## **SIEMENS**

Data sheet 3RV2021-0GA10



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

product designation design of the product product type designation 3RV2  General technical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe Isolation in networks with grounded star point • between main and auxiliary circuit • between main contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code acc. to IEC 81346-2 Q Ambient temperature during operation • ambient temperature during storage • ambient temperature of uring storage • and of the maximum of poles for main current circuit  adjustable curren	product brand name	SIRIUS
product type designation  General technical data  size of the circuit-breaker  size of contactor can be combined company-specific product extension auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state at AC in hot operating state per pole  insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for safe isolation in networks with grounded star point  between main and auxiliary circuit between main and cuxiliary circuit between main and auxiliary circuit between main and cuxiliary circuit be	product designation	Circuit breaker
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value maximum permissible voltage for safe isolation in networks with grounded star point • between main and auxiliary circuit • of auxiliary contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code acc. to IEC 81346-2 Q Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during operation • ambient temperature during transport temperature compensation relative humidity during operation  Main circuit number of poles for main current circuit  20 00 00  yes  S00	design of the product	For motor protection
size of the circuit-breaker  size of contactor can be combined company-specific product extension auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point • between main and auxiliary circuit • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) typical type of protection according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU certificate of suitability according to ATEX directive 2014/34/EU reference code acc. to IEC 81346-2 Q Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport temperature compensation relative humidity during operation  Main circuit number of poles for main current circuit  3	product type designation	3RV2
size of contactor can be combined company-specific product extension auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state	General technical data	
product extension auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for safe isolation in networks with grounded star point between main and auxiliary circuit between main auxiliary	size of the circuit-breaker	S0
power loss [W] for rated value of the current  • at AC in hot operating state  • at AC in hot operating state per pole  insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  690 V  maximum permissible voltage for safe isolation in networks with grounded star point  • between main and auxiliary circuit  • of the main contacts typical  • of the main contacts typical  • of auxiliary contacts typical  • of auxiliary contacts typical  electrical endurance (switching cycles) typical  type of protection according to ATEX directive  2014/34/EU  reference code acc. to IEC 81346-2  Ambient conditions  installation altitude at height above sea level maximum  • ambient temperature during operation  • ambient temperature during storage  • ambient temperature during storage  • ambient temperature during peration  • ambient temperature during storage  • ambient temperature during transport  temperature compensation  -20 +60 °C  relative humidity during operation  -20 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit	size of contactor can be combined company-specific	S00, S0
at AC in hot operating state at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for safe isolation in networks with grounded star point between main and auxiliary circuit betwee	product extension auxiliary switch	Yes
at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for safe isolation in networks with grounded star point  between main and auxiliary circuit  alou V  between main and auxiliary circuit  between main and auxiliary circuit  alou V  between main and auxiliary circuit  alou V  between main and auxiliary circuit  alou V	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for safe isolation in networks with grounded star point  • between main and auxiliary circuit • of the main contacts typical • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2 Q  Ambient conditions installation altitude at height above sea level maximum  • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport  -50 +80 °C  temperature compensation -20 +60 °C relative humidity during operation -10 95 %  Main circuit number of poles for main current circuit  3	<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
value  surge voltage resistance rated value  maximum permissible voltage for safe isolation in networks with grounded star point  • between main and auxiliary circuit • obtween main auxiliary circuit •	at AC in hot operating state per pole	2.4 W
maximum permissible voltage for safe isolation in networks with grounded star point  • between main and auxiliary circuit • between main and auxiliary circuit 400 V  shock resistance acc. to IEC 60068-2-27 25g / 11 ms  mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical 100 000  electrical endurance (switching cycles) typical type of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2 Q  Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport • abo °C • ambient temperature during transport relative humidity during operation 10 95 %  Main circuit number of poles for main current circuit  3	0 0 1	690 V
networks with grounded star point  • between main and auxiliary circuit  • between main and auxiliary circuit  • between main and auxiliary circuit  shock resistance acc. to IEC 60068-2-27  mechanical service life (switching cycles)  • of the main contacts typical  • of auxiliary contacts typical  • of auxiliary contacts typical  electrical endurance (switching cycles) typical  type of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2  Q  Ambient conditions  installation altitude at height above sea level maximum  • ambient temperature during operation  • ambient temperature during storage  • ambient temperature during transport  -50 +80 °C  • ambient temperature during transport  -50 +80 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  3	surge voltage resistance rated value	6 kV
