## **SIEMENS**

Data sheet 3RV2021-0GA20



Circuit breaker size S0 for motor protection, CLASS 10 A-release 0.45...0.63 A N-release 8.2 A Spring-type terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S0
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
at AC in hot operating state per pole	2.4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
of auxiliary contacts typical	100 000
electrical endurance (switching cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	0.45 0.63 A
operating voltage	
• rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V

operational current rated value   0.63 A   0.6	operating frequency rated value	50 60 Hz
operating power		
* all AC-3 at 400 V rated value	_ ·	0.00 A
e at AC-2e at 4:00 V rated value  operating power  - at 230 V rated value  - at 4:00 V rated value  - at 6:00 V rated value  - at 4:00 V rated value  - at 4:00 V rated value  - at 4:00 V rated value  - at 5:00 V rated value  - at 5:00 V rated value  - at 5:00 V rated value  - at 6:00 V rated value  - at 5:00 V rated value  - at 6:00 V rated value  - at 6:00 V rated value  - at AC-2e maximum  - at AC-3e	-	0.63 A
Operating power		
• at AC-3		0.00 A
at 230 V rated value		
at 400 V rated value		0.1 kW
at 590 V rated value		
■ at AC-3e     ■ at 230 V rated value     ■ at 230 V rated value     ■ at 230 V rated value     ■ at 590 V rated value     ■ at 62-3 maximum     ■ at AC-3 maximum		
		U.J KY
		0.1 kW
at 500 V rated value		
operating frequency  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 maximum  15 1/h  Auxiliary circuit  number of NC contacts for auxiliary contacts  0  Protective and monitoring functions  product function  • ground fault defection  • product function  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 500 V rated value  • at 240 V rated value  • at 240 V rated value  • at 600 V rated value		
operating frequency  • at AC-3 maximum  • at AC-3 maximum  15 1/h  Auxiliary circuit  number of NC contacts for auxiliary contacts  0 number of NC contacts for auxiliary contacts  0 number of CC contacts for auxiliary contacts  0 protective and monitoring functions  product function  • ground fault detection  • product function  • ground fault detection  • product function  • ground fault detection  • product function  • ground rault detection  • product function  • ground rault detection  • phase salture detection  • product function  • ground rault detection  • phase salture detection  • product function  • at Cat 42 00 V rated value  • at AC at 400 V rated value  • at AC at 400 V rated value  • at AC at 450 V rated value  • at AC at 450 V rated value  • at AC at 450 V rated value  • at 400 V rated value  • at 400 V rated value  • at 400 V rated value  • at 500 V rated value  • at 500 V rated value  • at 500 V rated value  • at 600 V rated value  • a		
at AC-3 maximum at AC-3 maximum bit Ac-2e maximum bit Bit Ac-2e maximum bit Bit Ac-2e maximum bit Ac-2e maximum bit Bit Bit Ac-2e maximum bit Bit Ac-2e max		U.J RVV
at AC-3e maximum  Auxiliary circuit  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  product function  ground fault detection  hypase failure detection  trip class  CLASS 10  design of the overload release  breaking capacity maximum short-circuit current (Icu)  at AC at 240 V rated value  at AC at 500 V rated value  at AC at 500 V rated value  at AC at 500 V rated value  brasking capacity operating short-circuit current (Ics)  at AC at 650 V rated value  at AC at 440 V rated value  at AC at 440 V rated value  at 40 V rated value  at 40 V rated value  at 40 V rated value  at 500 V rated value  at 600 V rated value  at 480 V		15 1/h
Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Protective and monitoring functions product function • ground fault detection • ground fault detection • phase failure detection • phase failure detection • phase failure detection • phase failure detection • at Cat 240 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at 400 V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated va		
number of NC contacts for auxiliary contacts product function  Protective and monitoring functions  product function  ground fault detection  yes class  CLASS 10  design of the overload release breaking capacity maximum short-circuit current (icu)  at AC at 240 V rated value  at AC at 400 V rated value  at AC at 500 V rated value  at AC at 500 V rated value  at AC at 500 V rated value  breaking capacity operating short-circuit current (ics)  at AC  at 240 V rated value  100 kA  breaking capacity operating short-circuit current (ics)  at AC  at 240 V rated value  100 kA  100 kA  100 kA  100 kA  21 400 V rated value  100 kA  21 500 V rated value  100 kA  22 40 V rated value  100 kA  23 40 V rated value  24 500 V rated value  25 40 V rated value  26 600 V rated value  27 100 kA  28 2 A  100 kA  29 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		10 1/11
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Protective and monitoring functions  product function  • ground fault detection • phase failure detection • phase failure detection • phase failure detection • phase failure detection  • phase failure detection • CLASS 10  thermal  breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at 40 at 600 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 400 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated value • at 800 V rated value •		
