

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV2 Motor Starter Protectors/Circuit Breakers up to 80 A

General data

3RV20 motor starter protectors (up to 80 A) as "Self-Protected Combination Motor Controller (Type E)"

UL 508/UL 60947-4-1 approval demands 1-inch clearance and 2-inch creepage distance at line side for "Self-Protected Combination Motor Controller Type E".

Therefore, 3RV20 motor starter protectors of sizes S00 to S2 are approved according to UL 508/UL 60947-4-1 in combination with the terminal blocks listed below.

CSA does not require these extended clearances and creepage distances. According to CSA, these terminal blocks can be omitted when the device is used as a "Self-Protected Combination Motor Controller".

The 3RV20 motor starter protectors are approved as "Self-Protected Combination Motor Controllers" under the following file numbers:

- UL File No. E156943, CCN: NKJH
- CSA Master Contract 165071, Product Class: 3211 08

Motor starter protectors	hp rating ¹⁾ for FLA ²⁾ max.		Rated current I_n	Up to 240 V AC		Up to 480 Y/277 V AC		Up to 600 Y/347 V AC	
	Single-phase	Three-phase		UL $I_{bc}^{(3)}$	CSA $I_{bc}^{(3)}$	UL $I_{bc}^{(3)}$	CSA $I_{bc}^{(3)}$	UL $I_{bc}^{(3)}$	CSA $I_{bc}^{(3)}$
Type	V		A	kA	kA	kA	kA	kA	kA
Size S00									
3RV2011 + 3RV2928-1H⁴⁾5)			0.16 ... 12.5	65	65	65	65	30	30
FLA ²⁾ max.	115	1	2	65	65	65	65	--	--
16 A, 480 V;	200	2	3	65	65	65	65	--	--
12.5 A, 600 V	230	2	5	65	65	65	65	--	--
	460	--	10	65	65	65	65	--	--
	575/600	--	10	65	65	65	65	--	--
Size S0									
3RV2021 + 3RV2928-1H⁴⁾5)			0.16 ... 12.5	65	65	65	65	30	30
FLA ²⁾ max.	115	2	5	65	65	65	65	--	--
32 A, 480 V	200	3	7 1/2	65	65	65	65	--	--
	230	5	10	50	50	50	50	--	--
	460	--	20	50	50	50	50	--	--
	575/600	--	--	50	50	50	50	--	--
Size S2									
3RV2031/3RV2032 + 3RV2938-1K⁴⁾				Values on request					

-- No approval

¹⁾ hp rating = Power rating in horse power (maximum motor rating).

²⁾ FLA = Full Load Amps/motor full load current.

³⁾ Corresponds to "short-circuit breaking capacity" according to UL/CSA.

⁴⁾ Not required for CSA.

⁵⁾ Alternatively, the 3RV2928-1K phase barrier can also be used.

3RV27 and 3RV28 motor starter protectors as "circuit breakers"

These motor starter protectors are approved as circuit breakers according to UL 489 and CSA 22.2 No. 5. They can be used therefore as upstream short-circuit protective devices for "Manual Motor Controllers" and "Manual Motor Controllers Suitable for Tap Conductor Protection in Group Installations".

3RV27 and 3RV28 motor starter protectors are approved as "circuit breakers" under the following file numbers:

- UL File No. E235044, CCN: DIVQ
- CSA Master Contract 165071, Product Class: 1432 01

Circuit breakers	Rated current I_n	240 V AC		480 Y/277 V AC		600 Y/347 V AC	
		UL $I_{bc}^{(1)}$	CSA $I_{bc}^{(1)}$	UL $I_{bc}^{(1)}$	CSA $I_{bc}^{(1)}$	UL $I_{bc}^{(1)}$	CSA $I_{bc}^{(1)}$
Type	A	kA	kA	kA	kA	kA	kA
Size S00							
3RV2711		0.16 ... 12.5	65	65	65	65	10
		15	65	65	65	65	--
3RV2811		0.16 ... 12.5	65	65	65	65	10
		15	65	65	65	65	--
Size S0							
3RV2721		20; 22	50	50	50	50	--
3RV2821		20; 22	50	50	50	50	--

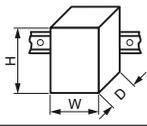
-- No approval

¹⁾ Corresponds to "short-circuit breaking capacity" according to UL.

