## SIEMENS

## Data sheet

## 3RV2021-1JA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 7...10 A N release 130 A screw terminal Standard switching capacity

2719 3772 673	
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>	9.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.1 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 (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating 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
SVHC substance name	Blei - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-20 +60 °C
during storage	-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	7 10 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
operating frequency rated value	50 60 Hz
operational current rated value	10 A

operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	10 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	10 A
operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
- at 230 V rated value	2.2 kW
	4 kW
— at 400 V rated value	
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
	Yes
phase failure detection	
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (lcu)	
• at AC at 240 V rated value	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	42 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
• at 500 V rated value	42 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	130 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	10 A
at 600 V rated value	10 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	1.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	10 hp
Short-circuit protection	Vec
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm

• regional dipse and 400 Vorm• for grounded perts al 400 V30 mm opwards30 mm- opwards30	required spacing	
• (or grounded parts at 00 V0 mm- upwards30 mm- u		0 mm
- downards         30 mm           - upwards         30 mm           - downards         30 mm           - upwards         30 mm           - upwards         30 mm           - downards         30 mm           - upwards         30 mm           - downards         30 mm		0 mm
- upwards0 mm- upwards9 mm- downwards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- ut be aide9 mm- upwards30 mm- upwards3		20 mm
- of the sale9 mm• for twe parts at 400 V downards30 mm- upwards30 mm- upwards90 mm- of the sale9 mm- of ownards30 mm- of ownards30 mm- of ownards30 mm- ownards30 mm- ownards30 mm- ownards30 mm- ownards50 mm </td <td></td> <td></td>		
• for the paths at 400 V·- downards30 mm- upwords30 mm- at the side9 mm- downwards30 mm- upwords30 mm- upwords50 mm- upwords50 mm- upwords50 mm- upwords30 mm- upwords30 mm- upwords50 mm- upwords30 mm- upwords30 mm- upwords30 mm- upwords30 mm- backwards30 mm- backwards30 mm- upwords50 mm- backwards0 mm- upwords50 mm- upwords30 mm- upwords50 mm- backwards0 mm- upwords50 mm- upwords30 mm <t< td=""><td></td><td></td></t<>		
- downwards30 mm- upwards30 mm- downwards9 mm- downwards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- at the side9 mm- downwards30 mm- upwards30 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards30 mm- downwards30 mm- upwards50 mm- upwards30 mm- downwards30 mm- downards30 mm- downards30 mm- downards30 mm- downards30 mm- downards30 mm- downards<		9 mm
- upwards30 mm- at the side9 mm- domwards30 mm- downwards30 mm- upwards30 mm- upwards30 mm- at the side9 mm- domwards30 mm- upwards30 mm- domwards30 mm- upwards30 mm- upwards30 mm- domwards30 mm- upwards50 mm- domwards50 mm- domwards50 mm- domwards50 mm- domwards50 mm- domwards50 mm- backwards50 mm- backwards50 mm- backwards50 mm- backwards50 mm- upwards50 mm- backwards50 mm- upwards50 mm <t< td=""><td>-</td><td></td></t<>	-	
• for grounded parts at 500 V     -       - downards     30 mm       at the side     9 mm       at the side     30 mm       at the side     30 mm       downards     30 mm       downards     30 mm       unvards     50 mm       unvards     50 mm       unvards     50 mm       unvards     50 mm       unvards     30 mm       backwards     50 mm       the side     30 mm	•	
- downwards 30 mm 4 m		9 mm
- upwards30 mm- at the side9 mm- downwards30 mm- upwards30 mm- upwards9 mm- upwards9 mm- downwards50 mm- upwards60 mm- upwards60 mm- upwards60 mm- downwards50 mm- upwards80 mm- upwards80 mm- upwards80 mm- upwards80 mm- upwards80 mm- backwards90 mm- downwards50 mm- downwards60 mm- downwards60 mm- downwards90 mm- downwards90 mm- downwards90 mm- downwards90 mm- upwards90 mm <trr>&lt;</trr>		
- at the side9 mm• for live parts at 500 V• upwards30 mm• upwards30 mm• upwards30 mm• at the side9 mm• domwards 500 V50 mm- upwards50 mm- upwards50 mm- upwards0 mm- upwards0 mm- upwards0 mm- upwards0 mm- domwards0 mm- dowwards0 mm- dowwards0 mm- dowwards50 mm- dowwards0 mm- dowwards50 mm- dowwards0 mm- dowwards0 mm- dowwards0 mm- dowwards0 mm- beckwards0 mm- beckwards2 (125 mm <sup>2</sup> ), 2 (2510 mm <sup>2</sup> )- for main contacts225 Nm- dosign of theread of the comection screw	— downwards	
• for live parts at 500 V	— upwards	30 mm
- downwards30 mm- upwards30 mm- upwards30 mm- of orgrounds parts at 600 V downwards50 mm- upwards50 mm- upwards50 mm- upwards00 mm- backwards00 mm- backwards50 mm- backwards00 mm- backwards50 mm- downwards50 mm- downards50 mm- downards50 mm- downards50 mm- downardsTo pand bottom- formain contacts70 pand bottom- solid or standed2x (1 25 mm <sup>3</sup> ), 2x (25 6 mm <sup>3</sup> ), 1x 10 mm <sup>4</sup> - solid or standed2 25 Nm- downards50 mm- formain contacts with screw-type terminals5 20 Nm- formain contacts5.00- failer ad according to SN 319205.0%- with high demand rate according to SN 319205.0%- with high demand rate according to SN 319205.0%-	— at the side	9 mm
	<ul> <li>for live parts at 500 V</li> </ul>	
	— downwards	30 mm
<ul> <li>ior grounded parts at 690 V</li> <li>downwards</li> <li>bookwards</li> <li>bookwards</li> <li>bookwards</li> <li>at the side</li> <li>omm</li> <li>forwards</li> <li>omm</li> <li>forwards</li> <li>omm</li> <li>forwards</li> <li>omm</li> <li>omm</li> <li>of relive parts at 600 V</li> <li>downwards</li> <li>for live parts at 600 V</li> <li>downwards</li> <li>of onm</li> <li>opwards</li> <li>of on an outrient circuit</li> <li>scene-type terminals</li> <li>of on an outracts</li> <li>opwin the ownand rate acco</li></ul>	— upwards	30 mm
- downwards50 mm- upwards50 mm- upwards50 mm- at the side30 mm- at the side30 mm- forwards50 mm- downwards50 mm- downwards50 mm- downwards50 mm- downwards50 mm- downwards50 mm- downwards0 mm- backwards0 mm- backwards- backwards	— at the side	9 mm
