## **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
<ul> <li>at AC in hot operating state per pole</li> </ul>	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 (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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-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	0.45 0.63 A
current-dependent overload release	
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	0.63 A

operational ourrant	
<ul><li>operational current</li><li>at AC-3 at 400 V rated value</li></ul>	0.63 A
at AC-3 at 400 V rated value      at AC-3e at 400 V rated value	0.63 A
operating power	0.00 A
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.2 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.2 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
operating frequency	
<ul><li>at AC-3 maximum</li></ul>	15 1/h
<ul> <li>at AC-3e maximum</li> </ul>	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
● at 60 V	0.15 A
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	100 1-4
at AC at 400 V rated value	100 kA
<ul> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> </ul>	100 kA 100 kA
at AC at 690 V rated value     at AC at 690 V rated value	100 KA 100 kA
	100 KA
operating short-circuit current breaking capacity (Ics) at AC	
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
response value current of instantaneous short-circuit trip	8.2 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.63 A
at 600 V rated value	0.63 A
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
for short-circuit protection of the auxiliary switch	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
required	Ik < 400 A)
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN

No.   10 mm		60715
width depth parts at 400 V - for grounded parts at 400 V - commands - at the side - to the parts at 400 V - commands - to the parts at 400 V - commands - to the parts at 400 V - commands - to the parts at 400 V - commands - to the parts at 400 V - commands - at the side - to grounded parts at 500 V - commands - at the side - to grounded parts at 500 V - commands - at the side - to the parts at 500 V - commands - at the side - to the parts at 500 V - commands - at the side - to the parts at 500 V - commands - at the side - to the parts at 500 V - commands - at the side - to the parts at 500 V - commands - at the side - to the parts at 500 V - commands - to the side - side side side - to the side - side side side - to the side - side side - side side - side side side - side side - side side - side s	height	
April 1   April 2   Apri	_	
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— af the side		
• for live parts at 400 V	•	
downwards		·
upwards		30 mm
- at the side		
• for grounded parts at 500 V     — downwards	·	
downwards		
at the side - for live parts at 500 V downwards upwards upwards at the side of or grounded parts at 690 V downwards backwards at the side forwards downwards forwards forwards forwards forwards downwards forwards forw		30 mm
at the side - for live parts at 500 V downwards upwards upwards at the side of or grounded parts at 690 V downwards backwards at the side forwards downwards forwards forwards forwards forwards downwards forwards forw	— upwards	30 mm
- downwards		9 mm
- downwards	<ul> <li>for live parts at 500 V</li> </ul>	
- at the side	•	30 mm
- at the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - forwards - of file parts at 690 V - downwards - upwards - of mile parts at 690 V - downwards - upwards - upwards - upwards - upwards - backwards - upwards - backwards - backwards - backwards - backwards - of mile parts at 690 V - downwards - backwards - backwards - of mile normal curent - for main curent circuit • for auxiliary and control circuit • for auxiliary and control circuit • for fa auxiliary and control circuit • for fa in curent circuit • for fa in curent circuit • for fain curent circuit • fain curent circuit • fain curent circuit • fain curent circuit • f	— upwards	30 mm
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- backwards - at the side - forwards • for live parts at 690 V - downwards 50 mm - upwards 50 mm - backwards - at the side - forwards - backwards - backwards - at the side - forwards - or mm - backwards - at the side - forwards - forwards - forwards - for a williary and control circuit • for a uxiliary and control circuit • for a uxiliary and control circuit • for a williary and control circuit - for main current circuit - for main contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts  - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts - design of screwdriver shaft - size of the screwdriver shaft - s		50 mm
- at the side - forwards - for live parts at 690 V - downwards - upwards - backwards - at the side - forwards - at the side - forwards - at the side - forwards - om - at the side - forwards - om - om - om - om - om - forwards - for main current circuit - of or auxiliary and control circuit - arrangement of electrical connectors for main current circuit - of or auxiliary and control circuit - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded with stranded with core end processing - finely stranded with stranded - finely stranded with stranded with core end processing - finely stranded with stranded - finely stranded with st	— upwards	50 mm
− forwards     • for live parts at 690 V     − downwards     − upwards     − upwards     − backwards     − at the side     − forwards     − forwards     − forwards     − on mm     − forwards     − on mm      − forwards  Connections/ Terminals  type of electrical connection     • for main current circuit     • for auxiliary and control circuit     arrangement of electrical connectors for main current circuit     type of connectable conductor cross-sections     • for main contacts     − solid or stranded     − finely stranded without core end processing     − finely stranded without core end processing     • at AWG cables for main contacts     type of connectable conductor cross-sections     • for auxiliary contacts     − solid or stranded     − finely stranded without core end processing     • for auxiliary contacts     − solid or stranded     − finely stranded without core end processing     • for auxiliary contacts     − solid or stranded     − solid or stranded     − solid or stranded     − solid or stranded without core end processing     − finely stranded without core end processing     − solid or stranded     − solid	— backwards	0 mm
of rolive parts at 690 V         — downwards	— at the side	30 mm
- downwards - upwards - backwards - at the side - forwards  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control 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 - finely stranded with core end processing - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - with high demand rate according to SN 31920  proportion of dangerous failures - with high demand rate according to SN 31920 - with high demand rate according to SN 31920 - with high demand rate according to SN 31920 - with high demand rate according to SN 31920 - with high demand rate according to SN 31920 - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - with low demand rate according to SN 31920 - SN 50 FIT -	— forwards	0 mm
- upwards - backwards - at the side - forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit sarrangement of electrical connectors for main current circuit  - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - finely stranded without core end processing - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely strand	<ul> <li>for live parts at 690 V</li> </ul>	
	— downwards	50 mm
- at the side — forwards 0 mm  Connections/ Terminals  type of electrical connection    • for main current circuit	— upwards	50 mm
Connections/ Terminals  type of electrical connection	— backwards	0 mm
type of electrical connection	— at the side	30 mm
type of electrical connection	— forwards	0 mm
• for main current circuit • for auxiliary and control 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 — finely stranded without core end processing • at AWG cables for main contacts  — solid or stranded — finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for auxiliary contacts  design of screwdriver shaft size of the screwdriver tip  3,0 x 0,5 mm  Safety related data  B10 value • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 50 %  failure rate [FIT] • with low demand rate according to SN 31920 11 value for proof test interval or service life according to  5 oFIT  10 aller for proof test interval or service life according to  10 a	Connections/ Terminals	
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- finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for main contacts  **example of connectable conductor cross-sections**  **example of connectable conn		
<ul> <li>finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for suxiliary contacts</li> <li>at AWG cables for suxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for suxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for</li></ul>		
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<ul> <li>— finely stranded without core end processing <ul> <li>at AWG cables for auxiliary contacts</li> <li>2x (20 14)</li> </ul> </li> <li>design of screwdriver shaft</li> <li>Diameter 3 mm</li> <li>size of the screwdriver tip</li> <li>3,0 x 0,5 mm</li> </ul> <li>Safety related data  <ul> <li>B10 value <ul> <li>with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>failure rate [FIT] <ul> <li>with low demand rate according to SN 31920</li> </ul> </li> <li>T1 value for proof test interval or service life according to</li> </ul> </li> <li>10 a</li> </ul></li>		
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B10 value  • with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT]  • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to  10 a	_	
■ 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 10 a	·	
<ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT]</li> <li>with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to</li> <li>50 %</li> <li>50 %</li> <li>FIT</li> <li>T1 value for proof test interval or service life according to</li> <li>T0 a</li> </ul>		
proportion of dangerous failures  • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to  10 a		5 000
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT]</li> <li>with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to</li> <li>50 %</li> <li>50 %</li> <li>50 FIT</li> <li>10 a</li> </ul>		
<ul> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT]</li> <li>with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to</li> <li>50 %</li> <li>50 FIT</li> <li>10 a</li> </ul>		50 %
failure rate [FIT]  • with low demand rate according to SN 31920  T1 value for proof test interval or service life according to  10 a		
<ul> <li>with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to</li> <li>10 a</li> </ul>		
T1 value for proof test interval or service life according to  10 a	failure rate [FIT]	
		50 FIT
	<ul> <li>with low demand rate according to SN 31920</li> </ul>	