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General data

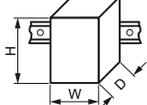
General data		3RV2.1.	3RV2.2.	3RV2.3.	3RV27, 3RV28
Type		S00	S0	S2	S00, S0
Size					
Dimensions (W x H x D)					
• Screw terminals		45 x 97 x 91	45 x 97 x 91	55 x 140 x 149	45 x 144 x 92
• Spring-type terminals		45 x 106 x 91	45 x 119 x 91	--	--
		mm	mm		
Standards					
• IEC 60947-1, EN 60947-1 (VDE 0660 Part 100)		Yes			
• IEC 60947-2, EN 60947-2 (VDE 0660 Part 101)		Yes			
• IEC 60947-4-1, EN 60947-4-1 (VDE 0660 Part 102)		Yes	Yes	Yes	--
• UL 508/UL 60947-4-1, CSA C22.2 No. 14/CSA C22.2 No. 60947-4-1		Yes	Yes	Yes	--
• UL 489, CSA C22.2 No. 5		--	--	--	Yes
Number of poles		3			
Max. rated current I_n max (= max. rated operational current I_e)	A	16	40	80	22
Permissible ambient temperature					
• Storage/transport		-50 ... +80			
• Operation		-20 ... +70			
	I_n : 0.16 ... 32 A	(current reduction above +60 °C)		--	
	I_n : 36 ... 40 A	--	-20 ... +40	--	
			(the devices must not be mounted side-by-side and they must not be assembled with link modules with contactors. A lateral clearance of 9 mm is required.)		
	I_n : 14 ... 80 A	--		-20 ... +70	--
				(current reduction above +60 °C)	
Permissible rated current at inside temperature of control cabinet					
• +60 °C	%	100			
• +70 °C	%	87			
Permissible rated current at ambient temperature of enclosure (applies for motor starter protector/circuit breaker inside enclosure ≤ 32 A)					
• +35 °C	%	100		On request	100
• +60 °C	%	87			87
Rated operational voltage U_e					
• Acc. to IEC	V AC	690 (when a molded-plastic enclosure is used only 500 V)			
• Acc. to UL/CSA	V AC	600			
Rated frequency	Hz	50/60			
Rated insulation voltage U_i	V	690			
Rated impulse withstand voltage U_{imp}	kV	6			
Utilization category					
• IEC 60947-2 (motor starter protector/circuit breaker)	A	AC-3			
• IEC 60947-4-1 (motor starter)					
Trip class CLASS	Acc. to IEC 60947-4-1	10		10/20	--
DC short-circuit breaking capacity (time constant $t = 5$ ms)					
• 1 conducting path 150 V DC	kA	10		On request	10
• 2 conducting paths in series 300 V DC	kA	10			10
• 3 conducting paths in series 450 V DC	kA	10			10
Power loss P_V for each motor starter protector/circuit breaker					
Dependent on the rated current I_n (upper setting range)					
	I_n : 0.16 ... 0.63 A	W	5	--	5
	I_n : 0.8 ... 6.3 A	W	6	--	6
	I_n : 8 ... 16 A	W	7	--	7
	I_n : 16 A	W	--	7	10
	I_n : 17 ... 25 A	W	--	8	12
	I_n : 28 ... 32 A	W	--	11	14
	I_n : 36 ... 40 A	W	--	14	15
	I_n : 45 ... 52 A	W	--	--	17
	I_n : ... 80 A	W	--	--	On request
$R_{per\ conducting\ path} = \frac{P}{I^2 \times 3}$					
Shock resistance	Acc. to IEC 60068-2-27	g/ms	25/11 (square and sine pulse)		
Degree of protection	Acc. to IEC 60529		IP20		
Touch protection	Acc. to EN 50274		Finger-safe for vertical contact from the front		
Temperature compensation	Acc. to IEC 60947-4-1	°C	-20 ... +60		
Phase failure sensitivity	Acc. to IEC 60947-4-1		Yes (only for 3RV23 motor starter protectors)		No
Explosion protection – Safe operation of motors with "increased safety" type of protection			Yes (only for 3RV20 motor starter protectors)		
EC type test certificate number according to directive 94/9/EC (ATEX)			DMT 02 ATEX F 001  II (2) GD	On request	No