number of CO contacts for auxiliary contacts  Protective and monitoring functions  product function  ground fault detection  phase failure detection  product function  ground fault detection  phase failure detection  yes  CLASS 10  CLASS 10  CLASS 10  thermal  breaking capacity maximum short-circuit current (Icu)  at AC at 240 V rated value  at AC at 4500 V rated value  at AC at 5500 V rated value  at AC at 6500 V rated value  too kA  at 240 V rated value  at AC at 400 V rated value  too kA  breaking capacity operating short-circuit current (Ics)  at AC  at 240 V rated value  too kA  at 240 V rated value  at 400 V rated value  at 500 V rated value  at 600 V rated value  breaking current of instantaneous short-circuit trip  unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  0.63 A  Short-circuit protection  product function short circuit protection  design of the overload parts at 400 V  — downwards  30 mm		
Protective and monitoring functions  product function  • ground fault detection • phase failure detection  Trip class  design of the overload release  breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 450 V rated value • at AC at 550 V rated value • at AC at 550 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 40 V rated value • at 400 V rated value • at 400 V rated value • at 600 V rated value • at 600 V rated value • at 690 V rated value • at 800 V rated value • at 690 V rated		
product function		U
• ground fault detection • phase failure detection Yes  trip class  design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated		
rip class CLASS 10 the overload release thermal therma	•	
trip class  design of the overload release breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value • at AC at 4500 V rated value • at AC at 4500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 4C at 400 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value  IND KA • at 690 V rated value • at 480 V rated value • at 690 V rate	_	
design of the overload release  breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 550 V rated value • at AC at 550 V rated value • at AC at 6590 V rated value • at AC at 6590 V rated value  breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value  breaking capacity operating short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 690 V rated value • 0.63 A • at 690 V rated value • 0.63 A • at 690 V rated value • 0.63 A  Short-circuit protection  product function short circuit protection  design of the short-circuit trip magnetic  magnetic  magnetic  magnetic  magnetic  magnetic  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  height  119 mm  width  depth  e for grounded parts at 400 V  — downwards  30 mm		
breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 600 V rated value  • at AC at 690 V rated value  breaking capacity operating short-circuit current (Ics) at AC  • at 240 V rated value  • at 400 V rated value  • at 400 V rated value  • at 690 V rated value  presponse value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  • at 6		
at AC at 240 V rated value at AC at 400 V rated value 100 kA at AC at 500 V rated value 100 kA breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value 100 kA breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value 100 kA at 400 V rated value 100 kA at 400 V rated value 100 kA at 500 V rated value 100 kA at 690 V rated value 100 kA breakings at 480 V rated value 100 kA at 690 V rated value 100 kA breakings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 0.63 A bort-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 119 mm width depth 97 mm required spacing of rogrounded parts at 400 V - downwards 30 mm		thermal
at AC at 400 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 500 V rated value breaking capacity operating short-circuit current (lcs) at AC at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 8.2 A  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value break of the short-circuit protection product function short circuit protection yes design of the short-circuit trip magnetic  Installation/ mounting/ dimensions mounting position any fastening method according to DIN EN 60715 height at 119 mm width depth yr mm required spacing for grounded parts at 400 V — downwards  30 mm		
at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC  at 240 V rated value at 400 V rated value at 690 V rated value because a final fina		
at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC  at 240 V rated value at 240 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value breaking capacity operating short-circuit trip at 690 V rated value at 690 V rated value breaking capacity operating short-circuit trip at 690 V rated value breaking capacity operating short-circuit trip at 690 V rated value breaking capacity operating short-circuit trip at 690 V rated value breaking capacity operating short-circuit trip at 690 V rated value breaking capacity operating short-circuit protection at 480 V rated value breaking capacity operating short-circuit protection broduct function short circuit protection  product function short circuit protection product function short circuit protection  product function short circuit protection  product function short circuit protection any angulation/mounting/dimensions mounting position any any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height tip mm width 45 mm depth  required spacing for grounded parts at 400 V  — downwards  30 mm	• at AC at 400 V rated value	100 kA
breaking capacity operating short-circuit current (Ics) at AC  • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value 100 kA • at 690 V rated value response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 0.63 A  Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method according to DIN EN 60715 height 119 mm width 45 mm depth required spacing • for grounded parts at 400 V — downwards 30 mm		