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

display version for switching status

IP20

finger-safe, for vertical contact from the front

Certificates/ approvals

## **General Product Approval**

For use in hazardous locations



Confirmation



<u>KC</u>





For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



## Marine / Shipping















other

Railway

Confirmation



Vibration and Shock

Confirmation

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

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

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

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, ...)

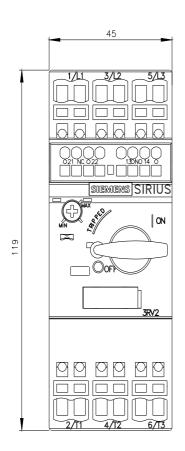
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-0GA25&lang=en

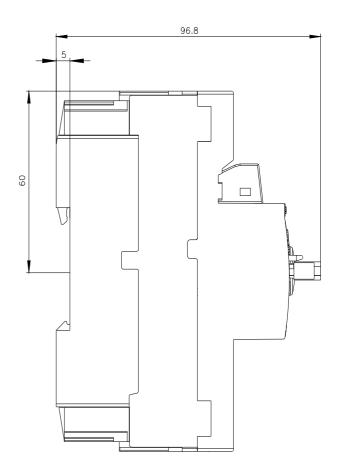
Characteristic: Tripping characteristics, I2t, Let-through current

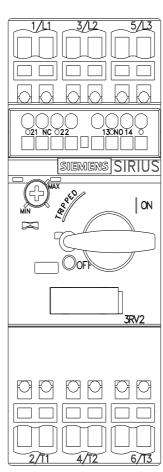
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0GA25/char

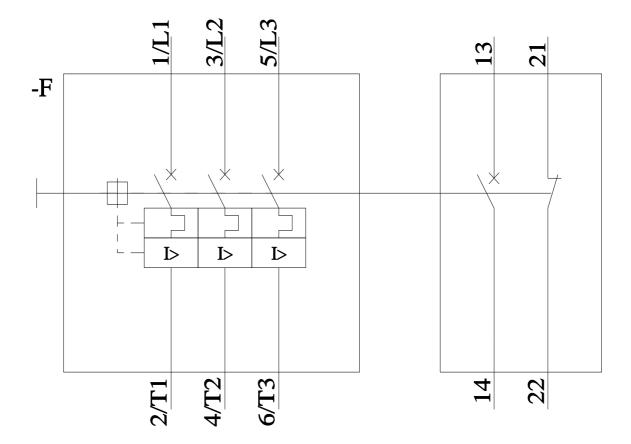
Further characteristics (e.g. electrical endurance, switching frequency)

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









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