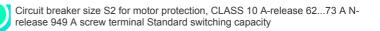
## SIEMENS

## Data sheet

## 3RV2031-4KA10







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	S2
size of contactor can be combined company-specific	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	29.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	9.8 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 Sinus
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	20 000
<ul> <li>of auxiliary contacts typical</li> </ul>	20 000
electrical endurance (operating cycles) typical	20 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	04/10/2015
SVHC substance name	Lead - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	62 73 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	73 A

operational current				
at AC-3 at 400 V rated value	73 A			
operating power				
• at AC-3				
— at 230 V rated value	22 kW			
— at 400 V rated value	37 kW			
— at 500 V rated value	45 kW			
— at 690 V rated value	55 kW			
operating frequency				
• at AC-3 maximum	15 1/h			
Protective and monitoring functions				
product function				
<ul> <li>ground fault detection</li> </ul>	No			
<ul> <li>phase failure detection</li> </ul>	Yes			
trip class	CLASS 10			
design of the overload release	thermal			
maximum short-circuit current breaking capacity (Icu)				
• at AC at 240 V rated value	65 kA			
• at AC at 400 V rated value	65 kA			
• at AC at 500 V rated value	8 kA			
• at AC at 690 V rated value	4 kA			
operating short-circuit current breaking capacity (lcs) at AC				
at 240 V rated value	65 kA			
• at 400 V rated value	30 kA			
• at 500 V rated value	5 kA			
• at 690 V rated value	2 kA			
response value current of instantaneous short-circuit trip unit	949 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	65 A			
at 600 V rated value	62 A			
yielded mechanical performance [hp]				
• for 3-phase AC motor				
- at 200/208 V rated value	20 hp			
— at 220/230 V rated value	25 hp			
— at 460/480 V rated value	50 hp			
— at 575/600 V rated value	60 hp			
Short-circuit protection				
	Vec			
product function short circuit protection	Yes			
design of the short-circuit trip	magnetic			
design of the fuse link for IT network for short-circuit protection of the main circuit				
• at 240 V	none required			
• at 400 V	160			
• at 500 V	125			
• at 690 V	100			
Installation/ mounting/ dimensions				
	201/			
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	140 mm			
width	55 mm			
depth	149 mm			
· · ·				
required spacing	0			
• with side-by-side mounting at the side	0 mm			
<ul> <li>required spacing</li> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> </ul>				
<ul> <li>e with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> <li>— downwards</li> </ul>	50 mm			
<ul> <li>required spacing</li> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> <li>downwards</li> <li>upwards</li> </ul>	50 mm 50 mm			
<ul> <li>required spacing</li> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> </ul>	50 mm			
<ul> <li>required spacing</li> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for live parts at 400 V</li> </ul>	50 mm 50 mm 10 mm			
<ul> <li>required spacing</li> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> </ul>	50 mm 50 mm			