between main and auxiliary circuit     shock resistance acc. to IEC 60068-2-27     25g / 11 ms  mechanical service life (switching cycles)     of the main contacts typical     of auxiliary contacts typical     electrical endurance (switching cycles) typical     type of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2  Q  Ambient conditions  installation altitude at height above sea level maximum      ambient temperature during operation     ambient temperature during storage     ambient temperature during storage     ambient temperature during transport  temperature compensation  relative humidity during operation  place in the solution of the solut		
shock resistance acc. to IEC 60068-2-27  mechanical service life (switching cycles)  of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical type of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2  Ambient conditions installation altitude at height above sea level maximum  ambient temperature during operation ambient temperature during storage ambient temperature during transport  temperature compensation -20 +60 °C temperature compensation -20 +60 °C relative humidity during operation -20 +60 °C relative humidity during operation -20 +60 °C relative humidity during operation -20 +60 °C  relative humidity during operation -20 +60 °C  relative humidity during operation -20 +60 °C  relative number of poles for main current circuit  3	<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
mechanical service life (switching cycles)  • of the main contacts typical  • of auxiliary contacts typical  electrical endurance (switching cycles) typical  type of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 20	<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
of the main contacts typical     of auxiliary contacts typical     electrical endurance (switching cycles) typical     type of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2  Q  Ambient conditions  installation altitude at height above sea level maximum      o ambient temperature during operation     o ambient temperature during storage     o ambient temperature during transport  temperature compensation  relative humidity during operation  possible for main current circuit  100 000  Ex II (2) GD  DMT 02 ATEX F 001  DMT 02 ATEX F 001  2 000 m  2 000 m  2 000 m  - 20 +60 °C  - 50 +80 °C  - 50 +80 °C  - 50 +80 °C  - 10 +90 °C  - 10	shock resistance acc. to IEC 60068-2-27	25g / 11 ms
of auxiliary contacts typical electrical endurance (switching cycles) typical  type of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2  Q  Ambient conditions installation altitude at height above sea level maximum      o ambient temperature during operation     o ambient temperature during storage     o ambient temperature during transport  temperature compensation  relative humidity during operation  100 000  EX II (2) GD  DMT 02 ATEX F 001  2 OU  C  C  C  C  C  C  C  C  C  C  C  C  C	mechanical service life (switching cycles)	
electrical endurance (switching cycles) typical  type of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2  Q  Ambient conditions installation altitude at height above sea level maximum  • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport  -50 +80 °C  • ambient temperature during transport  -20 +60 °C  relative humidity during operation  -20 +60 °C  10 95 %  Main circuit  number of poles for main current circuit  3	<ul> <li>of the main contacts typical</li> </ul>	100 000
type of protection according to ATEX directive 2014/34/EU  certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2  Q  Ambient conditions installation altitude at height above sea level maximum 2 000 m  • ambient temperature during operation -20 +60 °C  • ambient temperature during storage -50 +80 °C  • ambient temperature during transport -50 +80 °C  temperature compensation -20 +60 °C  relative humidity during operation -20 +60 °C  main circuit -20 +60 °C  ambient temperature during transport -50 +80 °C	of auxiliary contacts typical	100 000
certificate of suitability according to ATEX directive 2014/34/EU  reference code acc. to IEC 81346-2  Ambient conditions installation altitude at height above sea level maximum  • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport  • ambient temperature during transport  -50 +80 °C  temperature compensation -20 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  3	electrical endurance (switching cycles) typical	100 000
reference code acc. to IEC 81346-2  Ambient conditions installation altitude at height above sea level maximum  • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport • ambient temperature during transport -50 +80 °C  temperature compensation -20 +60 °C  relative humidity during operation 10 95 %  Main circuit  number of poles for main current circuit  3		Ex II (2) GD
Ambient conditions  installation altitude at height above sea level maximum  • ambient temperature during operation • ambient temperature during storage • ambient temperature during storage • ambient temperature during transport • 50 +80 °C  temperature compensation -20 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  3		DMT 02 ATEX F 001
installation altitude at height above sea level maximum  • ambient temperature during operation  • ambient temperature during storage  • ambient temperature during transport  • ambient temperature during transport  -50 +80 °C  temperature compensation  -20 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  3	reference code acc. to IEC 81346-2	Q
<ul> <li>ambient temperature during operation</li> <li>ambient temperature during storage</li> <li>ambient temperature during transport</li> <li>ambient temperature during transport</li> <li>-50 +80 °C</li> <li>temperature compensation</li> <li>-20 +60 °C</li> <li>relative humidity during operation</li> <li>10 95 %</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>3</li> </ul>	Ambient conditions	
<ul> <li>ambient temperature during storage</li> <li>ambient temperature during transport</li> <li>ambient temperature during storage</li> <li>amb</li></ul>	installation altitude at height above sea level maximum	2 000 m
<ul> <li>◆ ambient temperature during transport</li> <li>-50 +80 °C</li> <li>temperature compensation</li> <li>-20 +60 °C</li> <li>relative humidity during operation</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>3</li> </ul>	<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C
temperature compensation -20 +60 °C relative humidity during operation 10 95 %  Main circuit number of poles for main current circuit 3	<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C
relative humidity during operation 10 95 %  Main circuit  number of poles for main current circuit 3	ambient temperature during transport	-50 +80 °C
Main circuit  number of poles for main current circuit  3	temperature compensation	-20 +60 °C
number of poles for main current circuit 3	relative humidity during operation	10 95 %
·	Main circuit	
adjustable current response value current of the 0.45 0.63 A	number of poles for main current circuit	3
	adjustable current response value current of the	0.45 0.63 A

