## SIEMENS

## Data sheet

## 3RV2031-4PA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 28...36 A N-release 520 A screw 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	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>	20 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	6.7 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)	
<ul> <li>of the main contacts typical</li> </ul>	50 000
<ul> <li>of auxiliary contacts typical</li> </ul>	50 000
electrical endurance (operating cycles) typical	50 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/15/2014
SVHC substance name	Lead - 7439-92-1
Weight	1.08 kg
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
during transport	-50 +80 °C
relative humidity during operation	10 95 %
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
global warming potential [CO2 eq] after end of life	-3.4 kg
Siemens Eco Profile (SEP)	Siemens EcoTech

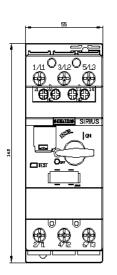
number of poles for main surverst circuit         3         30 A           eigenidation contrast release         20         A           poper divisitie for main surverst circuit         AC           opper divisitie for main surverst         BO. B           opper divisitie for main surverst         BO. B           opper divisitie for main surverst         BA           opper divisitie for main surverst	Main circuit					
edipathic current response value current of the current- dependent overlage         28		3				
operating voltage for main current circuit         AC           operating voltage maximum         20880 V           • raded volte maximum         600 V           • # AG-3 raded volte maximum         600 V           operating frequency rated volte         88 A           operating frequency rated volte         88 A           • # AG-3 rad AD V mated volte         88 A           operating frequency rated volte         88 A           • # AG-3 rad AD V mated volte         88 A           operating frequency rated volte         88 A           • # AG-3 rad AD V mated volte         18 S MV           - at 200 V rated volte         18 S MV           - at 200 V rated volte         18 S MV           - at 200 V rated volte         18 S MV           - at 200 V rated volte         19 S M           operating frequency         -           - at 200 V rated volte         19 S M           operating frequency         -           - at 200 V rated volte         10           operating frequency         -           - at AC-3 maximum         15 S M     <	adjustable current response value current of the current-					
ortadic value20880 V• AC-3 rated value maximum680 V• AR-3 rated value maximum690 V• AR-3 rated value maximum690 Voperation (current rated value)68 Aoperation (current rated value)78 A- at 420 V rated value11 KW- at 420 V rated value18 SW- at 500 V rated value22 SW- at 600 V rated value22 SW- at 600 V rated value30 KWoperation (requence)15 1%- at 600 V rated value30 KWoperation (current of auxility contacts 11number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts 11number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1<	•	AC				
• artic visue         20600 V           • aft AC-3 traited value maximum         650 V           • operating frequency rated value         6060 Hz           operational current         66 A           • aft AC-3 at 400 V rated value         36 A           operating frequency rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         36 A           • aft AC-3 at 400 V rated value         30 kW           • aft AC-3 at 400 V rated value         30 kW           • aft AC-3 at 400 V rated value         30 kW           • aft AC-3 at 400 V rated value         30 kW           • aft AC-3 at 400 V rated value         30 kW           • aft AC-3 at 400 V rated value         30 kW           • aft AC-3 at 400 V rated value         1						
• al AC-3e rated value maximum     650 V       operational current rated value     36 A       operational current rated value     36 A       • al AC-3 at 400 V rated value     36 A       operational current     36 A       • al AC-3 at 400 V rated value     36 A       • al AC-3 at 400 V rated value     36 A       • al AC-3 at 400 V rated value     36 A       • al AC-3 at 400 V rated value     36 A       • al AC-3 at 400 V rated value     26 W       • al AD V rated value     36 A       • al AD V rated value     36 N       • al AD V rated value     36 N       • al AD V rated value     36 NW       • al AD V rated value		20 690 V				