at AC  at 240 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  be at 600 V rated value  conditions and the foliation of the short-circuit trip magnetic  Installation/ mounting/ dimensions  mounting position  fastening method  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  installation/ mounting/ mounting onto 35 mm  required spacing  for grounded parts at 400 V  — downwards  100 kA		100 kA
at 400 V rated value at 500 V rated value 100 kA at 690 V rated value 100 kA response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 0.63 A at 600 V rated value 0.63 A short-circuit protection  product function short circuit protection  design of the short-circuit trip magnetic  Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height width 45 mm depth proquired spacing for grounded parts at 400 V — downwards 30 mm	at AC	
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value books and some short-circuit protection product function short circuit protection product function short circuit protection product function wounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height width depth productd spacing for grounded parts at 400 V downwards  at 500 V rated value  100 kA 100 k		
at 690 V rated value     response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value     at 600 V rated value     bear of the short-circuit protection  product function short circuit protection  any  fastellation/ mounting/ dimensions  mounting position  fastening method  according to DIN EN 60715  height  119 mm  width  45 mm  depth  required spacing  • for grounded parts at 400 V  — downwards  30 mm		
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  • at 600 V rated value  product function short circuit protection  product function short circuit protection  product function short circuit trip  magnetic  Installation/ mounting/ dimensions  mounting position  fastening method  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  till mm  width  45 mm  depth  required spacing  • for grounded parts at 400 V  — downwards  30 mm		
unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  0.63 A  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  Installation/ mounting/ dimensions  mounting position  fastening method  any  fastening method  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  width  depth  required spacing  • for grounded parts at 400 V  — downwards  30 mm		
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  Distriction product function short circuit protection  groduct function short circuit trip  Installation/ mounting/ dimensions  mounting position  fastening method  according to DIN EN 60715  height  width  depth  grounded parts at 400 V  — downwards  - 0.63 A   Interpretation of the short-circuit rip  magnetic  Installation/ mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  119 mm  45 mm  45 mm  45 mm  46 pth  97 mm	·	8.2 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  Distriction product function short circuit protection  groduct function short circuit trip  Installation/ mounting/ dimensions  mounting position  fastening method  according to DIN EN 60715  height  width  depth  grounded parts at 400 V  — downwards  - 0.63 A   Interpretation of the short-circuit rip  magnetic  Installation/ mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  119 mm  45 mm  45 mm  45 mm  46 pth  97 mm		
at 480 V rated value  at 600 V rated value  broduct function short circuit protection  product function short circuit trip  design of the short-circuit trip  Installation/ mounting/ dimensions  mounting position  fastening method  any fastening method  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  height  width  45 mm  depth  required spacing  • for grounded parts at 400 V  — downwards  30 mm		
at 600 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  Installation/ mounting/ dimensions  mounting position  fastening method  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  119 mm  width  45 mm  depth  required spacing  • for grounded parts at 400 V  — downwards  30 mm		0.63 A
Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic  Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 119 mm width 45 mm depth required spacing • for grounded parts at 400 V — downwards  Yes  Any Screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  119 mm 30 mm		
product function short circuit protection  design of the short-circuit trip  Installation/ mounting/ dimensions  mounting position  fastening method  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  119 mm  width  45 mm  depth  required spacing  • for grounded parts at 400 V  — downwards  30 mm		
design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 119 mm width 45 mm depth 97 mm  required spacing • for grounded parts at 400 V — downwards 30 mm		Yes
Installation/ mounting/ dimensions  mounting position  fastening method  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  119 mm  width  45 mm  depth  97 mm  required spacing  • for grounded parts at 400 V — downwards  30 mm		
mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 119 mm width 45 mm depth 97 mm  required spacing • for grounded parts at 400 V — downwards 30 mm		-9
fastening method  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  height  119 mm  width  45 mm  depth  97 mm  required spacing  • for grounded parts at 400 V  — downwards  30 mm		any
height         119 mm           width         45 mm           depth         97 mm           required spacing		screw and snap-on mounting onto 35 mm standard mounting rail
width 45 mm depth 97 mm  required spacing  ● for grounded parts at 400 V — downwards 30 mm	hoight	
depth 97 mm  required spacing  ● for grounded parts at 400 V  — downwards 30 mm		
required spacing  ● for grounded parts at 400 V  — downwards  30 mm		
◆ for grounded parts at 400 V     — downwards	•	97 111111
— downwards 30 mm		
	-	20
— Unwards 30 mm		
apmaido 00 IIIII	— upwards	30 mm

