## SIEMENS

## Data sheet

## 3RV2031-4JA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 54...65 A N-release 845 A screw terminal Standard switching capacity



product brand name         SIRUS           product designation         Circuit breaker           design of the product         For motor protection           product type designation         3RV2           Canaral technical data         size of the circuit-breaker           size of the circuit-breaker         S2           size of the circuit-breaker         S2           ower loss (W) for rated value of the current         ************************************		
design of the product       For motor protection         product type designation       3RV2         Ceneral technical data       S2         size of the circuit-breaker       S2         size of contactor can be combined company-specific       S2         power loss (W) for rated value of the current       *         • at AC in hot operating state       26 W         • at AC in hot operating state per pole       8.7 W         insulation voltage with degree of pollution 3 at AC rated value       6 kV         strage voltage resistance according to IEC 60068-2-27       25g / 11 ms Sinus         mechanical service life (operating cycles)       •         • of the main contacts typical       20 000         • of during to IEC 81346-2       Q         Substance Prohibitance (Date)       04/10/2015         Substance Prohibitance (Date)       04/10/2015         Substance name       Lead 'T439-92-1         Lead 'T439-92-1       Lead 'T439-92-1         Lead 'their conditions       1.178 kg         Ambient conditions       200 0m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -50 +80 'C         • during torage       -50 +80 'C         • during torage       -50	product brand name	SIRIUS
product type designation         3RV2           General technical data	product designation	Circuit breaker
General technical data     size of the circuit-breaker     \$2       size of contactor can be combined company-specific     \$2       product extension auxiliary switch     Yes       power loss [W] for rated value of the current     \$2       • al AC in hot operating state     26 W       • al AC in hot operating state per pole     8.7 W       insulation voltage with degree of pollution 3 at AC rated value     690 V       surge voltage resistance rated value     64 V       shock resistance according to IEC 60068-2-27     25g / 11 ms Sinus       mechanical service life (operating cycles)     6       • of the main contacts typical     20 000       • of the main contacts typical     20 000       • of auxiliary contacts typical     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 titanium zirconium oxide - 12626-81-2       Weight     1.178 kg       Ambient conditions     -20 +60 °C       • during totage     -50 +80 °C       • during transport     -50 +80 °C       • during transport     -50 +80 °C       • during transport     -50 +80 °C       environmental Product Declaration(EPD)     Yes	design of the product	For motor protection
size of the circuit-breaker       \$2         size of contactor can be combined company-specific       \$2         product extension auxiliary switch       Yes         power loss [W] for rated value of the current       \$2 W         • at AC in hot operating state       26 W         • at AC in hot operating state       26 W         insulation voltage with degree of pollution 3 at AC rated value       6 KV         shock resistance according to IEC 60068-2:27       25g / 11 ms Sinus         mechanical service IIfe (operating cycles)       0000         • of the main contacts typical       20 000         • of auxiliary contacts typical       20 000         electrical endurance (operating cycles) typical       20 000         electrical endurance (operating cycles) typical       20 000         substance Prohibitance (Date)       04/10/2015         SUHC substance name       Lead - 7439-92-1         Lead titainium zirconium oxide - 12626-81-2       Weight         Ambient conditions       -20 +60 °C         installation altitude at height above sea level maximum       2 000 m         ambient temporature       -40 °C         • during torage       -50 +80 °C         • during torage       -50 +80 °C         • during transport       -50 +80 °C	product type designation	3RV2
size of contactor can be combined company-specific       S2         product extension auxiliary switch       Yes         power loss [W] for rated value of the current       26 W         • at AC in hot operating state       26 W         • at AC in hot operating state per pole       8.7 W         insulation voltage with degree of pollution 3 at AC rated value       690 V         surge voltage resistance rated value       680 V         shock resistance according to IEC 60068-2-27       25g / 11 ms Sinus         mechanical service life (operating cycles)       6         • of the main contacts typical       20 000         • of auxiliary contacts typical       20 000         electrical endurance (operating cycles) typical       20 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       04/10/2015         SVES substance name       Lead -7439-92-1         Lead thanium zirconium oxide - 12626-81-2       Weight         1.178 kg       1.178 kg         Ambient conditions       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         • during transport       -50 480 °C         rel	General technical data	
product extension auxiliary switch     Yes       power loss [W] for rated value of the current     26 W       • at AC in hot operating state     26 W       • at AC in hot operating state probe     8.7 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)     000       • of the main contacts typical     20 000       • of auxiliary contacts typical     20 000       • of auxiliary contacts typical     20 000       • efference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     04/10/2015       SVHC substance name     Lead -7439-92-1       Lead titanium zirconium oxide - 12626-81-2     Weight       1.178 kg     Ambient conditions       installation altitude at height above sea level maximum     2 000 m       ambient temperature     -20 +60 °C       • during storage     -50 +80 °C       • during transport     -50 +80 °C       • during potential [CO2 eq] total	size of the circuit-breaker	S2