operating frequency noted value         50 60 Hz           operational current rated value         36 A           operational current         36 A           e all AC-3 at 400 V rated value         36 A           operating power         all AC-3           - all AC-3 at 400 V rated value         36 A           - all AC-3         11 NW           - all AC-3         11 NW           - all AC-3 at 400 V rated value         18 NW           - all AD V rated value         28 NW           - all AD V rated value         30 NW           - all AD V rated value         30 NW           - all AD V rated value         22 NW           - all AD V rated value         30 NW           - all AD V rated value         22 NW           - all AD V rated value         30 NW           Operating requency         -           • all AC-3 maximum         15 th           Auxiliary circuit         ACICC           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         0           operational current of auxiliary contacts at AC-15         -           • all AV         A           • all AV         0 A           • all AV         0 A	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V				
operational current relativable         86 A           operational current         86 A           • af AC-S at 400 V rated value         86 A           • af AC-S at 400 V rated value         86 A           • af AC-S at 400 V rated value         86 A           • af AC-S at 400 V rated value         86 A           • af AC-S         • af 230 V rated value         11 KW           • af 400 V rated value         22 KW           • af 400 V rated value         20 KW           • af 600 V rated value         30 KW           operating frequency         i           • af AC-Se maximum         15 fh           • af AC-Se maximum         10 Notact value           operational current of auxillary contracts         1           number of NC cortacts for auxillary contracts         1           number of NC cortacts at AC-15	<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V				
operational current relativable         86 A           operational current         86 A           • af AC-S at 400 V rated value         86 A           • af AC-S at 400 V rated value         86 A           • af AC-S at 400 V rated value         86 A           • af AC-S at 400 V rated value         86 A           • af AC-S         • af 230 V rated value         11 KW           • af 400 V rated value         22 KW           • af 400 V rated value         20 KW           • af 600 V rated value         30 KW           operating frequency         i           • af AC-Se maximum         15 fh           • af AC-Se maximum         10 Notact value           operational current of auxillary contracts         1           number of NC cortacts for auxillary contracts         1           number of NC cortacts at AC-15	operating frequency rated value	50 60 Hz				
air AAC3a at 400 Vrated value         36 A           air AAC3a at 400 Vrated value         36 A           operating power         11 kW           - at 230 Vrated value         18.5 kW           - at 400 Vrated value         22 kW           - at 600 Vrated value         30 kW           operating frequency         -           - at 600 Vrated value         30 kW           operating frequency         -           - at 600 Vrated value         30 kW           operating frequency         -           - at 600 Vrated value         30 kW           operating frequency         -           - at 600 Vrated value         60 kW           operating frequency         -           - at 600 Vrated value         0 A           - at 60 Vrated value		36 A				
air AAC3a at 400 Vrated value         36 A           air AAC3a at 400 Vrated value         36 A           operating power         11 kW           - at 230 Vrated value         18.5 kW           - at 400 Vrated value         22 kW           - at 600 Vrated value         30 kW           operating frequency         -           - at 600 Vrated value         30 kW           operating frequency         -           - at 600 Vrated value         30 kW           operating frequency         -           - at 600 Vrated value         30 kW           operating frequency         -           - at 600 Vrated value         60 kW           operating frequency         -           - at 600 Vrated value         0 A           - at 60 Vrated value	operational current					
operating power         • at AC3         - at 230 V rated value         - at 240 V rated value         - at 890 V rated value         - at 890 V rated value         - at 890 V rated value         - at 230 V rated value         - at 890 V rated value         - at 230 V rated value         - at 890 V rated value         - at 200 V rated value         - at 200 V         - at 20 V	-	36 A				