690 V
690 V
50 60 Hz
0.63 A
0.63 A
90 W
180 W
180 W
250 W
15 1/h
0
0
0
No
Yes
CLASS 10
thermal
100 kA
100 kA
100 kA
100 kA
100 kA
100 kA
100 kA
100 kA
8.2 A
0.63 A
0.63 A
Yes
magnetic
any
screw and snap-on mounting onto 35 mm standard mounting rail
according to DIN EN 60715
97 mm
45 mm
97 mm
30 mm
30 mm
9 mm
9 mm
9 mm 30 mm



at the side • for live parts at 500 V downwards upwards at the side • for grounded parts at 590 V downwards upwards bordwards upwards backwards upwards backwards upwards to wards to man to man current circuit to man current circuit to man current circuit to man current circuit solid or stranded finely stranded with core end processing to ward cables for main contacts solid or stranded finely stranded with core end processing to ward cables for main contacts to ward ward ward ward with screw-type terminals to ward ward ward ward ward ward ward ward	General Product Approval		hazardous
of rolive parts at 500 V			I UI USE III
• for live parts at 500 V  - downwards - upwards - at the side • for grounded parts at 690 V  - downwards - backwards - upwards - at the side - on m  - at the side - for wards - on m  - at the side - forwards - on m  - or wards - on m  - or wards - upwards - on m  - or main contacts - or main contacts - for wards - on m  - or main contacts - or main contacts - or wards - or main contacts - or main co			For use in
for live parts at 500 V         downwards	Certificates/ approvals		
for live parts at 500 V         downwards		-	
of rolive parts at 500 V     odownwards     oupwards     out the side     of for grounded parts at 690 V     odownwards     oupwards     oupwards     oupwards     oupwards     oupwards     oupwards     oupwards     oupwards     out the side     out the side     out of live parts at 690 V     outwards     outwar	touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
for live parts at 500 V         downwards	protection class IP on the front acc. to IEC 60529	IP20	
of for live parts at 500 V         downwards		10 у	
• for live parts at 500 V         — downwards			
• for live parts at 500 V         — downwards	failure rate [FIT]		
• for live parts at 500 V         — downwards         — upwards         — at the side         • for grounded parts at 690 V         — downwards         — upwards         — upwards         — upwards         — upwards         — upwards         — backwards         — backwards         — the side         — forwards         — for live parts at 690 V         — downwards         • for live parts at 690 V         — downwards         — upwards         • for live parts at 690 V         — downwards         — upwards         — upwards         — upwards         — upwards         — backwards         — upwards         — backwards         — at the side         — forwards         — o mm         — backwards         — o mm         — backwards         — what is side         — forwards         — forwards         — o mm  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  type of electrical connection         • for main current circuit  type of connectable conductor cross-sections         • for main cortacts         — solid or stranded         — finely stranded with core end processing         • at AWG cables for main contacts         • tightening torque for main contacts         • tightening torque for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver shaft size of the screwdriver shaft size of the screwdriver tip  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw         • for main contacts         — for main contacts          — for main contacts          — to fine main	• with high demand rate acc. to SN 31920	50 %	
• for live parts at 500 V  — downwards — upwards — at the side 9 mm  • for grounded parts at 690 V  — downwards 50 mm — upwards — backwards — at the side 9 mm  • for live parts at 690 V  — downwards 50 mm — backwards — forwards • for live parts at 690 V  — downwards 50 mm  • for live parts at 690 V  — downwards 50 mm  • for live parts at 690 V  — downwards — backwards — upwards — backwards — upwards — backwards — onm  • onm  • for main contacts  product function removable terminal for auxiliary and control circuit  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 — finely stranded with core end processing • at AWG cables for main contacts with screw-type terminals  design of screwdriver shaft bloships the finely stranded become to the finely stranded become to the finely stranded of the connection screw • for main contacts  Aux (1 2,5 mm²), 2x (2,5 10 mm²) 2x (1 2,5 mm²), 2x (2,5 6 mm²), 1x 10 mm² 2x (1 12), 2x (14 8)  2x (1 12), 2x (14 8)  Diameter 5 to 6 mm  Pozidriv 2  design of the thread of the connection screw • for main contacts  M4  Safety related data  B10 value • with high demand rate acc. to SN 31920  5 000		50 %	