- downwards 90 mm - upwords 90 mm - at the side 10 mm • for ive parts at 500 V - downwards 50 mm - upwards 50 mm - upwards 50 mm • upwards 50 mm • upwards 50 mm - upwards 50 mm • of orgounded parts at 680 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm • of wwwards 50 mm - upwards 70 mm - up	— at the side	10 mm			
	<ul> <li>for grounded parts at 500 V</li> </ul>				
	— downwards	50 mm			
for the parts at 500 V	— upwards	50 mm			
- downwards     50 mm       - upwards     50 mm       - of or grounded parts at 600 V     50 mm       - downwards     50 mm       - upwards     50 mm       - at the aide     10 mm       for main current circuit     reconvertige terminals       diago of the conductor cross-sections     10 mm       - for main contacts     2x (1 25 mm <sup>2</sup> ), tx (1 50 mm <sup>2</sup> )       - for main contacts     2x (1 25 mm <sup>2</sup> ), tx (1 50 mm <sup>2</sup> )       design of the conductor cross-sections     10 a       - for main contacts     3 4.5 km       design of the foreadify throton     Yes       state theread of the connecton screw     6	— at the side	10 mm			
- downwards     50 mm       - upwards     50 mm       - of or grounded parts at 600 V     50 mm       - downwards     50 mm       - upwards     50 mm       - at the aide     10 mm       for main current circuit     reconvertige terminals       diago of the conductor cross-sections     10 mm       - for main contacts     2x (1 25 mm <sup>2</sup> ), tx (1 50 mm <sup>2</sup> )       - for main contacts     2x (1 25 mm <sup>2</sup> ), tx (1 50 mm <sup>2</sup> )       design of the conductor cross-sections     10 a       - for main contacts     3 4.5 km       design of the foreadify throton     Yes       state theread of the connecton screw     6	• for live parts at 500 V				
		50 mm			
for grounded parts at 680 V          Gommards         Gommard	•				
- downwards 50 mm - upwards 50 mm - upwards 50 mm - of the parts at 800 V - downwards 50 mm - upwards 10 mm Connectors/ trainings type of orlectrical connectors for main current default or standed 22 (1 - 35 mm?), tx (1 50 mm?) - for main contacts 22 (1 - 25 mm?), tx (1 50 mm?) - for main contacts 22 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main current - for main contacts 22 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 22 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 23 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 23 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 23 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 23 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 23 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 24 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 24 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 24 (1 - 25 mm?), tx (1 50 mm?) - for Mix Cables for main contacts 35 mm - for Mix Cables for stander 1 bit for main contacts 35 mm - for main contacts 36 mm - for main contacts 36 mm - for main contacts 37 mm - for main contacts 36 mm - for main contacts 37 mm - for main contacts 37 mm - for main contacts 38 mm - for main contact according to 150 1349-2 mecessary 40 % - for main contact for main contact for mix for main contact for mix for main contact for mix for mix for mix for		10 11111			
- of the side 10 mm • for live parts at 800 V - upwards 50 mm - upwards 50 mm - upwards 50 mm - of the side 10 mm Connections/Terminals Type of electrical connectors for main current of or main current dirold screw-type terminals arrangement of electrical connectors for main current of the side 10 mm Connections/Terminals Type of connectable conductor cross-sections • for main contacts - solid or stranded - solid or stranded with once end processing • for AVIC cables for main contacts - solid or stranded with once end processing • for AVIC cables for main contacts • for main contacts • for main contacts with screw-type terminals as 345 N m • for main contacts with screw-type terminals as 345 N m • for main contacts with screw-type terminals as 345 N m • for main contacts with screw-type terminals as 345 N m • for main contacts with screw-type terminals as 345 N m • for main contacts with screw-type terminals as 445 N m • for main contacts with screw-type terminals as 445 N m • for main contacts • safety-related switching OFF • safety-related switching OFF • safety-related switching OFF • safety-related switching OFF • safety-related switching to FS 13120 • with high demand rate according to SN 3120 • for proof rest interiv					
• for live parts at 680 V          - downwards         50 mm	•				
- downwards     50 mm       - upwards     50 mm       - at the side     50 mm       - at the side     10 mm       Connections/Terminals	— at the side	10 mm			
upwards     50 mm       at the side     10 mm       Connections? Terminals     Top and bottom       if or main contacts     Top and bottom       circuit     Top and bottom       type of connectable conductor cross-sections     • for main contacts       solid or stranded     2x (1 35 mm <sup>3</sup> ), 1x (1 60 mm <sup>3</sup> )       main contacts     2x (1 25 mm <sup>3</sup> ), 1x (1 60 mm <sup>3</sup> )       main contacts     2x (1 25 mm <sup>3</sup> ), 1x (1 60 mm <sup>3</sup> )       for AWG cables for main contacts     2x (1 25 mm <sup>3</sup> ), 1x (1 50 mm <sup>3</sup> )       • for main contacts with screw-type terminals     3 4.5 Nm       design of acrewdriver tip     Pocadriv size 2       design of the thread of the connection screw     M6       Stafety related data     Product function suitable for safety function       yes suitability for use     No       • safety-related switching OFF     Yes       suitability for use     No       • with high demand rate according to SN 31920     40 %.       • with high demand rate according to SN 31920     50 %.       B10 value with high demand rate according to SN 31920     50 %.       Sto 13849     device type according to ISO 13849-2 necessary       versi     Proportion of dagerous failures       • with high demand rate according to SN 31920     50 %.       Sto 13849     <	<ul> <li>for live parts at 690 V</li> </ul>				
	— downwards	50 mm			