• et AC-3         11 kW           - at 230 V rated value         12 kW           - at 500 V rated value         22 kW           - at 600 V rated value         30 kW           • at AC-3e         11 kW           - at 200 V rated value         30 kW           - at 200 V rated value         10 kW           - at 200 V rated value         22 kW           - at 200 V rated value         30 kW           operating frequency         -           • at AC-3 maximum         15 1/h           • at AC-3 maximum         16 1/h           • at AC-3 maximum         0 AC/DC           • at AC-3 maximum         0 AC/DC           • at 20 V         0 A	<ul> <li>at AC-3e at 400 V rated value</li> </ul>	36 A				
	operating power					
	• at AC-3					
	— at 230 V rated value	11 kW				
	— at 400 V rated value	18.5 kW				
• at AC-3e·- at 230 V rated value11 kW- at 800 V rated value18.5 kW- at 800 V rated value22 kW- at 800 V rated value30 kWoperating frequency·• at AC-3 maximum15 1/h• at AC-3 maximum15 1/h• at AC-3 maximum15 1/h• at AC-3 maximum15 1/hAuxiliary arcsValue(type of voltage for auxiliary contacts1/ unwber of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts0operation after auxiliary contacts0operational current of auxiliary contacts at AC-15•• at 24 V2 A• at 25 V0.5 Aoperational current of auxiliary contacts at DC-13• at 25 V0.5 A• at 25 V0.4 A• at 26 at 20 V reter value100 kA• at 27 A ta 24 V rated value100 kA• at 24 40 V rated value <t< td=""><td></td><td>22 kW</td></t<>		22 kW				
	— at 690 V rated value	30 kW				
− at 400 V rated value18.5 kW− at 600 V rated value22 kW− at 600 V rated value30 kWoperating frequency15 1/h• at AC-3 maximum15 1/h• at AC-3 maximum15 1/h• at AC-3 maximum15 1/hAuxiliary circuitCAC/DC///////////////////////////////////	• at AC-3e					
− at 500 V rated value     22 kW       − at 600 V rated value     30 kW       operating frequency     15 1/h       • at AC-3 maximum     15 1/h       Autility circuit     AcXiliary contacts       design of the auxiliary and control circuit     AC/C/C       number of NC contacts for auxiliary contacts     1       number of NC contacts for auxiliary contacts     1       number of NC contacts for auxiliary contacts     0       operational current of auxiliary contacts     0       operational current of auxiliary contacts at AC-15     • at 230 V       • at 24 V     2 A       • at 25 V     0 A       • at 26 V rated value     10 kA       • at 27 V     10 kA       • at 28 V rated value     100 kA       • at 29 V rated value     4 kA       oporating short-icruit current breaking cap	— at 230 V rated value	11 kW				
	— at 400 V rated value	18.5 kW				
operating frequency       is 1/h         e at AC-3 maximum       15 1/h         at AC-3 maximum       15 1/h         Auxiliary circuit       design of the auxiliary and control circuit       AC/DC         number of NC contacts for auxiliary contacts       1         number of NC contacts for auxiliary contacts       1         number of CO contacts for auxiliary contacts       0         operational current of auxiliary contacts at AC-15       •         • at 23 V       0.5 A         operational current of auxiliary contacts at DC-13       •         • at 24 V       0.4         • at 250 V       0.5 A         operational current of auxiliary contacts at DC-13       •         • at 26 V       0.5 A         operational current of auxiliary contacts at DC-13       •         • at 25 V       0 A         • at 20 V       0 A         • at 215 V       0 A         • at 220 V       0 A         • at 220 V       0 A         • protective and monitoring functions         protective and monitoring functions         visual contract for auxiliary contacts       CLASS 10         design of the overload release       thermal         maximum short-circuit current breaking capacity (leu)	— at 500 V rated value	22 kW				
operating frequencyIs 1/h• at AC-3 maximum15 1/h• at AC-3 maximum15 1/hAuxiliary circuitIf answersedesign of the auxiliary and control circuitAC/DCnumber of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1number of CO contacts for auxiliary contacts0operational current of auxiliary contacts at AC-15•• at 24 V2 A• at 230 V0.5 Aoperational current of auxiliary contacts at DC-13•• at 24 V0.15 A• at 260 V0.0 A• at 250 V0 A• at 260 V0 A• at 270 V0 A• at 280 V atter 480 V rate 480 V10 A	— at 690 V rated value	30 kW				