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General data

General data (continued)

General data (continued)		3RV2.1.	3RV2.2.	3RV2.3.	3RV27, 3RV28
Type		S00	S0	S2	S00, S0
Size		45 x 97 x 91	45 x 97 x 91	55 x 140 x 149	45 x 144 x 92
Dimensions (W x H x D)		45 x 106 x 91	45 x 119 x 91	--	--
• Screw terminals • Spring-type terminals					
Isolating function	Acc. to IEC 60947-2	Yes			
Main and EMERGENCY-STOP switch characteristics	Acc. to DIN EN 60204-1	Yes			
(with corresponding accessories)					
Protective separation between main and auxiliary circuits, required for PELV applications	Acc. to IEC 60947-1				
• Up to 400 V +10 % • Up to 415 V +5 % (higher voltages on request)		Yes			
		Yes			
Permissible mounting position		Any, acc. to IEC 60447 start command "I" right-hand side or top			
Mechanical endurance	Operating cycles	100 000		52 A: 50 000, 80 A: On request	100 000
Electrical endurance	Operating cycles	100 000		52 A: 50 000, 80 A: On request	100 000
Max. switching frequency per hour (motor starts)	1/h	15			

Rated data of the auxiliary switches and signaling switches

		Lateral auxiliary switch with 1 NO + 1 NC, 2 NO, 2 NC, 2 NO + 2 NC	Signaling switches	Transverse auxiliary switch with 1 CO	1 NO + 1 NC, 2 NO
Max. rated voltage					
• Acc. to NEMA (UL)	V AC	600			250
• Acc. to NEMA (CSA)	V AC	600			250
Uninterrupted current	A	10		5	2.5
Switching capacity		1 NO + 1 NC, 2 NO, 2 NC; A600, Q300; 2 NO + 2 NC; A300, Q300	A600, Q300	B600, R300	C300, R300

Front transverse auxiliary switches

		Switching capacity for different voltages	
		1 CO	1 NO + 1 NC, 2 NO
Rated operational current I_e			
• At AC-15, alternating voltage			
- 24 V	A	4	2
- 230 V	A	3	0.5
• At AC-12 = I_{th} , alternating voltage			
- 24 V	A	10	2.5
- 230 V	A	10	2.5
• At DC-13, direct voltage L/R 200 ms			
- 24 V	A	1	1
- 48 V	A	--	0.3
- 60 V	A	--	0.15
- 110 V	A	0.22	--
- 220 V	A	0.1	--
Minimum load capacity	V mA	17 1	

Front transverse solid-state compatible auxiliary switches

		Switching capacity for different voltages	
		1 CO	
Rated operational voltage U_e	Alternating voltage	V	125
Rated operational current $I_e/AC-14$	at $U_e = 125$ V	A	0.1
Rated operational voltage U_e	Direct voltage L/R 200 ms	V	60
Rated operational current $I_e/DC-13$	at $U_e = 60$ V	A	0.3
Minimum load capacity	V mA	5 1	

