

Protection Equipment

Motor Starter Protectors/Circuit Breakers

Introduction



Type	3RV10	3RV11	3RV13	3RV16	3RV16	3RV17
SIRIUS 3RV1 motor starter protectors/circuit breakers up to 100 A						
Applications						
• System protection	✓ ¹⁾	✓ ¹⁾	--	--	--	✓
• Motor protection	✓	--	--	--	--	--
• Motor protection with overload relay function	--	✓	--	--	--	--
• Starter combinations	--	--	✓	--	--	--
• Transformer protection	--	--	--	--	--	✓
• Fuse monitoring	--	--	--	✓	--	--
• Voltage transformer circuit breakers for distance protection	--	--	--	--	✓	--
Size	S3	S3	S3	S00	S00	S3
Rated current I_n						
• Size S00	A --	--	--	0.2	Up to 3	--
• Size S3	A Up to 100	Up to 100	Up to 100	--	--	Up to 70
Rated operational voltage U_e according to IEC	V 690 AC ²⁾	690 AC ²⁾	690 AC ²⁾	690 AC ²⁾	400 AC	690 AC
Rated frequency	Hz 50/60	50/60	50/60	50/60	16 ² / ₃ ... 60	50/60
Trip class	CLASS 10, 20	CLASS 10	--	--	--	--
Thermal overload releases						
A	11 ... 16 up to	11 ... 16 up to	Without ³⁾	0.2	1.4 ... 3	10 ... 70
A	80 ... 100	80 ... 100				non-adjustable
Electronic release						
A multiple of the rated current	13 times	13 times	13 times	6 times	4 ... 7 times	13 times
Short-circuit breaking capacity I_{cu} at 400 V AC						
kA	50/100	50/100	50/100	100	50	4)
Pages	7/63	7/64	7/65	7/66	7/68	7/67
Accessories						
For sizes						
Auxiliary switches	✓	✓	✓	✓	✓	✓ ⁵⁾
Signaling switches	✓	✓	✓	--	--	--
Undervoltage releases	✓	--	✓	--	--	✓
Shunt releases	✓	--	✓	--	--	✓
Busbar adapters	✓	✓	✓	--	--	--
Door-coupling rotary operating mechanisms	✓	✓	✓	--	--	✓
Remote motorized operating mechanisms	✓	✓	✓	--	--	--
Link modules	✓	✓	✓	--	--	--
Front plates	✓	✓	✓	--	--	--
Pages	7/69 ... 7/78					

✓ Has this function or can use this accessory

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

¹⁾ For symmetrical loading of the three phases.²⁾ With molded-plastic enclosure 500 V AC.³⁾ For overload protection of the motors, appropriate overload relays must be used.⁴⁾ Acc. to UL 489

- At 480 Y/277 V AC: 65 kA

- At 480 V AC: 65 kA (10 A to 30 A)

⁵⁾ Only lateral auxiliary switches can be fitted.