• at AC-3 maximum       15 1/h         • at AC-3 maximum       15 1/h         Auxiliary circuit       design of the auxiliary switch       transverse         type of voltage for auxiliary control circuit       AC/DC         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 230 V       0.5 A         operational current of auxiliary contacts at DC-13       •         • at 24 V       1A         • at 220 V       0.4         • at 220 V       0 A         • at 24 O vrated value       0 KA      <	operating frequency					
Auxiliary circuit       transverse         design of the auxiliary and control circuit       AC/DC         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       2A         • at 230 V       0.5 A         operational current of auxiliary contacts at DC-13       •         • at 24 V       0.15 A         • at 24 V       0.4         • at 25 V       0.5 A         operational current of auxiliary contacts at DC-13       •         • at 24 V       0.4         • at 25 V       0.5 A         operational current of auxiliary contacts at DC-13       •         • at 26 V       0.5 A         operational current of auxiliary contacts at DC-13       •         • at 20 V       0.5 A         operational current of auxiliary contacts at DC-13       •         • at 21 V       0.4         • at 22 V       0.5 A         operational current of auxiliary contacts       0.15 A         • at 220 V       0.5 A         operational during functions       •      <		15 1/h				
design of the auxiliary switch     transverse       type of voltage for auxiliary control circuit     AC/DC       number of NC contacts for auxiliary contacts     1       number of CO contacts for auxiliary contacts     0       operational current of auxiliary contacts     0       e at 230 V     0.5 A       operational current of auxiliary contacts at DC-13     -       e at 24 V     1A       e at 00 V     0.15 A       e at 10 V     0 A       e at 125 V     0 A       e at 22 V     0 A       Protective and monitoring functions     Ves       trip class     CLASS 10       design of the overload release     thermal       maxium short-circuit current breaking capacity (Icu)     100 kA       e at AC at 500 V rated value     65 kA       e at AC at 500 V rated value     100 kA       e at AC at 500 V rated value     100 kA       e at AC at 600 V rated value     20 kA       e at 400 V rated value     5	• at AC-3e maximum	15 1/h				
design of the auxiliary switch     transverse       type of voltage for auxiliary control circuit     AC/DC       number of NC contacts for auxiliary contacts     1       number of CO contacts for auxiliary contacts     0       operational current of auxiliary contacts     0       e at 230 V     0.5 A       operational current of auxiliary contacts at DC-13     -       e at 24 V     1A       e at 00 V     0.15 A       e at 10 V     0 A       e at 125 V     0 A       e at 22 V     0 A       Protective and monitoring functions     Ves       trip class     CLASS 10       design of the overload release     thermal       maxium short-circuit current breaking capacity (Icu)     100 kA       e at AC at 500 V rated value     65 kA       e at AC at 500 V rated value     100 kA       e at AC at 500 V rated value     100 kA       e at AC at 600 V rated value     20 kA       e at 400 V rated value     5	Auxiliary circuit					
number of NC contacts for auxiliary contacts       1         number of NC contacts for auxiliary contacts       1         number of CO contacts for auxiliary contacts       0         operational current of auxiliary contacts at AC-15       0         • at 24 V       2 A         • at 230 V       0.5 A         operational current of auxiliary contacts at DC-13       0         • at 24 V       0.15 A         • at 220 V       0.4         • at 220 V       0 A         Protective and monitoring functions       Ves         • product function       Ves         • at 220 V       0 A         Protective and monitoring functions       Ves         trip class       CLASS 10         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu)       10 kA         • at AC at 240 V rated value       65 kA         • at AC at 690 V rated value       10 kA         • at	design of the auxiliary switch	transverse				
number of NO contacts for auxiliary contacts       1         number of CO contacts for auxiliary contacts       0         operational current of auxiliary contacts at AC-15       2         • at 230 V       0.5 A         operational current of auxiliary contacts at DC-13       0         • at 24 V       1A         • at 20 V       0.15 A         operational current of auxiliary contacts at DC-13       0         • at 20 V       0.15 A         • at 10 V       0.4         • at 220 V       0 A         • at 220 V       0 A         • at 10 V       0.5 A         orgenational current of auxiliary contacts at DC-13       0         • at 220 V       0 A         • at 200 V       0 A         • extraction       Yes         product function       Vers         • ground fault detection       Yes         trip class       CLASS 10         design of the overload release       thermal         maximum short-circuit current breaking capacity (Icu)       10 kA         • at AC at 400 V rated value	type of voltage for auxiliary and control circuit	AC/DC				
