## **SIEMENS**

Data sheet 3RV2021-0GA25



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 with transverse auxiliary switches 1 NO+1 NC

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	
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	0.45 0.63 A	
operating voltage		
rated value	20 690 V	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
• at AC-3e rated value maximum	690 V	

Operational current rated value	onerating frequency reted value	50 60 Hz
operational current	operating frequency rated value	
	<u> </u>	0.00 A
e at AC-2e at 400 V rated value  operating power  - at 200 V rated value  - at 400 V rated value  - at 600 V rated value  - a	•	0.02 A
Operating power   * st AC-3		
** at AC-3		U.03 A
at 230 V reted value at 400 V reted value at 500 V reted value at 230 V reted value at 500 V reted value at 600 V reted value at		
		0.4 130/
— at 500 V rated value		******
■ at AC-3e		
		U.3 KW
at 400 V rated value		
— at 500 V rated value		
operating frequency  • at AC-3 maximum  • at AC-15 maximing ventacts  • at AC-15 mumber of NC contacts for auxiliary contacts  • at AC-15 mumber of CO contacts for auxiliary contacts  • at AC-15 mumber of CO contacts for auxiliary contacts  • at 24 v • at 120 v • at 120 v • at 125 v • at 230 v • operational current of auxiliary contacts at DC-13 • at 24 v • at 60 v • at 60 v • protective and monitoring functions  product function • ground fault detection • ground fault detec		
operating frequency	— at 500 V rated value	
at AC-3 maximum at AC-3 maximum by at AC-3e maximum at AC-3e maximum by at AC-3e maxi		0.3 kW
e at AC-3e maximum  Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 e at 24 V at 120 V e at 125 V observed on the served of the ser		
Auxiliary circuit   design of the auxiliary switch   transverse	• at AC-3 maximum	15 1/h
design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V • at 120 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V 1 A • at 80 V operational current of auxiliary contacts at DC-13 • at 24 V 1 A • at 80 V  Protective and monitoring functions  product function • ground fault detection • phase 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 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 690 V rated value • at AC at 690 V rated value • at 400 V r	at AC-3e maximum	15 1/h
number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts 2 operational current of auxiliary contacts at AC-15 at 24 V 2, at 120 V 0,5 A at 125 V 0,5 A out 230 V operational current of auxiliary contacts at DC-13 at 24 V 1, at 60 V 0,5 A out 60 V operational current of auxiliary contacts at DC-13 at 24 V 1, at 60 V 0,5 A out 60 V operational current of auxiliary contacts at DC-13 at 24 V 1, at 60 V 0,15 A  Protective and monitoring functions product function ground fault detection Yes trip class CLASS 10 therefore the coverload release 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 400 V rated value at AC at 650 V rated value at AC at 650 V rated value at AC at 650 V rated value at AC at 400 V rated value at AC at 400 V rated value at AC at 400 V rated value at 600	Auxiliary circuit	
number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts 2 operational current of auxiliary contacts at AC-15 at 24 V 2, at 120 V 0,5 A at 125 V 0,5 A out 230 V operational current of auxiliary contacts at DC-13 at 24 V 1, at 60 V 0,5 A out 60 V operational current of auxiliary contacts at DC-13 at 24 V 1, at 60 V 0,5 A out 60 V operational current of auxiliary contacts at DC-13 at 24 V 1, at 60 V 0,15 A  Protective and monitoring functions product function ground fault detection Yes trip class CLASS 10 therefore the coverload release 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 400 V rated value at AC at 650 V rated value at AC at 650 V rated value at AC at 650 V rated value at AC at 400 V rated value at AC at 400 V rated value at AC at 400 V rated value at 600	design of the auxiliary switch	transverse
number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15  • at 24 V • at 125 V • at 125 V • at 230 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 230 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V  operational current of auxiliary contacts at DC-13 • at 60 V  operational current of auxiliary contacts at DC-13 • at 60 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V  operational current of auxiliary contacts at DC-13 • Available of a C available of available of a C avai		1
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15  at 24 V  at 120 V  bat 125 V  cat 230 V  operational current of auxiliary contacts at DC-13  at 24 V  at 230 V  operational current of auxiliary contacts at DC-13  at 24 V  at 60 V  Protective and monitoring functions  product function  ground fault detection  phase failure detection  proake failure detection  Act 24 20 V rated value  at AC at 240 V rated value  at AC at 240 V rated value  at AC at 500 V rated value  at 400 V rated value  at 400 V rated value  at 500 V rated value  at 600 V rated val		1
operational current of auxillary contacts at AC-15  • at 24 V  • at 125 V  • at 230 V  • obs A  • at 24 V  • at 60 V  • at 60 V  • obs A		0
