

Protection Equipment

Introduction

Overview



Type	3RV20	3RV21	3RV23	3RV24	3RV27	3RV28
SIRIUS 3RV2 motor starter protectors/circuit breakers up to 40 A						
Applications						
• System protection	✓ ¹⁾	✓ ¹⁾	--	--	✓	✓
• Motor protection	✓	--	--	--	--	--
• Motor protection with overload relay function	--	✓	--	--	--	--
• Starter combinations	--	--	✓	--	--	--
• Transformer protection	--	--	--	✓	✓	✓
Size	S00, S0	S00, S0	S00, S0	S00, S0	S00, S0	S00, S0
Rated current I_n						
• 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	up to 22	up to 22
Rated operational voltage U_e according to IEC	V 690 AC ²⁾	690 AC ²⁾	690 AC ²⁾	690 AC ²⁾	690 AC	690 AC
Rated frequency	Hz 50/60	50/60	50/60	50/60	50/60	50/60
Trip class	CLASS 10	CLASS 10	--	CLASS 10	--	--
Thermal overload releases	A 0.11 ... 0.16 to 34 ... 40	0.11 ... 0.16 to 27 ... 32	Without ³⁾	0.11 ... 0.16 to 20 ... 25	0.16 ... 22 non-adjustable	0.16 ... 22 non-adjustable
Electronic release	A multiple of the rated current	13 times	13 times	20 times	13 times	20 times
Short-circuit breaking capacity I_{cu} at 400 V AC	kA 20/55/100	55/100	20/55/100	55/100	4)	4)

Accessories						
For sizes	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	✓ ⁵⁾	✓ ⁵⁾	--	--	--	--
Sealable scale covers for setting knobs	✓	✓	✓	✓	--	--

✓ Has this function or can use this accessory

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

³⁾ For overload protection of the motors, appropriate overload relays must be used.⁴⁾ According to UL 489 at 480 V/277 V AC: 65 kA or 50 kA.⁵⁾ Terminal covers are available for 3RV20 motor starter protectors for motor protection with ring terminal lug connection to ensure finger-safety.¹⁾ For symmetrical loading of the three phases.

²⁾ With 500 V AC molded-plastic enclosure. For DC applications see "SIRIUS Innovations – SIRIUS 3RV2 Motor Starter Protectors" Manual, <http://support.automation.siemens.com/WW/view/en/60279172> → "Technical specifications" → "Direct current short-circuit breaking capacity".