Connections/Terminals           type of electrical connection           arrangement of electrical connectors for main current circuit           type of connectable conductor cross-sections           • for main contacts           - solid or stranded           - moley stranded with core and processing           - for main contacts           - for main contacts           - for main contacts           - for added with core and processing           - for main contacts with screw-type terminals           - for main contacts           - for main contacts           - for main contacts           - for use           - screw/river staft           - product function suitable for safety function           - safety-related switching OFF           - safety-related switching OFF           - safety-related switching OFF           - safety-related switching OFF           - with low demand rate according to SN 31820           - with low demand rate according to SN 31820           - with low demand rate according to SN 31820           - with ligh de	— upwards	50 mm			
type of electrical connection         screw-type terminals           arrangement of electrical connectors for main current         Top and bottom           tigred of connectable conductor cross-sections         • for main contacts	— at the side	10 mm			
• for main current circuit     screw-type terminals     Top and bottom     Top and bottom and rate according to ISO 13849-	Connections/ Terminals				
• for main current circuit     screw-type terminals     Top and bottom     Top and bottom and rate according to ISO 13849-	type of electrical connection				
arrangement of electrical connectors for main current circuit     Top and bottom       type of connectable conductor cross-sections     • for main contacts       • for main contacts     2x (1 35 mm²), 1x (1 50 mm²)		screw-type terminals			
circuit       if ye of connectable conductor cross-sections         • for main contacts					
• for main contacts					
	type of connectable conductor cross-sections				
	• for main contacts				
	— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)			
• for AWG cables for main contacts         2x (18 2), 1x (18 1)           tiphtening torque         3 4.5 N m           design of screwdriver shaft         Diameter 5 to 6 mm           size of the screwdriver tip         Pozidriv size 2           design of the thread of the connection screw         M6           Safety-related switching on         No           • safety-related switching OFF         Yes           proportion of dangerous failures         (With low demand rate according to SN 31920           • with high demand rate according to SN 31920         50 %           B10 value with high demand rate according to SN 31920         50 %           ISO 13849         device type according to ISO 13849-1         3           overdimensioning according to ISO 13849-2         Type A           T1 value         fo	- finely stranded with core end processing				
tightening torque       34.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       M6         Safety related data       product function suitable for safety function         yes       suitability for use         • safety-related switching on       No         • safety-related switching OFF       Yes         service life maximum       10 a         test wear-related service life necessary       Yes         proportion of dangerous failures       0%         • with high demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         Isol 13849       50 FIT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-1       3         overdimensioning according to ISO 13849-2       Type A         T1 value       • for proof test interval or service life according to IEC 60529       10 a         • fisol       Safety device type according to IEC 60529       1P20         tub protection on the front according to IEC 60529       1P20         tub protection on th					
• for main contacts with screw-type terminals       3 4.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       •         • for main contacts       M6         Safety related data					
design of screwdriver shaft     Diameter 5 to 6 mm       size of the screwdriver up     Pozidriv size 2       design of the thread of the connection screw     M6       stafety related data     M6       product function suitable for safety function     Yes       suitability for use     • safety-related switching on       • safety-related switching OFF     Yes       service life maximum     10 a       test wear-related service life necessary     Yes       proportion of dangerous failures     • with low demand rate according to SN 31920       • with low demand rate according to SN 31920     50 %       B10 value with high demand rate according to SN 31920     50 000       failure rate [FIT] with low demand rate according to SN 31920     50 FIT       31920     S0 FIT       31920     S0 FIT       31920     S0 FIT       31849     device type according to ISO 13849-1       3     3       overdimensioning according to ISO 13849-2     Type A       11 value     • for proof test interval or service life according to IEC 61508-2     Type A       F1 value     • for proof test interval or service life according to IEC 60529     Ip20       folder type according to IEC 60529     Ip20       folder type secording to IEC 60529     Ip20       tub protection on the front according to IEC 60529		3 4 5 N·m			
size of the screwdriver tip     Pozidriv size 2       design of the thread of the connection screw     M6       • for main contacts     M6       Safety related data     product function suitable for safety function     Yes       suitability for use     • safety-related switching on     No       • safety-related switching OFF     Yes       service life maximum     10 a       test wear-related service life necessary     Yes       proportion of dangerous failures     • with low demand rate according to SN 31920     40 %       • with low demand rate according to SN 31920     50 %       B10 value with high demand rate according to SN 31920     50 000       failure rate [FIT] with low demand rate according to SN 31920     50 FIT       31920     S0 FIT       31820     S0 FIT       31820     S0 FIT </th <th></th> <th></th>					
design of the thread of the connection screw     M6       Safety related data     modulated data       product function suitable for safety function     Yes       suitability for use     safety-related switching on       • safety-related switching OFF     Yes       service life maximum     10 a       test wear-related service life necessary     Yes       proportion of dangerous failures     40 %       • with low demand rate according to SN 31920     40 %       • with high demand rate according to SN 31920     50 %       B10 value with high demand rate according to SN 31920     50 %       B10 value with high demand rate according to SN 31920     50 %       B10 value with high demand rate according to SN 31920     50 %       B10 value with high demand rate according to SN 31920     50 %       ISO 13849     device type according to ISO 13849-1       device type according to ISO 13849-1     3       overdimensioning according to ISO 13849-2 necessary     Yes       IEC 61508     safety device type according to IEC 61508-2     Type A       T1 value     -     10 a       eticol     -     10 a       eti					