power loss [W] for rated value of the current         26 W           • at AC in hot operating state per pole         8.7 W           insulation voltage with degree of pollution 3 at AC rated value         690 V           surge voltage resistance rated value         64 V           shock resistance according to IEC 60068-2:27         25g / 11 ms Sinus           mechanical service life (operating cycles)         6 kV           of the main contacts typical         20 000           electrical endurance (operating cycles) typical         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           Lead titanium zirconium oxide - 12626-81-2         Q           Might         1.178 kg           Ambient conditions         1installation altitude at height above sea level maximum           installation altitude at height above sea level maximum         2 000 m           ambient temperature         - 400 °C           • during pration         -20 +60 °C           • during storage         -50 +80 °C           relative humidity during operation         10 95 %           Environmental Product Declaration(EPD	size of contactor can be combined company-specific	S2
• at AC in hot operating state       26 W         • at AC in hot operating state per pole       8.7 W         insulation voltage with degree of pollution 3 at AC rated value       690 V         surge voltage resistance rated value       64 V         shock resistance according to IEC 60068-2-27       25g / 11 ms Sinus         mechanical service life (operating cycles)       6         • of the main contacts typical       20 000         • of auxiliary contacts typical       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         Lead trianium zirconium oxide - 12626-81-2       Weight         Ambient conditions       1.178 kg         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         • during storage       -50 +80 °C         • during itransport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       239.877 kg         global warming potential [CO2 eq] during sa	product extension auxiliary switch	Yes
• at AC in hot operating state per pole       8.7 W         insulation voltage with degree of pollution 3 at AC rated value       680 V         surge voltage resistance rated value       6 KV         shock resistance according to IEC 60068-2-27       259 /11 ms Sinus         mechanical service life (operating cycles)       -         • of the main contacts typical       20 000         • of auxiliary contacts typical       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 Lead titanium zirconium oxide - 12626-81-2         Weight       1.178 kg         Ambient conditions       2 000 m         ambient tomperature       -20 +60 °C         • during strage       -50 +80 °C         • during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg	power loss [W] for rated value of the current	
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)       0         • of the main contacts typical       20 000         electrical endurance (operating cycles) typical       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         Lead trianium zirconium oxide - 12626-81-2         Weight       1.178 kg         Ambient conditions       -         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -50 +60 °C         • during operation       -50 +80 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg </td <td><ul> <li>at AC in hot operating state</li> </ul></td> <td>26 W</td>	<ul> <li>at AC in hot operating state</li> </ul>	26 W
surge voltage resistance rated value       6 kV         shock resistance according to IEC 60068-2-27       25g / 11 ms Sinus         mechanical service life (operating cycles)       20 000         • of the main contacts typical       20 000         electrical endurance (operating cycles) typical       20 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       04/10/2015         SHC substance name       Lead - 7439-92-1         Lead trainium zirconium oxide - 12626-81-2         Weight       1.178 kg         Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient storage       -50 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental Footprint       239.877 kg         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg	<ul> <li>at AC in hot operating state per pole</li> </ul>	8.7 W
shock resistance according to IEC 60068-2-27       25g / 11 ms Sinus         mechanical service life (operating cycles)       0         • of the main contacts typical       20 000         • of auxiliary contacts typical       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         Lead titanium zirconium oxide - 12626-81-2       Weight         Ambient conditions       1.178 kg         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during operation       10 95 %         Environmental footprint       239.877 kg         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during operation       230 kg	insulation voltage with degree of pollution 3 at AC rated value	690 V
mechanical service life (operating cycles)       20 000         • of the main contacts typical       20 000         • of auxiliary contacts typical       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         Lead titanium zirconium oxide - 12626-81-2         Weight       1.178 kg         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         • during operation       10 95 %         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       239.877 kg         global warming potential [CO2 eq] total       239.877 kg         global warming potential [CO2 eq] total       239.877 kg         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during operati	surge voltage resistance rated value	6 kV
