I_n</math></b>						
• Size S00	A up to 16	up to 16	up to 16	up to 16	up to 15	up to 15
• Size S0	A up to 40	up to 32	up to 40	up to 25	--	--
<b>Rated operational voltage <math>U_e</math> according to IEC</b>	V 690 AC <sup>2)</sup>	690 AC <sup>2)</sup>	690 AC <sup>2)</sup>	690 AC <sup>2)</sup>	690 AC	690 AC
<b>Rated frequency</b>	Hz 50/60	50/60	50/60	50/60	50/60	50/60
<b>Trip class</b>	CLASS 10	CLASS 10	--	CLASS 10	--	--
<b>Thermal overload releases</b>						
A	0.11 ... 0.16 up to 34 ... 40	0.11 ... 0.16 up to 27 ... 32	Without <sup>3)</sup>	0.11 ... 0.16 up to 20 ... 25	0.16 ... 15 non-adjustable	0.16 ... 15 non-adjustable
<b>Electronic release</b>						
A multiple of the rated current	13 times	13 times	13 times	20 times	13 times	20 times
<b>Short-circuit breaking capacity <math>I_{cu}</math> at 400 V AC</b>	kA 20/55/100	55/100	20/55/100	55/100	4)	4)
<b>Pages</b>	7/14, 7/15	7/16	7/17	7/18	7/19	7/20

<b>Accessories</b>						
<b>For sizes</b>	S00	S0	S00	S0	S00	S0
Auxiliary switches	✓	✓	✓	✓	✓	✓
Signaling switches	✓	✓	✓	✓	✓	--
Undervoltage releases	✓	✓	--	--	✓	✓
Shunt releases	✓	✓	--	--	✓	✓
Isolator modules	✓	✓	✓	✓	✓	--
Insulated three-phase busbar system	✓	✓	--	--	✓	--
Busbar adapters	✓	✓	✓	✓	✓	--
Door-coupling rotary operating mechanisms	✓	✓	✓	✓	✓	✓
Link modules	✓	✓	✓	✓	✓	--
Enclosures for surface mounting	✓	✓	✓	✓	✓	--
Enclosures for flush mounting	✓	✓	✓	✓	✓	--
Front plates	✓	✓	✓	✓	✓	--
Infeed system	✓	✓	--	--	✓	--
Terminal covers for ring terminal lug connections	✓ <sup>5)</sup>	✓ <sup>5)</sup>	--	--	--	--
Sealable scale covers for setting knobs	✓	✓	✓	✓	✓	--
<b>Pages</b>	7/21 ... 7/37					

✓ Has this function or can use this accessory

-- Does not have this function or cannot use this accessory

<sup>1)</sup> For symmetrical loading of the three phases.

<sup>2)</sup> With molded-plastic enclosure 500 V AC. For DC applications see "Technical Specifications" → "DC Short-Circuit Breaking Capacity" on page 7/10.

<sup>3)</sup> For overload protection of the motors, appropriate overload relays must be used.

<sup>4)</sup> According to UL 489 at 480 Y/277 V AC: 65 kA.

<sup>5)</sup> Terminal covers are available for 3RV20 motor starter protectors with ring terminal lug connection to ensure finger-safety.