number of CO contacts for auxiliary contacts at AC-15       0         operational current of auxiliary contacts at AC-15       2 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         • at 10 V       0 A         • at 220 V       0 A         • at 200 V rated value       10 KA         • at 300 V rated value       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 500 V rated value       100 kA </td <td>number of NC contacts for auxiliary contacts</td> <td>1</td>	number of NC contacts for auxiliary contacts	1				
operational current of auxiliary contacts at AC-15• at 24 V2 A• at 230 V0.5 Aoperational current of auxiliary contacts at DC-13• at 24 V1 A• at 60 V0.15 A• at 110 V0 A• at 25 V0 A• at 220 V0 A• at AC at 400 V rated value100 kA• at 400 V rated value100 kA• at 400 V rated value20 kA• at 400 V rated value20 kA• at 400 V rated value5 kA• at 400 V rated value5 kA• at 400 V rated value5 kA• at 600 V rated value5 kA• at 600 V rated value5 k	number of NO contacts for auxiliary contacts	1				
• at 24 V2 A• at 230 V0.5 Aoperational current of auxiliary contacts at DC-13• at 24 V1 A• at 24 V0.15 A• at 60 V0.15 A• at 110 V0 A• at 125 V0 A• at 220 V0 AProduct functionV• optase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)100 kA• at AC at 240 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value5 kA• at 4C of 490 V rated value100 kA• at AC at 690 V rated value5 kA• at 4C at 690 V rated value20 kA• at 400 V rated value20 kA	number of CO contacts for auxiliary contacts	0				
• at 230 V0.5 Aoperational current of auxiliary contacts at DC-13I• at 24 V1 A• at 26 V0.15 A• at 10 V0 A• at 125 V0 A• at 220 V0 AProtective and monitoring functionsproduct functionVes• ground fault detectionYes• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)100 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value100 kA• at 4C ot 500 V rated value30 kA• at 400 V rated value5 kA• at 400 V rated value30 kA• at 400 V rated value5 kA• at 400 V rated value5 kA• at 600 V rated value5 kA <tr <td="">• at 600 V rated value5</tr>	operational current of auxiliary contacts at AC-15					
operational current of auxiliary contacts at DC-13• at 24 V1 A• at 60 V0.15 A• at 110 V0 A• at 125 V0 A• at 220 V0 AProtective and monitoring functionsproduct function• ground fault detection• phase failure detection• phase failure detectionVestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value• at AC at 500 V rated value• at AC at 500 V rated value• at AC at 690 V rated value• at 400 V rated value• at 600 V rated value<	• at 24 V	2 A				
• at 24 V1 A• at 60 V0.15 A• at 110 V0 A• at 112 S V0 A• at 125 V0 A• at 220 V0 AProtective and monitoring functionsproduct functionVes• ground fault detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)100 kA• at AC at 240 V rated value65 kA• at AC at 500 V rated value100 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 300 V rated value30 kA• at 400 V rated value30 kA• at 400 V rated value2 kA• at 600 V rated value5 kA• at 600 V rated value30 kA	• at 230 V	0.5 A				
• at 60 V0.15 A• at 110 V0 A• at 125 V0 A• at 220 V0 AProtective and monitoring functionsproduct function• ground fault detectionVes• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)00 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 62 at 900 V rated value100 kA• at 6300 V rated value100 kA• at 6400 V rated value100 kA• at 6400 V rated value2 kA• at 6400 V rated value2 kA• at 6400 V rated value2 kA	operational current of auxiliary contacts at DC-13					
eat 110 V0 A• at 125 V0 A• at 220 V0 AProtective and monitoring functionsProtective and monitoring functionsproduct functionNo• ground fault detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)00 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 680 V rated value10 kA• at AC at 690 V rated value100 kA• at 400 V rated value5 kA• at 600 V rated value100 kA• at 600 V rated value2 kA• at 600 V rated value2 kA	• at 24 V	1 A				