of r live parts at 500 V         — downwards			
• for live parts at 500 V	• with high demand rate acc. to SN 31920	5 000	
• for live parts at 500 V  — downwards — upwards — at the side 9 mm  • for grounded parts at 690 V — downwards 50 mm  — backwards — upwards — backwards — forwards 0 mm  • for live parts at 690 V — downwards 50 mm  — at the side — forwards 0 mm  • for live parts at 690 V — downwards 50 mm  • for live parts at 690 V — downwards 50 mm  • for live parts at 690 V — downwards — upwards — backwards — upwards — backwards — at the side — forwards 0 mm  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit  screw-type terminals  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts  • tightening torque for main contacts  • tightening torque for main contacts with screw-type terminals  design of screwdriver shaft size of the screwdriver shaft  Diameter 5 to 6 mm  Pozidriv 2  design of the thread of the connection screw • for main contacts  • for main contacts	B10 value		
of rilive parts at 500 V         — downwards         — upwards         — at the side     of ror grounded parts at 690 V         — downwards         — upwards         — upwards         — upwards         — backwards         — backwards         — the side         — forwards         — forwards         — of ror live parts at 690 V         — downwards         — at the side         — forwards         — of row live parts at 690 V         — downwards         — ownwards         — ownwards         — upwards         — upwards         — backwards         — upwards         — backwards         — at the side         — on mm         — backwards         — at the side         — on mm         — backwards         — at the side         — on mm         — forwards         — on mm  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  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         — finely stranded with core end processing         • at AWG cables for main contacts          • tightening torque for main contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver shaft  bizer of the screwdriver shaft  bizer of the screwdriver tip  design of the thread of the connection screw	Safety related data		
• for live parts at 500 V — downwards — upwards — at the side 9 mm  • for grounded parts at 690 V — downwards — upwards 50 mm — backwards — backwards — at the side 9 mm  • for live parts at 690 V — downwards 50 mm  — backwards — of for live parts at 690 V — downwards • for live parts at 690 V — downwards 50 mm  • for wards • for live parts at 690 V — downwards — upwards — upwards — upwards — backwards — upwards — backwards — of mm  — backwards — of mm  • for wards — of mm  • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts with screw-type elightening torque for main contacts with screw-type elig	• for main contacts	M4	
• for live parts at 500 V  — downwards — upwards — at the side 9 mm  • for grounded parts at 690 V — downwards — backwards — backwards — forwards — for live parts at 690 V — downwards — for live parts at 690 V — downwards — for live parts at 690 V — downwards — on m  • for live parts at 690 V — downwards — backwards — upwards — backwards — upwards — backwards — on m  • formain sometions/ Terminals  product function removable terminal for auxiliary and control circuit  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 — finely stranded with core end processing • at AWG cables for main contacts with screw-type terminals  design of screwdriver shaft  Diameter 5 to 6 mm	design of the thread of the connection screw		
• for live parts at 500 V  - downwards - upwards - at the side 9 mm  • for grounded parts at 690 V  - downwards - upwards - upwards - upwards - backwards - backwards - for live parts at 690 V  - downwards - for live parts at 690 V  - downwards - for live parts at 690 V  - downwards - upwards - for live parts at 690 V  - downwards - upwards - upwards - upwards - upwards - backwards - at the side - forwards - o mm  - tat the side - forwards - o mm  - torwards - o mm  - torwards - o mm  - forwards - o mm  - forwards - o mm  - forwards - formarids - for main current circuit  - for main current circuit  - for main current circuit  - for main current directions - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts with screw-type terminals  • tightening torque for main contacts with screw-type terminals  - 2 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - 2 2.5 N·m	size of the screwdriver tip	Pozidriv 2	