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General data

Lateral auxiliary switches with signaling switch		Switching capacity for different voltages: Lateral auxiliary switch with 1 NO + 1 NC, 2 NO, 2 NC, 2 NO + 2 NC Signaling switch	
Rated operational current I_e			
• At AC-15, alternating voltage			
- 24 V	A	6	
- 230 V	A	4	
- 400 V	A	3	
- 690 V	A	1	
• At AC-12 = I_{th} , alternating voltage			
- 24 V	A	10	
- 230 V	A	10	
- 400 V	A	10	
- 690 V	A	10	
• At DC-13, direct voltage L/R 200 ms			
- 24 V	A	2	
- 110 V	A	0.5	
- 220 V	A	0.25	
- 440 V	A	0.1	
Minimum load capacity	V	17	
	mA	1	
Auxiliary releases			
		Undervoltage releases	Shunt releases
Power consumption			
• During pick-up			
- AC voltages	VA/W	20.2/13	20.2/13
- DC voltages	W	20	13 ... 80
• During uninterrupted duty			
- AC voltages	VA/W	7.2/2.4	--
- DC voltages	W	2.1	--
Response voltage			
• Tripping	V	$0.35 \dots 0.7 \times U_s$	$0.7 \dots 1.1 \times U_s$
• Pick-up	V	$0.85 \dots 1.1 \times U_s$	--
Opening time maximum	ms	20	
Short-circuit protection for auxiliary and control circuits			
Melting fuses operational class gG	A	10	
Miniature circuit breakers C characteristic	A	6 (prospective short-circuit current < 0.4 kA)	

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General data

Conductor cross-sections of main circuit						
Type		3RV2.11	3RV2.21	3RV2.31-4B1., 3RV2.31-4D.1., 3RV2.31-4E.1., 3RV2.31-4P.1., 3RV2.31-4S.1., 3RV2.31-4T.1., 3RV2.31-4U.1., 3RV2.31-4V.1.	3RV2.31-4J.1., 3RV2.31-4K.1., 3RV2.31-4R.1., 3RV2.31-4W.1., 3RV2.31-4X.1., 3RV2431-4VA1., 3RV2.32	3RV27, 3RV28
Size		S00	S0	S2		S00, S0
Connection type		 Screw terminals				
Terminal screw		M3, Pozidriv size 2	M4, Pozidriv size 2	M6, Pozidriv size 2		M4, Pozidriv size 2
Operating devices	mm	∅ 5 ... 6	∅ 5 ... 6	∅ 5 ... 6		∅ 5 ... 6
Prescribed tightening torque	Nm	0.8 ... 1.2	2 ... 2.5	3.0 ... 4.5		2.5 ... 3
Conductor cross-sections (min./max.), 1 or 2 conductors can be connected						
• Solid or stranded	mm ²	2 x (0.75 ... 2.5) ¹⁾ , 2 x 4	2 x (1 ... 2.5) ¹⁾ , 2 x (2.5 ... 10) ¹⁾	2 x (1 ... 25) ¹⁾ , 1 x (1 ... 35) ¹⁾	2 x (1 ... 35) ¹⁾ , 1 x (1 ... 50) ¹⁾	2 x (1 ... 10) ¹⁾ , max. 1 x 25
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5) ¹⁾ , 2 x (0.75 ... 2.5) ¹⁾	2 x (1 ... 2.5) ¹⁾ , 2 x (2.5 ... 6) ¹⁾ , 1 x 10	2 x (1 ... 16) ¹⁾ , 1 x (1 ... 25) ¹⁾	2 x (1 ... 25) ¹⁾ , 1 x (1 ... 35) ¹⁾	1 x (1 ... 16), max. 6 + 16
• AWG cables, solid or stranded	AWG	2 x (20 ... 16) ¹⁾ , 2 x (18 ... 12) ¹⁾	2 x (16 ... 12) ¹⁾ , 2 x (14 ... 8) ¹⁾	2 x (18 ... 3) ¹⁾ , 1 x (18 ... 2) ¹⁾	2 x (18 ... 2) ¹⁾ , 1 x (18 ... 1) ¹⁾	2 x (14 ... 10)
Connection type		 Spring-type terminals				
Operating devices	mm	3.0 x 0.5 and 3.5 x 0.5				
Conductor cross-sections (min./max.), 1 or 2 conductors can be connected						
• Solid or stranded	mm ²	2 x (0.5 ... 4)	2 x (1 ... 10)	--		
• Finely stranded without end sleeve	mm ²	2 x (0.5 ... 2.5)	2 x (1 ... 6)	--		
• Finely stranded with end sleeve (DIN 46228-11)	mm ²	2 x (0.5 ... 2.5)	2 x (1 ... 6)	--		
• AWG cables, solid or stranded	AWG	2 x (20 ... 12)	2 x (18 ... 8)	--		
Max. external diameter of the conductor insulation	mm	3.6	3.6	--		
Connection type		 Ring terminal lug connections				
Terminal screw		M3, Pozidriv size 2	M4, Pozidriv size 2	--		
Operating devices	mm	∅ 5 ... 6	∅ 5 ... 6	--		
Prescribed tightening torque	Nm	0.8 ... 1.2	2 ... 2.5	--		
Usable ring terminal lugs	mm	d ₂ = min. 3.2, d ₃ = max. 7.5	d ₂ = min. 4.3, d ₃ = max. 12.2	--		
<ul style="list-style-type: none"> • DIN 46234 without insulation sleeve • DIN 46225 without insulation sleeve • DIN 46237 with insulation sleeve • JIS C2805 Type R without insulation sleeve • JIS C2805 Type RAV with insulation sleeve • JIS C2805 Type RAP with insulation sleeve 						

¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must be in the range specified.

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General data

Conductor cross-sections for auxiliary and control circuits

Type	3RV2.11	3RV2.21	3RV2.31, 3RV2.32	3RV27, 3RV28
Size	S00	S0	S2	S00, S0
Connection type	 Screw terminals			
Terminal screw	M3, Pozidriv size 2			
Operating devices	mm	∅ 5 ... 6		
Prescribed tightening torque	Nm	0.8 ... 1.2		
Conductor cross-sections (min./max.) , 1 or 2 conductors can be connected				
• Solid or stranded	mm ²	2 x (0.5 ... 1.5) ¹⁾ , 2 x (0.75 ... 2.5) ¹⁾		
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5) ¹⁾ , 2 x (0.75 ... 2.5) ¹⁾		
• AWG cables, solid or stranded	AWG	2 x (18 ... 14) ¹⁾ , 2 x (20 ... 16) ¹⁾		
Connection type	 Spring-type terminals			
Operating devices	mm	3.0 x 0.5 and 3.5 x 0.5		
Conductor cross-sections (min./max.) , 1 or 2 conductors can be connected				
• Solid or stranded	mm ²	2 x (0.5 ... 2.5)		
• Finely stranded without end sleeve	mm ²	2 x (0.5 ... 2.5)		
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5)		
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)		
Max. external diameter of the conductor insulation	mm	3.6		
Connection type	 Ring terminal lug connections			
Terminal screw	M3, Pozidriv size 2			
Operating devices	mm	∅ 5 ... 6		
Tightening torque	Nm	0.8 ... 1.2		
Usable ring terminal lugs	mm	d ₂ = min. 3.2, d ₃ = max. 7.5		
• DIN 46234 without insulation sleeve				
• DIN 46225 without insulation sleeve				
• DIN 46237 with insulation sleeve				
• JIS C2805 Type R without insulation sleeve				
• JIS C2805 Type RAV with insulation sleeve				
• JIS C2805 Type RAP with insulation sleeve				

¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must be in the range specified.

Terminals for "Self-Protected Combination Motor Controllers (Type E) according to UL 508/UL 60947-4-1"

Type	3RV2928-1H
Prescribed tightening torque	Nm 2.5 ... 3
Conductor cross-sections	
• Front clamping point connected	
 - Solid	mm ² 1 ... 10
- Finely stranded with end sleeve	mm ² 1 ... 16
- Stranded	mm ² 2.5 ... 25
- AWG cables, solid or stranded	AWG 14 ... 3
- Terminal screw	M4
• Rear clamping point connected	
 - Solid	mm ² 1 ... 10
- Finely stranded with end sleeve	mm ² 1 ... 16
- Stranded	mm ² 1.5 ... 25
- AWG cables, solid or stranded	AWG 14 ... 6
- Terminal screw	M4
• Both clamping points connected	
 - Front clamping point:	
Solid	mm ² 1 ... 10
Finely stranded with end sleeve	mm ² 1 ... 10 ¹⁾ , 1 ... 6 ¹⁾
Stranded	mm ² 2.5 ... 10
AWG cables, solid or stranded	AWG 14 ... 6
Terminal screw	M4
- Rear clamping point:	
Solid	mm ² 1 ... 10
Finely stranded with end sleeve	mm ² 1 ... 10 ¹⁾ , 1 ... 16 ¹⁾
Stranded	mm ² 2.5 ... 10
AWG cables, solid or stranded	AWG 16 ... 3
Terminal screw	M4