• for main contacts       M6         Safety related data	· · · · · · · · · · · · · · · · · · ·	POZIULIV SIZE Z			
Safety related data         product function suitable for safety function       Yes         suitability for use       •         • safety-related switching OFF       Yes         service life maximum       10 a         test wear-related service life necessary       Yes         proportion of dangerous failures       •         • with low demand rate according to SN 31920       40 %         • with low demand rate according to SN 31920       50 %0         B10 value with high demand rate according to SN 31920       50 %0         failure rate [FIT] with low demand rate according to SN 31920       50 %1         ISO 13849       device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2       Type A         T1 value       •       •       for proof test interval or service life according to IEC 60529       IP20         protection class IP on the front according to IEC 60529       IP20       touch protection on the front according to IEC 60529       Ip20         display version for switching status       Handle       Approvals Certificates       Approvals Certificates	-				
product function suitable for safety function     Yes       suitability for use     • safety-related switching on     No       • safety-related switching OFF     Yes       service life maximum     10 a       test wear-related service life necessary     Yes       proportion of dangerous failures     • with low demand rate according to SN 31920     40 %       • with low demand rate according to SN 31920     50 %       B10 value with high demand rate according to SN 31920     50 000       failure rate [FIT] with low demand rate according to SN 31920     50 FIT       31920     100 a       test wear-related service life according to SN 31920     50 000       failure rate [FIT] with low demand rate according to SN 31920     50 FIT       180 13849     device type according to ISO 13849-1     3       overdimensioning according to ISO 13849-2 necessary     Yes       IEC 61508     safety device type according to IEC 61508-2     Type A       T1 value     • for proof test interval or service life according to IEC 60529     10 a       e flexical Safety     protection on the front according to IEC 60529     IP20       touch protection on the front according to IEC 60529     Ip20       touch protection on the front according to IEC 60529     Ip20       display version for switching status     Handle       Approvals Certificates     Handle<		M6			
suitability for use       No         • safety-related switching OFF       Yes         service life maximum       10 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         ISO 13849       50 FIT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       10 a         safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 60529       10 a         e for proof test interval or service life according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Ipa-safe, for vertical contact from the front         Display       display version for switching status       Handle         Approvals Certificates       Handle					
• safety-related switching on       No         • safety-related switching OFF       Yes         service life maximum       10 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         ISO 13849       50 FIT         device type according to ISO 13849-1       3         overdimensioning according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 60529       Type A         T1 value       • for protest interval or service life according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Ip20         touch protection on the front according to IEC 60529       finger-safe, for vertical c	product function suitable for safety function	Yes			
• safety-related switching OFF       Yes         service life maximum       10 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         ISO 13849       50 FIT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 61529       Type A         T1 value       • for proof test interval or service life according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Ip20         touch protection on the front according to IEC 60529       Ip20         touch protection on the front according to IEC 60529       Ip20         touch protection on the front according to IEC 60529       Ip20         touch protection on the front according to I	suitability for use				
service life maximum       10 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         Iso 13849       50 FIT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 61508-2       Type A         Electrical Safety       protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20       finger-safe, for vertical contact from the front         Display       display version for switching status       Handle         Approvals Certificates       Handle	<ul> <li>safety-related switching on</li> </ul>	No			
test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 00         failure rate [FIT] with low demand rate according to SN 31920       50 FIT         31920       S0 13849         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508	<ul> <li>safety-related switching OFF</li> </ul>	Yes			
proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       5 000         failure rate [FIT] with low demand rate according to SN 31920       50 %         ISO 13849       50 FIT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       3         safety device type according to IEC 61508-2       Type A         T1 value       10 a         • for proof test interval or service life according to IEC 60529       10 a         Electrical Safety       IP20         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       diaplay version for switching status       Handle         Approvals Certificates       Handle	service life maximum	10 a			