• for live parts at 500 V  - downwards  - upwards  - at the side  • for grounded parts at 690 V  - downwards  - upwards  - upwards  - upwards  - upwards  - upwards  - backwards  - at the side  - for vards  • for live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  - upwards  - backwards  - upwards  - backwards  - upwards  - backwards  - at the side  - for man  - the side  - for man current circuit  type of electrical connection  • for main current circuit  type of connectable conductor cross-sections  • for main contacts  - solid or stranded  - finely stranded with core end processing  • at AWG cables for main contacts  • tightening torque for main contacts with screw-type  2 2.5 N-m  30 mm  9	design of screwdriver shaft	Diameter 5 to 6 mm	
• for live parts at 500 V  - downwards  - upwards  - at the side  • for grounded parts at 690 V  - downwards  - upwards  - backwards  - at the side  - forrwards  • for live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  - upwards  - upwards  - upwards  - upwards  - backwards  - upwards  - backwards  - upwards  - backwards  - onm  - onmetions/ Terminals   product function removable terminal for auxiliary and control circuit  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  - finely stranded with core end processing  • at AWG cables for main contacts  - 2x (1 2,5 mm²), 2x (2,5 10 mm²)  - 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 (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 (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 (2,5 6 mm²), 1x 10 mm²  - x 1 2x 1 .	<ul> <li>tightening torque for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m	
• for live parts at 500 V  - downwards  - upwards  - at the side  • for grounded parts at 690 V  - downwards  - upwards  - upwards  - upwards  - backwards  - at the side  - forwards  - backwards  - onm  • for live parts at 690 V  - downwards  • for live parts at 690 V  - downwards  - upwards  • for live parts at 690 V  - downwards  - upwards  - upwards  - backwards  - upwards  - backwards  - onm  - at the side  - forwards  - onm  - onmations/ Terninals  product function removable terminal for auxiliary and control circuit  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  2x (1 2,5 mm²), 2x (2,5 10 mm²)			
for live parts at 500 V         — downwards         — upwards         — at the side         • for grounded parts at 690 V         — downwards         — upwards         — upwards         — upwards         — upwards         — backwards         — backwards         — at the side         — forwards         — of for live parts at 690 V         — downwards         • for live parts at 690 V         — downwards         — upwards         — upwards         — upwards         — upwards         — upwards         — backwards         — upwards         — backwards         — at the side         — at the side         — forwards         — at the side         — forwards         — or mm         — at the side         — forwards         — or mm         — forwards         — or mm         — to mm  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  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	<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
for live parts at 500 V         — downwards	<ul><li>— solid or stranded</li></ul>	2x (1 2,5 mm²), 2x (2,5 10 mm²)	
for live parts at 500 V         — downwards         — upwards         — at the side         • for grounded parts at 690 V         — downwards         — upwards         — upwards         — upwards         — backwards         — backwards         — at the side         — forwards         — for live parts at 690 V         — downwards         — for live parts at 690 V         — downwards         — upwards         — upwards         — on mm         — at the side         — on mm         — at the side         — upwards         — upwards         — upwards         — backwards         — upwards         — at the side         — on mm         — at the side         — on mm         — orwards         — on mm         — orwards         — on mm         — ormands         — rorwards         — on mm         — ormands         — rorwards         — on mm  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  type of electrical connection         • for main current circuit  arrangement of electrical connectors for main current circuit  Top and bottom	• for main contacts		
for live parts at 500 V         — downwards         — upwards         — at the side         • for grounded parts at 690 V         — downwards         — upwards         — upwards         — upwards         — backwards         — backwards         — at the side         — forwards         — for live parts at 690 V         — downwards         — for live parts at 690 V         — downwards         — upwards         — upwards         — on mm         — at the side         — on mm         — at the side         — upwards         — upwards         — upwards         — backwards         — upwards         — at the side         — on mm         — at the side         — on mm         — orwards         — on mm         — orwards         — on mm         — ormands         — rorwards         — on mm         — ormands         — rorwards         — on mm  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  type of electrical connection         • for main current circuit  arrangement of electrical connectors for main current circuit  Top and bottom	type of connectable conductor cross-sections		