¹⁾ The following can be connected when both clamping points are connected:

- Front 1 ... 10 mm² and rear 1 ... 10 mm²
- Front 1 ... 6 mm² and rear 1 ... 16 mm²

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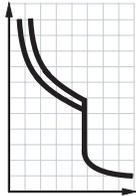
SIRIUS 3RV2 Motor Starter Protectors up to 80 A

For motor protection

Selection and ordering data

CLASS 10, without auxiliary switches¹⁾

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41E



3RV2011-0AA10



3RV2011-0EA20



3RV2021-4AA10



3RV2021-4AA20

Rated current I_n A	Suitable for three-phase motors ²⁾ with P kW	Setting range for thermal overload release A	Instantaneous overcurrent release A	Short-circuit breaking capacity at 400 V AC I_{cu} kA	DT	Screw terminals		Spring-type terminals	
						Article No.	Price per PU	Article No.	Price per PU
Size S00									
0.16	0.04	0.11 ... 0.16	2.1	100		▶ 3RV2011-0AA10		▶ 3RV2011-0AA20	
0.2	0.06	0.14 ... 0.2	2.6	100		▶ 3RV2011-0BA10		▶ 3RV2011-0BA20	
0.25	0.06	0.18 ... 0.25	3.3	100		▶ 3RV2011-0CA10		▶ 3RV2011-0CA20	
0.32	0.09	0.22 ... 0.32	4.2	100		▶ 3RV2011-0DA10		▶ 3RV2011-0DA20	
0.4	0.09	0.28 ... 0.4	5.2	100		▶ 3RV2011-0EA10		▶ 3RV2011-0EA20	
0.5	0.12	0.35 ... 0.5	6.5	100		▶ 3RV2011-0FA10		▶ 3RV2011-0FA20	
0.63	0.18	0.45 ... 0.63	8.2	100		▶ 3RV2011-0GA10		▶ 3RV2011-0GA20	
0.8	0.18	0.55 ... 0.8	10	100		▶ 3RV2011-0HA10		▶ 3RV2011-0HA20	
1	0.25	0.7 ... 1	13	100		▶ 3RV2011-0JA10		▶ 3RV2011-0JA20	
1.25	0.37	0.9 ... 1.25	16	100		▶ 3RV2011-0KA10		▶ 3RV2011-0KA20	
1.6	0.55	1.1 ... 1.6	21	100		▶ 3RV2011-1AA10		▶ 3RV2011-1AA20	
2	0.75	1.4 ... 2	26	100		▶ 3RV2011-1BA10		▶ 3RV2011-1BA20	
2.5	0.75	1.8 ... 2.5	33	100		▶ 3RV2011-1CA10		▶ 3RV2011-1CA20	
3.2	1.1	2.2 ... 3.2	42	100		▶ 3RV2011-1DA10		▶ 3RV2011-1DA20	
4	1.5	2.8 ... 4	52	100		▶ 3RV2011-1EA10		▶ 3RV2011-1EA20	
5	1.5	3.5 ... 5	65	100		▶ 3RV2011-1FA10		▶ 3RV2011-1FA20	
6.3	2.2	4.5 ... 6.3	82	100		▶ 3RV2011-1GA10		▶ 3RV2011-1GA20	
8	3	5.5 ... 8	104	100		▶ 3RV2011-1HA10		▶ 3RV2011-1HA20	
10	4	7 ... 10	130	100		▶ 3RV2011-1JA10		▶ 3RV2011-1JA20	
12.5	5.5	9 ... 12.5	163	100		▶ 3RV2011-1KA10		▶ 3RV2011-1KA20	
16	7.5	10 ³⁾ ... 16	208	55		▶ 3RV2011-4AA10		▶ 3RV2011-4AA20	
Size S0									
0.63	0.18	0.45 ... 0.63	8.2	100	NEW B	▶ 3RV2021-0GA10	B	▶ 3RV2021-0GA20	