- upwards50 mm- backwards0 mm- backwards00 mm- forwards00 mm- forwards50 mm- forwards50 mm- upwards50 mm- upwards0 mm- upwards0 mm- upwards0 mm- backwards0 mm- backwards0 mm- the side0 mm- forwards0 mm- forwards0 mm- forwards0 mm- forwards0 mm- forwards0 mm- forwards0 mm- formain current fouldscrew-type terminals- formain current fouldscrew-type terminals- formain current found2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )- for main current for ada current for main current2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>4</sup> - for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>4</sup> - for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>4</sup> - for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>4</sup> - for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>4</sup> - for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>4</sup> - for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>4</sup> - for main contactsDameter 5 to 6 mm- for main contacts5000- for main contacts50 %- with high demand rate according to SN 3192050 %- with high demand rate according t	<ul> <li>for grounded parts at 690 V</li> </ul>	
	— downwards	50 mm
backwards     0 mm	— upwards	50 mm
- at the side       30 mm         - forwards       0 mm         • for live pats at 690 V       50 mm         - upwards       50 mm         - upwards       60 mm         - upwards       0 mm         - browards       30 mm         - upwards       0 mm         - the side       30 mm         - forwards       0 mm         - forwards       0 mm         - formain current circuit       screw-type terminals         trapmement of electrical connectors for main current       Top and bottom         * for main current circuit       screw-type terminals         • for main current circuit       2x (1 25 mm <sup>2</sup> ), 2x (25 10 mm <sup>2</sup> )         • for main contacts       2x (1 25 mm <sup>2</sup> ), 2x (25 0 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • for main contacts       2x (1 (1 25 mm <sup>2</sup> ), 2x (25 0 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • for main contacts       2x (1 (1 25 mm <sup>2</sup> ), 2x (25 0 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • for main contacts       2x (1 (1 25 mm <sup>2</sup> ), 2x (25 0 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • for main contacts       2 25 Nm         design of screwdriver shaft       Diameter 5 to 6 mm         • for main contacts       5000         • for main contacts       5000         • for main contacts	•	0 mm
• for live parts at 680 VImage: state sta		30 mm
• for live parts at 680 VImage: state sta	— forwards	0 mm
- downwards       50 mm         - upwards       50 mm         - upwards       0 mm         - backwards       0 mm         - at the side       30 mm         - forwards       0 mm         connections/Terminals       0 mm         connections/Terminals       0 mm         of main current circuit       screw-type terminals         arrangement of electrical connectors for main current circuit       Top and bottom         of or dian contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>2</sup> )         - fork with core end processing       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> - for main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> of or main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> of or main contacts       2 2.5 N·m         of or main contacts       2 2.5 N·m         of or main contacts       M4         Softer velated data       50 00         Softer velated data       50 %         softer velated data       50 %         failure rate filter according to SN 31920       50 %         with how demand rate according to SN 31920       50 %         with how demand rate according to SN 31920       50 %		
- upwards       50 mm         - backwards       0 mm         - at the side       30 mm         - for main connections       0 mm         Connections/Terminals       screw-type terminals         arrangement of electrical connectors for main current circuit       screw-type terminals         arrangement of electrical connectors for main current circuit       Top and bottom         • for main contacts       - solid or stranded         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for main contacts with screw-type terminals       2 2.5 Nm         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       M4         • for main contacts       M4         Safety related data       50 %         e. with high demand rate according to SN 31920       50 %         • with low demand rate according to SN 31920       50 %         • with low demand rate according to SN 31920       50 %         • with low demand rate according to SN 31920       50 %         • with low dem	-	50 mm
	•	
— forwards       0 mm         Connections/ Terminals         type of electrical connectors for main current circuit         connectable conductor cross-sections         • for main contacts       Top and bottom         • for main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • for Main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • for MKC cables for main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • for MKC cables for main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • for MKC cables for main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • for main contacts with screev-type terminals       2 2.5 N <sup>m</sup> design of screewdriver shaft       Diameter 5 to 6 mm         • for main contacts       M4         Safety related data       M4         Safety related data       M4         Safety related data       5 000         Figure ate according to SN 31920       5 0%         • with high demand rate according to SN 31920       5 0%         • with low demand rate according to SN 31920       50 %         failure rate [FIT]       • with low demand rate according to SN 31920       50 %         failure rate according to SN 31920       50 %		
Connections/ Terminals           type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts · solid or stranded · - solid or stranded · - finely stranded with core end processing • for AWG cables for main contacts · for AWG cables for main contacts vorth contacts • for AWG cables for main contacts vorth contacts • for main contacts with screw-type terminals • for main contacts with screw-type terminals vorth in contacts vorth in w demand rate according to SN 31920 vorth in worth act according to IEC 60529 protection class IP on the front according to IEC 60529 protection on the front according to IEC 60529 protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Va		