at 125 V at 230 V  perational current of auxiliary contacts at DC-13 at 24 V at 60 V  Totective and monitoring functions  product function a pround fault detection by phase failure detection classing 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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at AC at 500 V rated value breaking capacity operating short-circuit current (Ics) at AC at 500 V rated value breaking capacity operating short-circuit current (Ics) at AC at 500 V rated value breaking capacity operating short-circuit current (Ics) at AC at 500 V rated value breaking capacity operating short-circuit current (Ics) at AC at 500 V rated value at 400 V rated value 100 kA at 690 V rated value 00 kA at 690 V rated value 00 kA at 690 V rated value 100 kA cresponse 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 contact rating of auxiliary contacts according to UL  Short-circuit protection product function short circuit protection 4 design of the short-circuit trip 4 magnetic		2 A
at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V 0.15 A  Protective and monitoring functions  product function a phase failure detection breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 400 V rated value at AC at 500 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 600 V rated v	● at 120 V	0.5 A
operational current of auxilliary contacts at DC-13  • at 24 V • at 60 V  Protective and monitoring functions  product function • ground fault detection • prase failure detection • prase failure detection • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • product function  • product function  • at CASS 10  design of the overload release  thermal  breaking capacity maximum short-circuit current (Icu)  • at AC at 400 V rated value  • at AC at 500 V rated value  • at Cat 690 V rated value  • at 400 V rated value  • at 400 V rated value  • at 400 V rated value  • at 690 V rated value  •	• at 125 V	0.5 A
operational current of auxiliary contacts at DC-13  • at 24 V • at 60 V  Protective and monitoring functions  product function • ground fault detection • prase failure detection • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • prase failure detection  • product function  • product function  • at AC at 240 V rated value  • 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 400 V rated value  • at 400 V rated value  • at 400 V rated value  • at 690 V rated value  •	• at 230 V	0.5 A
at 24 V at 60 V  brotective and monitoring functions  product function  ground fault detection  pround fault detection  product function  ground fault detection  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 690 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  at 400 V rated value  100 kA  at 460 V rated value  100 kA  at 690 V rated value  100 kA  100		
• at 60 V  Protective and monitoring functions  product function • ground fault detection • phase failure detection  • phase failure detection  • phase failure detection  • phase failure detection  • phase failure detection  • phase failure detection  • phase 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 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value  • at AC at 699 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 • at 690 V rated value • at 690 V rated value • at 600 V rated value  • at 600 V rated value  • at 480 V rated value • at 600 V rated va		1 A
Protective and monitoring functions  product function  • ground fault detection  • phase failure 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 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  • at 240 V rated value  • at 500 V rated value  • at 690 V rated value  • at 690 V rated value  • at 480 V rated value  • at 690 V rated value  • at 6		
product function • ground fault detection • phase failure detection • phase 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 400 V rated value • at AC at 500 V rated value • at AC at 690 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  punit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at		0.00.
ground fault detection     phase failure detection     Yes  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 400 V rated value     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 600 V rated value     at 82 A     unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value     o.63 A     contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit trip  magnetic		
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 400 V rated value  at AC at 500 V rated value  at AC at 690 V rated value  at AC at 690 V rated value  at AC at 240 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 690 V rated value  at 82 A  breaking capacity operating short-circuit trip unit  breaking capacity operating short-circuit trip  at 240 V rated value  at 800 V rated value  at 82 A  contact 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  at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  yes  design of the short-circuit trip  magnetic	•	No
trip class  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 690 V rated value  at AC at 690 V rated value  at AC  at 240 V rated value  at AC  at 240 V rated value  at AC  at 240 V rated value  at 400 V rated value  at 400 V rated value  at 690 V rated value  cortact ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 690 V rated value  at 690 V rated value  cortact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit trip  magnetic	9	
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 • at AC at 690 V rated value • at AC at 690 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 • at 400 V rated value  100 kA • at 690 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 • at 600 V rated val		