• of the main contacts typical       20 000         • of auxiliary contacts typical       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         Lead - 7439-92-1       Lead trainium zirconium oxide - 12626-81-2         Weight       1.178 kg         Ambient conditions	shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
• of auxiliary contacts typical20 000electrical endurance (operating cycles) typical20 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)04/10/2015SVHC substance nameLead - 7439-92-1 Lead titanium zirconium oxide - 12626-81-2Weight1.178 kgAmbient conditions2 000 mambient temperature2 000 m• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Environmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] during manufacturing239.877 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	mechanical service life (operating cycles)	
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 Lead titanium zirconium oxide - 12626-81-2         Weight       1.178 kg         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg	<ul> <li>of the main contacts typical</li> </ul>	20 000
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       04/10/2015         SVHC substance name       Lead - 7439-92-1 Lead titanium zirconium oxide - 12626-81-2         Weight       1.178 kg         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental Footprint       239.877 kg         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during operation       230 kg	<ul> <li>of auxiliary contacts typical</li> </ul>	20 000
Substance Prohibitance (Date)       04/10/2015         SVHC substance name       Lead - 7439-92-1 Lead titanium zirconium oxide - 12626-81-2         Weight       1.178 kg         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental Footprint       239.877 kg         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during operation       230 kg	electrical endurance (operating cycles) typical	20 000
SVHC substance name       Lead - 7439-92-1 Lead titanium zirconium oxide - 12626-81-2         Weight       1.178 kg         Ambient conditions       2000 m         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 %         Environmental footprint       Environmental Froduct Declaration(EPD)         Yes       global warming potential [CO2 eq] during manufacturing         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during operation       230 kg	reference code according to IEC 81346-2	Q
Lead titanium zirconium oxide - 12626-81-2         Weight       1.178 kg         Ambient conditions       1         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 %         Environmental footprint       239.877 kg         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg	Substance Prohibitance (Date)	04/10/2015
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental footprint       Yes         global warming potential [CO2 eq] total       239.877 kg         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during operation       230 kg	SVHC substance name	
installation altitude at height above sea level maximum2 000 mambient temperature-20 +60 °C• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Environmental footprintEnvironmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] total239.877 kgglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	Weight	1.178 kg
ambient temperature• during operation• during storage• during storage• during transport-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Environmental footprintEnvironmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	Ambient conditions	
• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Environmental footprintEnvironmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	installation altitude at height above sea level maximum	2 000 m
• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Environmental footprintEnvironmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	ambient temperature	
• during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental footprint	<ul> <li>during operation</li> </ul>	-20 +60 °C
relative humidity during operation10 95 %Environmental footprintEnvironmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] total239.877 kgglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	during storage	-50 +80 °C
Environmental footprint         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       239.877 kg         global warming potential [CO2 eq] during manufacturing       12.8 kg         global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during operation       230 kg	during transport	-50 +80 °C
Environmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] total239.877 kgglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	relative humidity during operation	10 95 %
global warming potential [CO2 eq] total239.877 kgglobal warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	Environmental footprint	
global warming potential [CO2 eq] during manufacturing12.8 kgglobal warming potential [CO2 eq] during sales0.477 kgglobal warming potential [CO2 eq] during operation230 kg	Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] during sales       0.477 kg         global warming potential [CO2 eq] during operation       230 kg	global warming potential [CO2 eq] total	239.877 kg
global warming potential [CO2 eq] during operation 230 kg	global warming potential [CO2 eq] during manufacturing	12.8 kg
	global warming potential [CO2 eq] during sales	0.477 kg
global warming potential [CO2 eq] after end of life -3.4 kg	global warming potential [CO2 eq] during operation	230 kg
	global warming potential [CO2 eq] after end of life	-3.4 kg