type of electrical connection       screw-type terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       • for main contacts         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         - finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         - finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for main contacts       2x (1 2.5 mm²), 2x (2.5 10 mm²)         • for main contacts with screw-type terminals       2x. (1 12), 2x (14 8)         tightening torque       • for main contacts with screw-type terminals         • for main contacts with screw-type terminals       2 2.5 N-m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of dangerous failures       M4         • ofm main contacts       5 000         propertion of dangerous failures       5 000         • with low demand rate according to SN 31920       5 0 %         • with low demand rate according to SN 31920       50 %         faiture rate [FIT]       • with low demand rate according to IEC 60529		
• for main current circuit       screw-type terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       Top and bottom         • for main contacts       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for main contacts with screw-type terminals       2 2.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver shaft       M4         Safety related data       M4         Safety related data       5000         with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with low demand rate according to SN 31920       50 %         • with low demand rate according to SN 31920       50 %         • with low demand rate according to SN 31920       50 FIT         11 value for proof test interval or service life according to IEC 60529       IP20         touch protection on the front accor		
arrangement of electrical connectors for main current circuit         Top and bottom           type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AVG cables for main contacts • for MAIC cables for main contacts • for main contacts with screw-type terminals 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (1 2.5 mm²), 2x (1 8) tightening torque • for main contacts with screw-type terminals 2 2.5 N·m design of screwdriver shaft biameter 5 to 6 mm size of the screwdriver tip • for main contacts scafety related data B10 value • with high demand rate according to SN 31920 volt low demand rate according to SN 31920 5 000 proportion of dangerous failures • with low demand rate according to SN 31920 50 % * with low demand rate according to SN 31920 50 % failure rate [FI] • with low demand rate according to SN 31920 50 % failure rate [FI] • with low demand rate according to SN 31920 50 % failure rate [FI] • with low demand rate according to SN 31920 50 % failure rate [FI] • with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle Certificatest approvals             vertificatest approvals             vertificatest		screw type terminals
type of connectable conductor cross-sections         • for main contacts         - solid or stranded       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>2</sup> )         - finely stranded with core end processing       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>2</sup> • for AWG cables for main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>2</sup> • for AWG cables for main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>2</sup> • for main contacts with screw-type terminals       2 (2.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       •         • for main contacts       M4         Safety related data       5 000         proportion of dangerous failures       •         • with high demand rate according to SN 31920       50 %         • with low demand rate according to SN 31920       50 %         • with low demand rate according to SN 31920       50 %         • with low demand rate according to SN 31920       50 %         • with low demand rate according to IEC 60529       10 a         failure rate [FIT]       •         • with low demand rate according to IEC 60529       IP20         touch protection on the front according to IEC 60	arrangement of electrical connectors for main current	
• for main contacts		
solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²+ for AWG cables for main contacts2x (16 12), 2x (14 8)tightening torque2 2.5 N·m- for main contacts with screw-type terminals2 2.5 N·mdesign of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screwM4Safety related data5000Safety related data5000Proportion of dangerous failures5000• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %failure rate [FIT]50 FIT• with how demand rate according to SN 3192050 FIT1 value for proof test interval or service life according to IEC 60529IP20touch protection on the front according to IEC 60529IP20touch protection on the front according to IEC 60529IP20touch protection on the front according to IEC 60529Ipac.display version for switching statusHandleCertificates/ approvalsSafety related contact from the front		
finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• for AWG cables for main contacts2x (16 12), 2x (14 8)tightening torque2 2.5 N·m• for main contacts with screw-type terminals2 2.5 N·mdesign of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screw• for main contactsM4Safety related dataB10 value5 000• with high demand rate according to SN 319205 000proportion of dangerous failures• with low demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with how demand rate according to SN 3192050 FIT1 value for proof test interval or service life according to IEC 60529Ip20touch protection class IP on the front according to IEC 60529Ip20touch protection or switching statusHandleCertificates/ approvalsFalure		$2v/(1 - 2.5 mm^2) - 2v/(2.5 - 10 mm^2)$
• for AWG cables for main contacts       2x (16 12), 2x (14 8)         tightening torque       2 2.5 N·m         • for main contacts with screw-type terminals       2 2.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       M4         • for main contacts       M4         Safety related data       5 000         proportion of dangerous failures       5 000         • with high demand rate according to SN 31920       5 0 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       50 FIT         • with low demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 60529       10 a         protection class IP on the front according to IEC 60529       Finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       Landle		