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  breaking capacity operating short-circuit current (Ics) at AC  • at 240 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 • at 690 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 • at 600 V rated value • at 600 V rated value  of AC  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  magnetic		
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 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 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 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 consistent of a current of instantaneous short-circuit trip consistent operation operation operation of the short-circuit trip consistent operation ope		trermai
at AC at 400 V rated value 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 100 kA  at 240 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  at 690 V rated value 100 kA  breaking capacity operating short-circuit trip unit 100 kA  at 690 V rated value 100 kA  contact rating of auxiliary contacts according to UL  Short-circuit protection product function short circuit trip magnetic  100 kA  10		400 1-4
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 500 V rated value  at 690 V rated value  at 690 V rated value  too 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  at 690 V rated value  50.63 A  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit trip  design of the short-circuit trip  magnetic  100 kA  100		
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 500 V rated value     at 690 V rated value     at 690 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     o.63 A     at 600 V rated value     o.63 A     contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  magnetic  100 kA  10		
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  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  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit trip  design of the short-circuit trip  magnetic		
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  at 600 V rated value  contact rating of auxiliary contacts according to UL  C300 / R300  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  magnetic		100 KA
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		
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>o.63 A</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> </ul> </li> <li>100 kA</li> <li>100</li></ul>		100 kA
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  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  magnetic		
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     contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  100 kA  8.2 A  108 A  0.63 A  0.63 A  C300 / R300  Short-circuit protection  Yes  design of the short-circuit trip  magnetic		
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  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  ### 8.2 A  8.2 A  8.2 A  8.2 A		
unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  magnetic		
## DUL/CSA ratings    full-load current (FLA) for 3-phase AC motor   • at 480 V rated value		0.2 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  yes  magnetic		
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>0.63 A</li> <li>C300 / R300</li> <li>Yes</li> <li>magnetic</li> </ul>		
at 600 V rated value     contact rating of auxiliary contacts according to UL     Short-circuit protection     product function short circuit protection     design of the short-circuit trip     magnetic		0.63 A
contact rating of auxiliary contacts according to UL  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  C300 / R300  Yes  magnetic		
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  magnetic		
product function short circuit protection  design of the short-circuit trip  Yes  magnetic		C300 / R300
design of the short-circuit trip magnetic		
design of the fuse link		magnetic
	design of the fuse link	

<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
·	ות ידי או
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	45 mm
depth	97 mm
required spacing	
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	30 mm
— 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
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (1 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1 6 mm²)
at AWG cables for main contacts	2x (18 8)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²)
at AWG cables for auxiliary contacts	2x (20 14)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	3,0 x 0,5 mm
Safety related data	

<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
failure rate [FIT]	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 y
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

## **General Product Approval**





Confirmation



<u>KC</u>



For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 







Type Test Certificates/Test Report

**Special Test Certific-**<u>ate</u>

## Marine / Shipping













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=3RV2021-0GA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-0GA25

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0GA25

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-0GA25&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0GA25/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0GA25&objecttype=14&gridview=view1

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