• at 125 V0 A• at 220 V0 AProtective and monitoring functionsproduct function• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)0 kA• at AC at 240 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 600 V rated value100 kA• at AC at 600 V rated value100 kA• at 240 V rated value30 kA• at 400 V rated value100 kA• at AC at 600 V rated value100 kA• at 240 V rated value20 kA• at 400 V rated value100 kA• at 400 V rated value20 kA• at 400 V rated value100 kA• at 400 V rated value100 kA• at 600 V rated value20 kA	• at 60 V	0.15 A				
• at 220 V0 AProtective and monitoring functionsproduct functionNo• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 500 V rated value65 kA• at AC at 690 V rated value100 kA• at 240 V rated value100 kA• at AC at 690 V rated value30 kA• at 400 V rated value2 kA• at 690 V rated value5 kA	• at 110 V	0 A				
Protective and monitoring functions         product function         • ground fault detection         • phase failure detection         Yes         trip class         design of the overload release         maximum short-circuit current breaking capacity (Icu)         • at AC at 240 V rated value         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at 240 V rated value         • at AC at 690 V rated value         • at 400 V rated value         • at 240 V rated value         • at 240 V rated value         • at 240 V rated value         • at 690 V rated value         • at 400 V rated value         • at 690 V rated valu	• at 125 V	0 A				
product functionNo• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)•• at AC at 240 V rated value100 kA• at AC at 240 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC• at 240 V rated value100 kA• at 240 V rated value5 kA• at 690 V rated value5 kA<	• at 220 V	0 A				
• ground fault detectionNo• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kA• at 240 V rated value30 kA• at 240 V rated value5 kA• at 260 V rated value2 kA• at 690 V rated value5 kA	Protective and monitoring functions					
• phase failure detectionYestrip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC100 kA• at 240 V rated value100 kA• at 240 V rated value5 kA• at 240 V rated value2 kA• at 690 V rated value5 kA• at 690 V rated value5 kA• at 690 V rated value5 kA	product function					
trip classCLASS 10design of the overload releasethermalmaximum short-circuit current breaking capacity (lcu)thermal• at AC at 240 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (lcs) at AC100 kA• at 240 V rated value100 kA• at 240 V rated value2 kA• at 690 V rated value520 A	<ul> <li>ground fault detection</li> </ul>	No				
design of the overload releasethermalmaximum short-circuit current breaking capacity (Icu)thermal• at AC at 240 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kA• at AC at 690 V rated value100 kA• at AC at 690 V rated value30 kA• at 240 V rated value5 kA• at 690 V rated value5 kA	phase failure detection	Yes				
maximum short-circuit current breaking capacity (Icu)• at AC at 240 V rated value100 kA• at AC at 240 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 240 V rated value100 kA• at 400 V rated value30 kA• at 500 V rated value5 kA• at 690 V rated value5 kA	trip class	CLASS 10				
• at AC at 240 V rated value100 kA• at AC at 400 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kA• operating short-circuit current breaking capacity (Ics) at AC•• at 240 V rated value100 kA• at 240 V rated value30 kA• at 500 V rated value5 kA• at 690 V rated value5 kA• at 690 V rated value5 kA• at 690 V rated value5 kA	design of the overload release	thermal				
• at AC at 400 V rated value65 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC	maximum short-circuit current breaking capacity (Icu)					
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>4 kA</li> </ul> Operating short-circuit current breaking capacity (lcs) at AC <ul> <li>at 240 V rated value</li> <li>100 kA</li> <li>at 400 V rated value</li> <li>30 kA</li> <li>at 500 V rated value</li> <li>5 kA</li> <li>at 690 V rated value</li> <li>2 kA</li> </ul> response value current of instantaneous short-circuit trip unit 520 A	• at AC at 240 V rated value	100 kA				
• at AC at 690 V rated value4 kAoperating short-circuit current breaking capacity (Ics) at AC100 kA• at 240 V rated value100 kA• at 400 V rated value30 kA• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit520 A	• at AC at 400 V rated value	65 kA				
operating short-circuit current breaking capacity (Ics) at AC• at 240 V rated value100 kA• at 400 V rated value30 kA• at 500 V rated value5 kA• at 690 V rated value2 kAresponse value current of instantaneous short-circuit trip unit520 A	• at AC at 500 V rated value	10 kA				
• at 240 V rated value       100 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       520 A	• at AC at 690 V rated value	4 kA				
