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	
 at AC in hot operating state 	20 W
 at AC in hot operating state per pole 	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)	
 of the main contacts typical 	50 000
 of auxiliary contacts typical 	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	
 during operation 	-20 +60 °C
 during storage 	-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

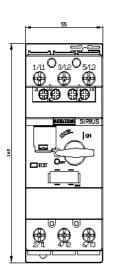
number of poles for main surverst circuit 3 30 A eigenidation contrast release 20 A poper divisitie for main surverst circuit AC opper divisitie for main surverst BO. B opper divisitie for main surverst BO. B opper divisitie for main surverst BA opper divisitie for main surverst	Main circuit					
edipathic 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	 at AC-3 rated value maximum 	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	 at AC-3e rated value maximum 	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	 at AC-3e at 400 V rated value 	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					
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• 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	 ground fault detection 	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)					
 at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value 4 kA Operating short-circuit current breaking capacity (lcs) at AC 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 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					

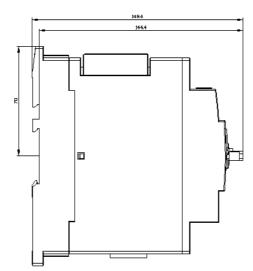
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	36 A
at 400 V rated value at 600 V rated value	36 A
yielded mechanical performance [hp]	30 A
for single-phase AC motor at 110/120 V rated value	2 hn
- at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
 for 3-phase AC motor — at 200/208 V rated value 	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
 for grounded parts at 400 V 	· 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
 for grounded parts at 500 V 	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
 for grounded parts at 690 V 	
downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for live parts at 690 V 	
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				
 • for proof test interval or service life according to IEC 	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			
 with low demand rate according to SN 31920 with high demand rate according to SN 31920 	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)			
 — finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 for auxiliary contacts — solid or stranded 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
type of connectable conductor cross-sections				
 for AWG cables for main contacts 	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				

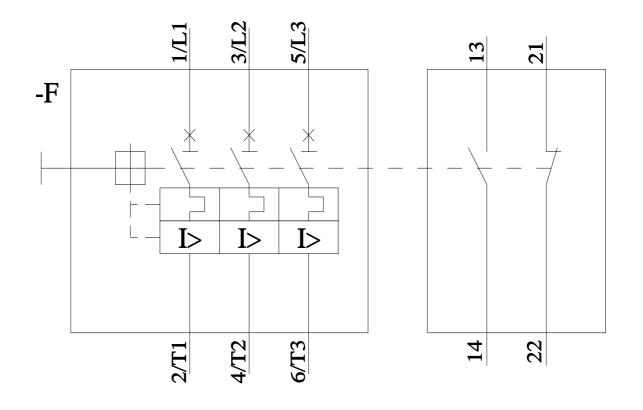
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