0.8	0.18	0.55 ... 0.8	10	100	NEW B	▶ 3RV2021-0HA10	B	▶ 3RV2021-0HA20	
1	0.25	0.7 ... 1	13	100	NEW B	▶ 3RV2021-0JA10	B	▶ 3RV2021-0JA20	
1.25	0.37	0.9 ... 1.25	16	100	NEW B	▶ 3RV2021-0KA10	B	▶ 3RV2021-0KA20	
1.6	0.55	1.1 ... 1.6	21	100	NEW B	▶ 3RV2021-1AA10	B	▶ 3RV2021-1AA20	
2	0.75	1.4 ... 2	26	100	NEW B	▶ 3RV2021-1BA10	B	▶ 3RV2021-1BA20	
2.5	0.75	1.8 ... 2.5	33	100	NEW B	▶ 3RV2021-1CA10	B	▶ 3RV2021-1CA20	
3.2	1.1	2.2 ... 3.2	42	100	NEW B	▶ 3RV2021-1DA10	B	▶ 3RV2021-1DA20	
4	1.5	2.8 ... 4	52	100	NEW B	▶ 3RV2021-1EA10	B	▶ 3RV2021-1EA20	
5	1.5	3.5 ... 5	65	100	NEW B	▶ 3RV2021-1FA10	B	▶ 3RV2021-1FA20	
6.3	2.2	4.5 ... 6.3	82	100	NEW B	▶ 3RV2021-1GA10	B	▶ 3RV2021-1GA20	
8	3	5.5 ... 8	104	100	NEW B	▶ 3RV2021-1HA10	B	▶ 3RV2021-1HA20	
10	4	7 ... 10	130	100	NEW B	▶ 3RV2021-1JA10	B	▶ 3RV2021-1JA20	
12.5	5.5	9 ... 12.5	163	100	NEW B	▶ 3RV2021-1KA10	B	▶ 3RV2021-1KA20	
16	7.5	10 ³⁾ ... 16	208	55		▶ 3RV2021-4AA10		▶ 3RV2021-4AA20	
20	7.5	13 ³⁾ ... 20	260	55		▶ 3RV2021-4BA10		▶ 3RV2021-4BA20	
22	11	16 ³⁾ ... 22	286	55		▶ 3RV2021-4CA10		▶ 3RV2021-4CA20	
25	11	18 ³⁾ ... 25	325	55		▶ 3RV2021-4DA10		▶ 3RV2021-4DA20	
28	15	23 ... 28	364	55		▶ 3RV2021-4NA10		▶ 3RV2021-4NA20	
32 ⁴⁾	15	27 ... 32	400	55		▶ 3RV2021-4EA10		▶ 3RV2021-4EA20	
36 ⁵⁾	18.5	30 ... 36	432	20		▶ 3RV2021-4PA10		--	
40 ⁵⁾	18.5	34 ... 40	480	20		▶ 3RV2021-4FA10		--	

1) The 3RV20.1-...A.0 motor starter protectors up to 32 A are also available with ring terminal lug connection. The Article No. must be changed in the 11th digit to "4": e.g. 3RV2011-0AA40.

2) Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be protected must be considered when selecting the units.

3) The setting range of the thermal overload releases has been extended.

4) Suitable for use with IE3 motors up to a starting current of 256 A. For higher starting currents we recommend using 3RV2 motor starter protectors size S2.

5) The devices must not be mounted side-by-side and they must not be assembled with link modules with contactors. A lateral clearance of 9 mm is required. For use with IE3 motors we recommend using 3RV2 motor starter protectors size S2.

Auxiliary switches and other accessories can be ordered separately (see "Accessories" page 7/32 onwards).