— at the side	9 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
<ul> <li>for live parts at 690 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
type of connectable conductor cross-sections  • for main contacts	
	2x (1 10 mm²)
for main contacts     — solid or stranded	2x (1 10 mm²) 2x (1 6 mm²)
<ul> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>	2x (1 6 mm²)
<ul> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul>	2x (1 6 mm²) 2x (1 6 mm²)
<ul> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> </ul>	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8)
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         • at AWG cables for main contacts  design of screwdriver shaft	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm
<ul> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> </ul>	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8)
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         • at AWG cables for main contacts  design of screwdriver shaft  size of the screwdriver tip	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         • at AWG cables for main contacts      design of screwdriver shaft     size of the screwdriver tip  Safety related data  B10 value     • with high demand rate according to SN 31920	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         • at AWG cables for main contacts      design of screwdriver shaft     size of the screwdriver tip  Safety related data  B10 value     • with high demand rate according to SN 31920  proportion of dangerous failures	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         • at AWG cables for main contacts      design of screwdriver shaft     size of the screwdriver tip  Safety related data  B10 value     • with high demand rate according to SN 31920	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         • at AWG cables for main contacts      design of screwdriver shaft     size of the screwdriver tip  Safety related data  B10 value     • with high demand rate according to SN 31920  proportion of dangerous failures	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         • at AWG cables for main contacts      design of screwdriver shaft     size of the screwdriver tip  Safety related data  B10 value     • with high demand rate according to SN 31920  proportion of dangerous failures     • with low demand rate according to SN 31920	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm 5 000
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         • at AWG cables for main contacts      design of screwdriver shaft     size of the screwdriver tip  Safety related data  B10 value     • with high demand rate according to SN 31920  proportion of dangerous failures     • with low demand rate according to SN 31920  • with high demand rate according to SN 31920	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm 5 000
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         — at AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip  Safety related data  B10 value         — with high demand rate according to SN 31920  proportion of dangerous failures         — with low demand rate according to SN 31920         — with high demand rate according to SN 31920  failure rate [FIT]	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm  5 000  50 % 50 %
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         — at AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip  Safety related data  B10 value         • with high demand rate according to SN 31920  proportion of dangerous failures         • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT]         • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm  5 000  50 % 50 % 50 FIT
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         — at AWG cables for main contacts  design of screwdriver shaft size of the screwdriver tip  Safety related data  B10 value         • with high demand rate according to SN 31920  proportion of dangerous failures         • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT]         • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm  5 000  50 % 50 % 50 FIT 10 y
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         — at AWG cables for main contacts      design of screwdriver shaft     size of the screwdriver tip  Safety related data  B10 value         • with high demand rate according to SN 31920  proportion of dangerous failures         • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT]         • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm  5 000  50 % 50 % 50 FIT 10 y IP20
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         — at AWG cables for main contacts      design of screwdriver shaft  size of the screwdriver tip  Safety related data  B10 value         — with high demand rate according to SN 31920  proportion of dangerous failures         — with low demand rate according to SN 31920         — with high demand rate according to SN 31920  failure rate [FIT]         — with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm  5 000  50 % 50 %  50 FIT 10 y  IP20  finger-safe, for vertical contact from the front
for main contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         — at AWG cables for main contacts      design of screwdriver shaft     size of the screwdriver tip  Safety related data  B10 value         • with high demand rate according to SN 31920  proportion of dangerous failures         • with low demand rate according to SN 31920          • with high demand rate according to SN 31920  failure rate [FIT]         • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display version for switching status	2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) Diameter 3 mm 3,0 x 0,5 mm  5 000  50 % 50 %  50 FIT 10 y  IP20  finger-safe, for vertical contact from the front





Confirmation



<u>KC</u>



**Declaration of Conformity** 

**Test Certificates** 







Type Test Certificates/Test Report Special Test Certificate

## Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Confirmation

Vibration and Shock

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-0GA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-0GA20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0GA20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

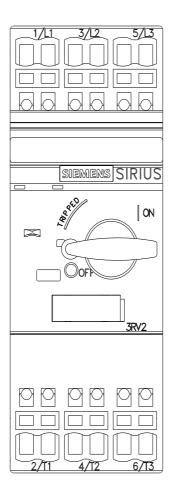
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-0GA20&lang=en

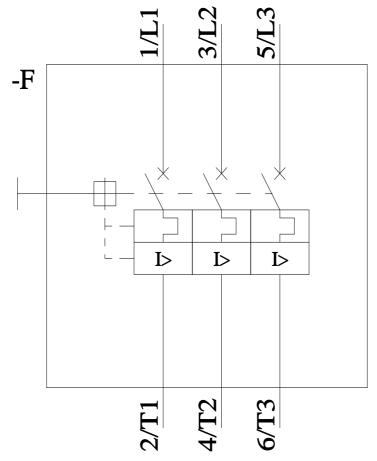
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0GA20/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0GA20&objecttype=14&gridview=view1





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