e at 400 V rated value     at 500 V rated value     at 690 V rated value     z kA     response value current of instantaneous short-circuit trip unit     520 A	operating short-circuit current breaking capacity (Ics) at AC					
at 500 V rated value 5 kA     at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 520 A	• at 240 V rated value	100 kA				
• at 690 V rated value     2 kA       response value current of instantaneous short-circuit trip unit     520 A	• at 400 V rated value	30 kA				
response value current of instantaneous short-circuit trip unit 520 A	• at 500 V rated value	5 kA				
	• at 690 V rated value	2 kA				
UL/CSA ratings	response value current of instantaneous short-circuit trip unit	520 A				
	UL/CSA ratings					

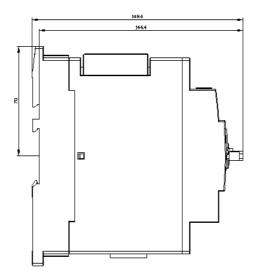
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	36 A
at 400 V rated value     at 600 V rated value	36 A
yielded mechanical performance [hp]	30 A
for single-phase AC motor     at 110/120 V rated value	2 hn
- at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
<ul> <li>for 3-phase AC motor</li> <li>— at 200/208 V rated value</li> </ul>	45 hz
— at 220/208 V rated value	15 hp
	15 hp
- at 460/480 V rated value	30 hp
at 575/600 V rated value	40 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	N
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 required	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 240 V	none required
• at 240 V	125
• at 500 V	100
• at 690 V	80
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	170 mm
with side-by-side mounting at the side	0 mm
<ul> <li>for grounded parts at 400 V</li> </ul>	· min
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
• for live parts at 400 V	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	10 mm
— downwards	50 mm
	50 mm
— upwards — at the side	10 mm
• for live parts at 500 V	
downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for live parts at 690 V</li> </ul>	
downwards	50 mm
— downwards — upwards	50 mm
•	50 mm 10 mm
— at the side Connections/ Terminals	
type of electrical connection	acrow two terminals
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom

	Special Test Certific- ate <u>ates/Test Report</u>			
General Product Approval For use in hazardous locations	Test Certificates Marine / Shipping			
General Product Approval				
approvals Certificates				
hisplay display version for switching status	Handle			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
protection class IP on the front according to IEC 60529	IP20			
61508 Electrical Safety				
<ul> <li>• for proof test interval or service life according to IEC</li> </ul>	10 a			
safety device type according to IEC 61508-2	Туре А			
IEC 61508				
overdimensioning according to ISO 13849-2 necessary	Yes			
device type according to ISO 13849-1	3			
31920 ISO 13849				
failure rate [FIT] with low demand rate according to SN	50 FIT			
B10 value with high demand rate according to SN 31920	5 000			
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>	40 % 50 %			
proportion of dangerous failures	40 %			
test wear-related service life necessary	Yes			
service life maximum	10 a			
safety-related switching OFF	Yes			
safety-related switching on	No			
product function suitable for safety function suitability for use	Yes			
afety related data	Vee			
of the auxiliary and control contacts	M3			
for main contacts	M6			
design of the thread of the connection screw				
size of the screwdriver tip	Pozidriv size 2			
for auxiliary contacts with screw-type terminals     design of screwdriver shaft	0.8 1.2 N·m Diameter 5 to 6 mm			
for main contacts with screw-type terminals	3 4.5 N·m			
tightening torque				
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)			
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for auxiliary contacts</li> <li>— solid or stranded</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
type of connectable conductor cross-sections				
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (18 3), 1x (18 2)			
— finely stranded with core end processing	2x (1 16 mm²), 1x (1 25 mm²)			
— solid or stranded	2x (1 25 mm²), 1x (1 35 mm²)			
type of connectable conductor cross-sections • for main contacts				
circuit				

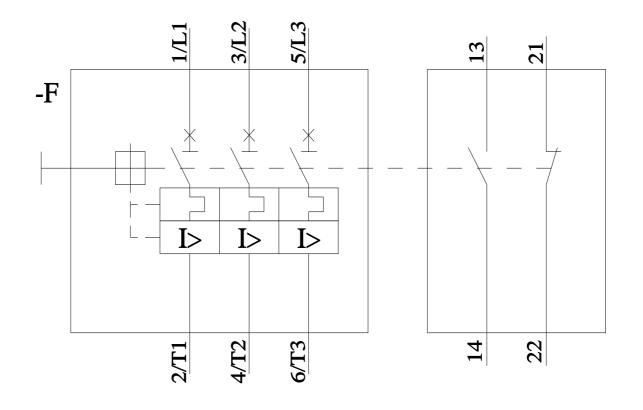
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4PA15⟨=en							
http://www.automation.siemens.com/bilddb/cax_de.aspx?mitb=3RV2031-4PA15⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current							
https://support.industry.si							
Further characteristics	(e.g. electrical endur	ance, switching frequen	<b>cy)</b> fb=3RV2031-4PA15&object				
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