

Overview



Type	3RV10	3RV11	3RV13	3RV14	3RV16	3RV16	3RV17	3RV18
SIRIUS 3RV1 motor starter protectors 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	S00, S0, S2, S3	S0, S2, S3	S0, S2, S3	S0, S2	S00	S00	S0, S3	S0
Rated current I_n								
• Size S00	A Up to 12	--	--	--	0.2	Up to 3	--	--
• Size S0	A Up to 25	Up to 25	Up to 25	Up to 20	--	--	Up to 22	Up to 20
• Size S2	A Up to 50	Up to 50	Up to 50	Up to 40	--	--	--	--
• 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⁾	690 AC ²⁾	400 AC	690 AC	690 AC
Rated frequency	Hz 50/60	50/60	50/60	50/60	50/60	16 ² / ₃ ... 60	50/60	50/60
Trip class	CLASS 10, 20	CLASS 10	--	CLASS 10	--	--	--	--
Thermal overload releases								
A	0.11 ... 0.16	0.11 ... 0.16	Without ³⁾	0.11 ... 0.16	0.2	1.4 ... 3	0.16 ... 70 non-adjustable	0.16 ... 20 non-adjustable
A	80 ... 100	80 ... 100		28 ... 40				
Electronic release								
A multiple of the rated current	13 times	13 times	13 times	20 times	6 times	4 ... 7 times	13 times	20 times
Short-circuit breaking capacity I_{cu} at 400 V AC	kA 50/100	50/100	50/100	50/100	100	50	4)	4)

Accessories								
For sizes	S00 S0 S2 S3	S0 S2 S3	S0 S2 S3	S0 S2	S00	S00	S0, S3	S0
Auxiliary switches	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓	✓	✓ ⁵⁾	✓ ⁵⁾
Signaling switches	-- ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	--	--	--	--
Undervoltage releases	✓ ✓ ✓ ✓	-- -- --	✓ ✓ ✓	✓ ✓	✓	✓	✓	✓
Shunt releases	✓ ✓ ✓ ✓	-- -- --	✓ ✓ ✓	✓ ✓	✓	✓	✓	✓
Isolator modules	-- ✓ ✓ --	✓ ✓ --	✓ ✓ --	✓ ✓	--	--	--	--
Insulated three-phase busbar system	✓ ✓ ✓ --	-- ✓ --	✓ ✓ --	✓ ✓	✓	✓	--	--
Busbar adapters	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓	✓	--	--
Door-coupling rotary operating mechanisms	-- ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	--	--	✓	✓
Remote motorized operating mechanisms	-- -- ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓	--	--	--	--
Link modules	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓	✓	--	--
Enclosures for surface mounting	✓ ✓ ✓ --	✓ ✓ --	✓ ✓ --	✓ ✓	✓	✓	--	--
Enclosures for flush mounting	✓ ✓ -- --	✓ -- --	✓ -- --	✓ --	✓	✓	--	--
Front plates	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓	✓	--	--
Infeed system	✓ ✓ -- --	-- -- --	✓ -- --	✓ --	--	--	--	--

✓ 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 500 V AC molded-plastic enclosure. For DC applications see "Protection Equipment – Motor Starter Protectors · 3RV1 Molded Case Motor Starter Protectors" Reference Manual, <http://support.automation.siemens.com/WW/view/en/50397200> → "Technical data" → "Direct current short-circuit breaking capacity".

³⁾ For overload protection of the motors, appropriate overload relays must be used.

⁴⁾ According to UL 489
 - at 480 V/277 V AC: for size S0 50 kA, for size S3 65 kA;
 - at 480 V AC: for size S3 (10 to 30 A) 65 kA.

⁵⁾ Only lateral auxiliary switches can be fitted.