for live parts at 500 V         — downwards	circuit		
• for live parts at 500 V     — downwards			
for live parts at 500 V         — downwards		screw-type terminals	
for live parts at 500 V         — downwards			
<ul> <li>for live parts at 500 V</li> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> <li>9 mm</li> <li>for grounded parts at 690 V</li> <li>— downwards</li> <li>— upwards</li> <li>— upwards</li> <li>— backwards</li> <li>— at the side</li> <li>— forwards</li> <li>for live parts at 690 V</li> <li>— downwards</li> <li>— for live parts at 690 V</li> <li>— downwards</li> <li>— upwards</li> <li>— upwards</li> <li>— upwards</li> <li>— upwards</li> <li>— backwards</li> <li>— backwards</li> <li>— backwards</li> <li>— o mm</li> <li>— at the side</li> <li>— at the side</li> <li>— o mm</li> <li>— at the side</li> <li>— at the side</li> <li>— o mm</li> </ul>		No	
<ul> <li>for live parts at 500 V         <ul> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>at the side</li> <li>for live parts at 690 V</li> </ul> </li> <li>for live parts at 690 V</li> <li>downwards</li> <li>mm</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>o mm</li> </ul> <li>backwards</li> <li>mm</li> <li>backwards</li> <li>o mm</li> <li>at the side</li> <li>30 mm</li>	Connections/ Terminals		
<ul> <li>for live parts at 500 V         <ul> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>at the side</li> <li>for wards</li> <li>o mm</li> </ul> </li> <li>for live parts at 690 V</li> <li>downwards</li> <li>mm</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>backwards</li> <li>o mm</li> </ul>		0 mm	
<ul> <li>for live parts at 500 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>at the side</li> <li>o mm</li> <li>at the side</li> <li>forwards</li> <li>o mm</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>for live parts at 690 V</li> <li>upwards</li> <li>50 mm</li> <li>for live parts at 690 V</li> <li>upwards</li> <li>50 mm</li> </ul>		30 mm	
<ul> <li>for live parts at 500 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>at the side</li> <li>for wards</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>50 mm</li> <li>mm</li> <li>o mm</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>50 mm</li> </ul>	— backwards	0 mm	
<ul> <li>for live parts at 500 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>at the side</li> <li>for wards</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>50 mm</li> <li>mm</li> <li>o mm</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>50 mm</li> </ul>			
<ul> <li>for live parts at 500 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>at the side</li> <li>o mm</li> <li>at the side</li> <li>forwards</li> <li>o mm</li> </ul>			
<ul> <li>for live parts at 500 V</li> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> <li>for grounded parts at 690 V</li> <li>— downwards</li> <li>— upwards</li> <li>— upwards</li> <li>— backwards</li> <li>— backwards</li> <li>— at the side</li> <li>— forwards</li> <li>0 mm</li> <li>0 mm</li> </ul>			
<ul> <li>for live parts at 500 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>backwards</li> <li>at the side</li> <li>30 mm</li> <li>50 mm</li> <li>up ackwards</li> <li>mm</li> <li>at the side</li> <li>30 mm</li> </ul>		0 mm	
<ul> <li>for live parts at 500 V</li> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> <li>9 mm</li> <li>for grounded parts at 690 V</li> <li>— downwards</li> <li>— upwards</li> <li>50 mm</li> <li>— upwards</li> <li>50 mm</li> </ul>	— at the side		
<ul> <li>for live parts at 500 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>50 mm</li> </ul>	— backwards	0 mm	
<ul> <li>for live parts at 500 V</li> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> <li>for grounded parts at 690 V</li> </ul> 30 mm 9 mm	— upwards	50 mm	
<ul> <li>for live parts at 500 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>30 mm</li> <li>9 mm</li> </ul>	— downwards	50 mm	
<ul> <li>for live parts at 500 V</li> <li>— downwards</li> <li>— upwards</li> <li>30 mm</li> <li>30 mm</li> </ul>	<ul> <li>for grounded parts at 690 V</li> </ul>		
◆ for live parts at 500 V     — downwards	— at the side	9 mm	
• for live parts at 500 V	•	30 mm	
	— downwards	30 mm	
— at the side 9 mm	• for live parts at 500 V		
	— at the side	9 mm	
— upwards 30 mm	— upwards	30 mm	
— downwards 30 mm	— downwards	30 mm	
• for grounded parts at 500 V	<ul> <li>for grounded parts at 500 V</li> </ul>		