with low demand rate according to SN 31920     with high demand rate according to SN 31920     So % B10 value with high demand rate according to SN 31920     So 00 failure rate [FIT] with low demand rate according to SN     31920     ISO 13849 device type according to ISO 13849-1     device type according to ISO 13849-2 necessary     Yes     IEC 61508     safety device type according to IEC 61508-2     Type A T1 value         • for proof test interval or service life according to IEC         61508     Electrical Safety     protection class IP on the front according to IEC 60529     for yer for switching status     display version for switching status     Approvals Certificates	test wear-related service life necessary	Yes			
• with high demand rate according to SN 31920       50 %         B10 value with high demand rate according to SN 31920       5 000         failure rate [FIT] with low demand rate according to SN 31920       50 FIT         ISO 13849       50 FIT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       7ype A         safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 61508         Electrical Safety       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front 1         Display       display version for switching status       Handle         Approvals Certificates       Handle	proportion of dangerous failures				
B10 value with high demand rate according to SN 31920       5 000         failure rate [FIT] with low demand rate according to SN 31920       50 FIT         ISO 13849       50 FIT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Type A         safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 61529       10 a         Electrical Safety       IP20         protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front the front         Display       display version for switching status       Handle         Approvals Certificates       Approvals Certificates	<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %			
B10 value with high demand rate according to SN 31920       5 000         failure rate [FIT] with low demand rate according to SN 31920       50 FIT         ISO 13849       50 FIT         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Type A         safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 61529       10 a         Electrical Safety       IP20         protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front the front         Display       display version for switching status       Handle         Approvals Certificates       Approvals Certificates	<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %			
failure rate [FIT] with low demand rate according to SN       50 FIT         31920       ISO 13849         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Yes         safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 61508         Electrical Safety       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Display       display version for switching status       Handle         Approvals Certificates        Handle		5 000			
31920         ISO 13849         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Yes         safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC       10 a         €1508       Electrical Safety         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       display version for switching status       Handle         Approvals Certificates       Image: Approvals Certificates					
device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508					
overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Type A         safety device type according to IEC 61508-2       Type A         T1 value       0         • for proof test interval or service life according to IEC 61508       10 a         Electrical Safety       10 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Display       display version for switching status         Approvals Certificates       Handle	ISO 13849				
IEC 61508         safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 61508         • for proof test interval or service life according to IEC 61508       10 a         Electrical Safety       protection class IP on the front according to IEC 60529         protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Display       display version for switching status       Handle         Approvals Certificates       Image: Safe Safe Safe Safe Safe Safe Safe Safe	device type according to ISO 13849-1	3			
IEC 61508         safety device type according to IEC 61508-2       Type A         T1 value       • for proof test interval or service life according to IEC 61508         • for proof test interval or service life according to IEC 61508       10 a         Electrical Safety       protection class IP on the front according to IEC 60529         protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Display       display version for switching status       Handle         Approvals Certificates       Image: Safe Safe Safe Safe Safe Safe Safe Safe	overdimensioning according to ISO 13849-2 necessary	Yes			
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T1 value       • for proof test interval or service life according to IEC       10 a         • for proof test interval or service life according to IEC       10 a         Electrical Safety       IP20         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       display version for switching status       Handle         Approvals Certificates       Image: Second status       Image: Second status	safety device type according to IEC 61508-2	Туре А			
• for proof test interval or service life according to IEC         10 a           61508         10 a           Electrical Safety         IP20           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         display version for switching status         Handle           Approvals Certificates         IP20         IP20					
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       display version for switching status       Handle         Approvals Certificates       Image: Safe state stat		10 a			
touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Display       display version for switching status       Handle         Approvals Certificates       Handle       Handle	Electrical Safety				
touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Display       display version for switching status       Handle         Approvals Certificates       Handle       Handle	protection class IP on the front according to IEC 60529	IP20			
Display display version for switching status Handle Approvals Certificates		finger-safe, for vertical contact from the front			
display version for switching status Handle Approvals Certificates					
Approvals Certificates		Handle			
General Froutict Approval					
	General Product Approval				