Siemens Eco Profile (SEP)	Siemens EcoTech
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	54 65 A
type of voltage for main current circuit	AC
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	65 A
operational current	
• at AC-3 at 400 V rated value	65 A
• at AC-3e at 400 V rated value	65 A
operating power	
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
• at AC-3e	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	No
ground fault detection	No
phase failure detection	Yes CLASS 10
trip class design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
at AC at 240 V rated value	100 kA
at AC at 240 V rated value     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 (Ics) at AC	
at 240 V rated value	100 kA
at 400 V rated value	30 kA
at 500 V rated value	4 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	845 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	
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	
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	
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
• for live parts at 500 V	50
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for grounded parts at 690 V</li> <li>— downwards</li> </ul>	50 mm
— upwards	50 mm
— at the side	10 mm
for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (18 2), 1x (18 1)
tightening torque	
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	
product function suitable for safety function	Yes
suitability for use	
<ul> <li>safety-related switching on</li> </ul>	No

<ul> <li>safety-related sw</li> </ul>	itching OFF		Yes		
service life maximum			10 a		
test wear-related serv			Yes		
proportion of dangero					
	rate according to SN 319		40 %		
	d rate according to SN 31		50 %		
	emand rate according to		5 000		
31920	ow demand rate accord	ing to SN	50 FIT		
ISO 13849		_			
device type according	to ISO 13849-1		3		
overdimensioning acc	ording to ISO 13849-2 n	necessary	Yes		
IEC 61508					
safety device type acc	ording to IEC 61508-2		Туре А		
<ul> <li>T1 value</li> <li>● for proof test inte 61508</li> </ul>	rval or service life accord	ing to IEC	10 a		
Electrical Safety					
	the front according to I	EC 60529	IP20		
	e front according to IE0		finger-safe, for vertical co	ontact from the front	
Display					
display version for swite	hing status		Handle		
Approvals Certificates					
General Product App	oval				
			•	KC	
(m)	(6	UK	(JU)		FAL
					ΓΠΙ
ccc	EG-Konf.		UL		
General Product Ap-	For use in hazardous	locations	Test Certificates	3	Marine / Shipping
General Product Approval	For use in hazardous	locations	Test Certificates	3	Marine / Shipping
proval	For use in hazardous	locations			
	For use in hazardous	locations	Test Certificates Special Test Cert ate		ic-
proval	For use in hazardous	locations	Special Test Cert	tific- <u>Type Test Certifi</u>	ic-
proval	For use in hazardous	locations	Special Test Cert	tific- <u>Type Test Certifi</u>	ic-
proval	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic-
proval <u>BIS CRS</u>	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic-
proval	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic-
proval <u>BIS CRS</u>	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
proval <u>BIS CRS</u>	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti ABS
proval <u>BIS CRS</u>	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
proval BIS CRS Marine / Shipping	For use in hazardous	IECE×	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
proval <u>BIS CRS</u>	ATEX	IECEx IECEx	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx	Special Test Cert	tific- <u>Type Test Certifi</u>	ic- ti Question ABS
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx LIRS	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- ti Question ABS
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- ti Question ABS
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx LIRS	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous
proval BIS CRS Marine / Shipping	ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other <u>Miscellaneous</u>
proval BIS CRS Marine / Shipping	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous
proval BIS CRS Marine / Shipping	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous
proval BIS CRS Marine / Shipping	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous
proval BIS CRS Marine / Shipping UREAU UUREAU	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous
proval BIS CRS BIS CRS Marine / Shipping  Confirmation Confirmation Environment Consection Confirmation	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous
proval BIS CRS Marine / Shipping UREAU UUREAU	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous Siemens
proval BIS CRS BIS CRS Marine / Shipping  Confirmation Confirmation Environment Consection Confirmation	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous Siemens
proval BIS CRS BIS CRS Marine / Shipping  Confirmation Confirmation Environment Consection Confirmation	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous
proval BIS CRS BIS CRS Marine / Shipping  Confirmation Confirmation Environment Consection Confirmation	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous Siemens
proval BIS CRS BIS CRS Marine / Shipping Marine / Shipping Confirmation Confirmation Environmental Con- firmations	ATEX ATEX	IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous
proval BIS CRS Marine / Shipping Marine / Shipping Confirmation Confirmation Environment		IECEx IECEx IECEx IECEx IECEx IECEX	Special Test Cert ate	tific- <u>Type Test Certifi</u> ates/Test Repo	ic- t Other Miscellaneous

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=3RV2031-4JA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4JA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4JA10

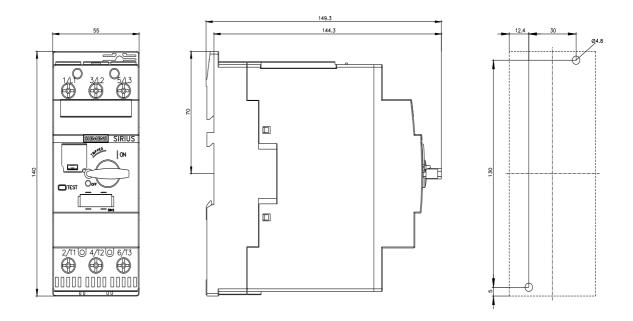
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2031-4JA10&lang=en

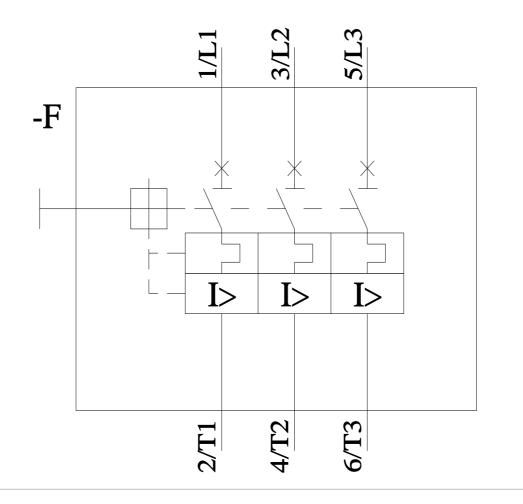
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4JA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4JA10&objecttype=14&gridview=view1





last modified:

5/16/2025 🖸