tightening torque       2 2.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       M4         • for main contacts       M4         Safety related data       E10 value         • with high demand rate according to SN 31920       5 000         proportion of dangerous failures       5 000         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       50 %         • with high demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 60529       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       Kandle		
• for main contacts with screw-type terminals       2 2.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       •         • for main contacts       M4         Safety related data       B10 value         • with high demand rate according to SN 31920       5 000         proportion of dangerous failures       -         • with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with how demand rate according to SN 31920       50 FIT         1 value for proof test interval or service life according to IEC 60529       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals		2X (10 12), 2X (14 8)
design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       Pozidriv size 2         e for main contacts       M4         Safety related data         B10 value         e with high demand rate according to SN 31920       5 000         proportion of dangerous failures       5 000         e with low demand rate according to SN 31920       50 %         e with high demand rate according to SN 31920       50 %         e with high demand rate according to SN 31920       50 %         failure rate [FIT]       50 %         e with how demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 60529       10 a         f1508       IP20         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       Image: Safe, for vertical contact from the front		
size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       M4         of or main contacts       M4         Safety related data       Safety related data         B10 value       000000000000000000000000000000000000		
design of the thread of the connection screw       M4         for main contacts       M4         Safety related data       E10 value         • with high demand rate according to SN 31920       5 000         proportion of dangerous failures       5 000         • with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 FIT         • with low demand rate according to SN 31920       50 FIT         11 value for proof test interval or service life according to IEC 60529       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       E		
• for main contacts       M4         Safety related data       B10 value         • with high demand rate according to SN 31920       5 000         proportion of dangerous failures       5 000         • with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       • with low demand rate according to SN 31920         • with low demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 60529       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       Lenter State	· · · · · · · · · · · · · · · · · · ·	Pozidriv size 2
Safety related data         B10 value         • with high demand rate according to SN 31920       5 000         proportion of dangerous failures         • with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       • with low demand rate according to SN 31920         • with low demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 61529       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       Event for the front according to IEC 60529	-	
B10 value       5 000         proportion of dangerous failures       5 000         with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       • with how demand rate according to SN 31920         • with how demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 61508       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       Event find the front according to IEC 60529		M4
• with high demand rate according to SN 31920       5 000         proportion of dangerous failures       -         • with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       -         • with low demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 60529       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle	Safety related data	
proportion of dangerous failures         • with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       50 %         • with low demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 61508       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front the front         display version for switching status       Handle	B10 value	
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     for with low demand rate according to SN 31920     T1 value for proof test interval or service life according to IEC     f1508     protection class IP on the front according to IEC 60529     touch protection on the front according to IEC 60529     finger-safe, for vertical contact from the front     display version for switching status     Handle	<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000
with high demand rate according to SN 31920 50 % failure rate [FIT]     with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle Certificates/ approvals	proportion of dangerous failures	
failure rate [FIT]       • with low demand rate according to SN 31920       50 FIT         • with low demand rate according to SN 31920       50 FIT         T1 value for proof test interval or service life according to IEC 61508       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle	<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %
with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to IEC 61508 IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle Certificates/ approvals	<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
T1 value for proof test interval or service life according to IEC       10 a         61508       1P20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       Image: safe state	failure rate [FIT]	
T1 value for proof test interval or service life according to IEC       10 a         61508       1P20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       Image: safe state	<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT
protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       IP20		10 a
touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle         Certificates/ approvals       Handle		IP20
display version for switching status Handle Certificates/ approvals		
Certificates/ approvals		
	General Product Approval	For use in hazard-