For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping



**Miscellaneous** 



Type Test Certificates/Test Report Special Test Certificate



## Marine / Shipping













other

Railway

Confirmation



Vibration and Shock

Confirmation

## 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=3RV2021-0GA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-0GA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0GA10

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-0GA10&lang=en

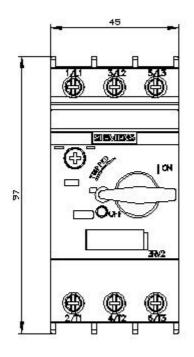
Characteristic: Tripping characteristics, I²t, Let-through current

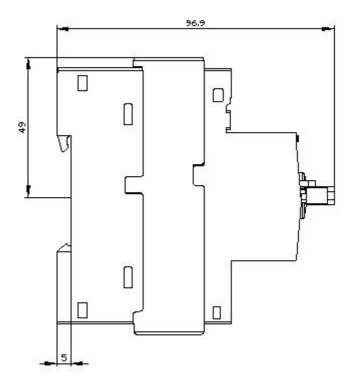
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0GA10/char

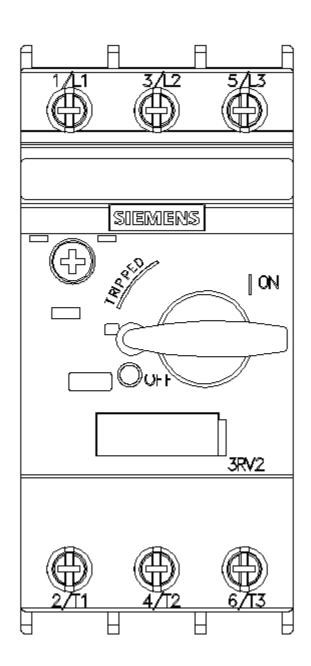
Further characteristics (e.g. electrical endurance, switching frequency)

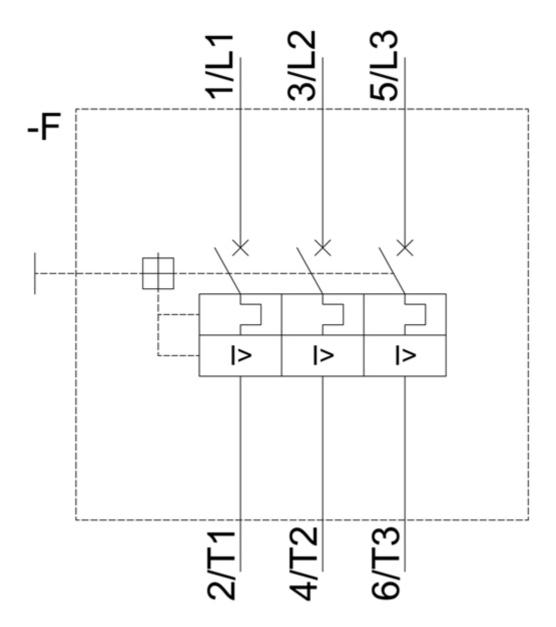
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0GA10&objecttype=14&gridview=view1











last modified: 12/15/2020 ☑