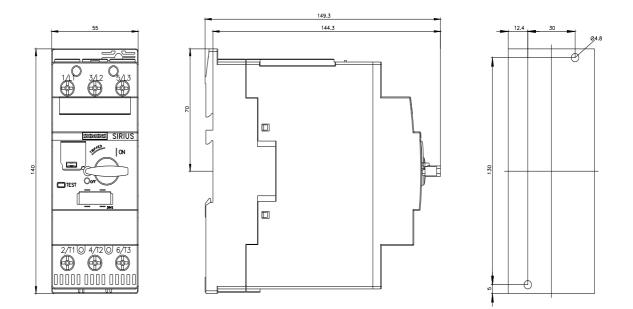
CE EG-Konf.	UK CA		<u>Confirmation</u>		KC		
General Product Approval			Test Certificates		Marine / Shipping		
EHC	IECEX	K ATEX	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping					other		
BUREAU VERITAS		Llovd's Register uis	PRS	RINA	<u>Miscellaneous</u>		
other		Railway		Environment			
<u>Confirmation</u>		<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	EPD	Siemens EcoTech		
Environment							
Environmental Con- firmations							
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=3RV2031-4KA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4KA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4KA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax. de.aspx?mlfb=3RV2031-4KA10⟨=en							

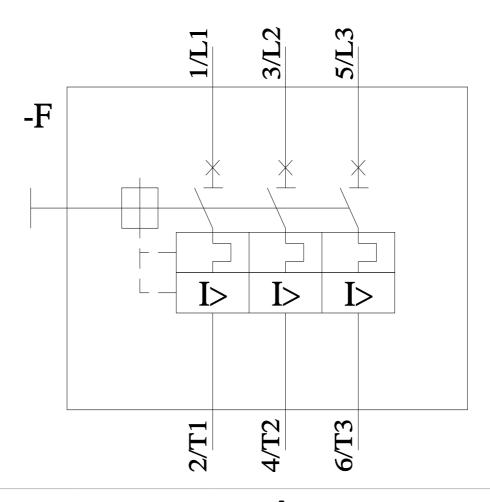
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

 https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4KA10/char

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

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4KA10&objecttype=14&gridview=view1





4/12/2024 🖸