Subject to change without notice © Copyright Siemens

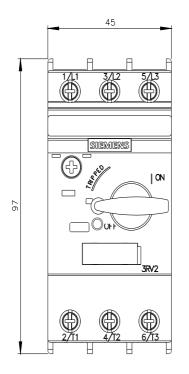
					ous locations
	<u>Confirmation</u>	(h) u	<u>KC</u>	EAC	IECEX
For use in hazard- ous locations	Declaration of Confo	rmity	Test Certificates		Marine / Shipping
ATEX ATEX	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS
Marine / Shipping					other
BUREAU VERITAS	1Å DNV DNV	Lloyds Register urs	PRS	RINA	Household and similar appliances
other		Railway		Environment	
<u>Confirmation</u>	DE	<u>Confirmation</u>	<u>Vibration and Shock</u>	Environmental Con- firmations	
urther information					
https://press.siemens.cc Siemens is working o Please contact your loc EAC relevant market (cc Information on the pa https://support.industry Information- and Dow https://www.siemens.cc Industry Mall (Online https://mall.industry.sie Cax online generator http://support.automatic	other than the sanctioned ckaging .siemens.com/cs/ww/en/v mloadcenter (Catalogs, om/ic10 ordering system) mens.com/mall/en/en/Cat on.siemens.com/WW/CA	e/siemens-wind-down-ru rent EAC certificates. status of validity of the E/ EAEU member states Ru iew/109813875 Brochures,) talog/product?mlfb=3RV2 Korder/default.aspx?lange	AC certification if you intendusia or Belarus).		ply these products to an
https://support.industry	nuals, Certificates, Chai . <u>siemens.com/cs/ww/en/p</u> luct images, 2D dimensi	s/3RV2021-1JA10			

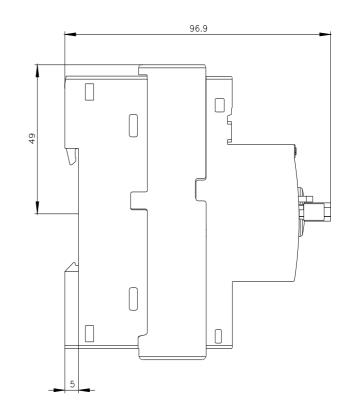
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-1JA10&lang=en

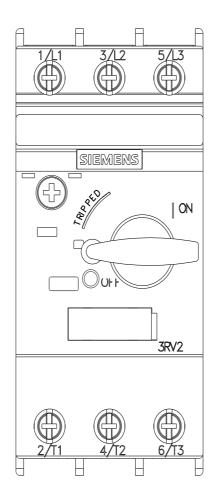
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1JA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1JA10&objecttype=14&gridview=view1

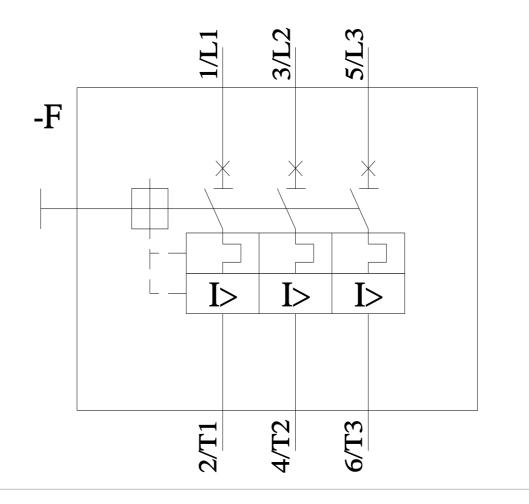






10/30/2023

Subject to change without notice © Copyright Siemens



last modified:

9/1/2023 🖸