SIEMENS

Data sheet

3RV2021-1JA15



Circuit breaker size S0 for motor protection, CLASS 10 A-release 7...10 A N release 130 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC $\,$

product brand name SIRUS product designation Circuit breaker design of the product For motor protection product type designation 3RV2 Concrit technical data S0 size of the circuit-breaker S0 size of the circuit-breaker S0 product extension auxiliary switch Yes ord not operating state 9.25 W ord not the operating state per pole 3.1 W insulation voltage with degree of poliution 3 at AC rated value 680 V surge voltage resistance rated value 680 V surge voltage resistance rated value 610 V of drating voltage with degree of poliution 3 at AC rated value 690 V surge voltage resistance rated value 610 V of drating voltage with degree of poliution 3 at AC rated value 690 V of drating voltage with degree of poliution 3 at AC rated value 600 V surget voltage resistance rated value 600 V of drating voltage voltage voltage 100 000 of drating voltage voltage 100 000 electrical endurance (operating cycles) typical 100 1000	5/T3	
design of the product For motor protection product type designation 3RV2 ofter al tochnical data	product brand name	SIRIUS
product type designation 3RV2 General technical data	product designation	Circuit breaker
General technical data S0 size of the circuit-breaker S0 size of contactor can be combined company-specific S00, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current 9.25 W • at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 690 V shock resistance according to IEC 60068-2-27 25g /11 ms mechanical service life (operating cycles) • • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 • electrical endurance (operating cycles) typical 100 000 • of protection according to ATEX directive 2014/34/EU Ex II (2) GD Certificat of suitability according to ATEX directive 2014/34/EU Ex II (2) GD Ambient temperature 2000 m aubistation attitude at height above sea level maximum 2 000 m aubient temperature -20 +60 °C • during operation -20 +60 °C • during operation -50 +80 °C relative humidity	design of the product	For motor protection
size of the circuit-breaker S0 size of contactor can be combined company-specific S00, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current 9.25 W • at AC in hot operating state 9.25 W • at AC in hot operating state per pole 3.1 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 6068-2-27 Z5g / 11 ms mechanical service IIf (operating cycles) 100 000 • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 type of protection according to ATEX directive 2014/34/EU Extl (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 8146-2 Q Substance Prohibitance (Date) 100/1/2009 Ambient conditions -20 +60 °C • during storage -50 +60 °C • during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current. 50 +60 °C operating regress value current of the current. -50 +60 °C <	product type designation	3RV2
size of contactor can be combined company-specific S00, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current at AC in hot operating state 9.25 W at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 680 V shock resistance according to IEC 60068-2:27 25g / 11 ms mechanical service IIfe (operating cycles) • of the main contacts typical 100 000 electrical endurance (operating to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to IEC 81366-2 Q Substance Prohibitance (Date) 100/1/2009 Ambient conditions 2000 m ambient temperature 40 uring operation • during operation 2000 m ambient temperature -40 · °C • during transport 2000 m ambient temperature -80 °C • during transport 2000 m andictuit teaperation -80 °C • during transport 2000 m relative humidity during operation 10	General technical data	
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power loss [W] for rated value of the current 9.25 W • at AC in hot operating state 9.25 W • at AC in hot operating state per pole 3.1 W Insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 6 k/V shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 00 000 • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 • of auxiliary contacts typical 100 000 etrificate of suitability according to ATEX directive 2014/34/EU DXI 02 ATEX F 001 certificate of suitability according to IEC 81346-2 Q Substance Prohibitance (Date) 100/12009 Ambient conditions 100/12009 Installation alittude at height above sea level maximum 2 000 m ambient temperature -20+60 °C • during operation -50+80 °C • during transport -5060 V •	size of contactor can be combined company-specific	S00, S0
• at AC in hot operating state9.25 W• at AC in hot operating state per pole3.1 WInsulation voltage with degree of pollution 3 at AC rated value690 Vsurge voltage resistance rated value640 Vshock resistance according to IEC 60068-2.2725g / 11 msmechanical service life (operating cycles)100 000• of the main contacts typical100 000• of auxiliary contacts typical100 000electrical endurance (operating cycles) typical100 000electrical endurance (operating cycles) typical100 000type of protection according to ATEX directive 2014/34/EUEX II (2) GDCertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2QSubstance Prohibitance (Date)1001/2009Ambient conditions2 000 mambient temperature-• during operation-50 +60 °C• during operation-50 +60 °C• during storage-50 +60 °C• during transport-50 +60 °C• during transport<	product extension auxiliary switch	Yes
• at AC in hot operating state per pole3.1 WInsulation voltage with degree of pollution 3 at AC rated value690 Vsurge voltage resistance according to IEC 60068-2:2725g / 11 msmechanical service life (operating cycles)0000• of the main contacts typical100 000• of auxiliary contacts typical100 000• electrical endurance (operating cycles) typical100 000• type of protection according to ATEX directive 2014/34/EUEX II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2QSubstance Prohibitance (Date)100/1/2009Ambient conditions2000 mambient temporature2000 m• during operation-20 +60 °C• during transport-50 +60 °C </th <th>power loss [W] for rated value of the current</th> <th></th>	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 60068-2:7 25g / 11 ms mechanical service life (operating cycles) - • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 type of protection according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions - installation attude at height above sea level maximum 2 000 m adjustape carding operation -20 +60 °C • during operation -20 +60 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 adjustable current response value current of the current-dependent voleoad release	 at AC in hot operating state 	9.25 W
surge voltage resistance rated value6 kVshock resistance according to IEC 60068-2-2725g / 11 msmechanical service life (operating cycles)-• of the main contacts typical100 000• of auxiliary contacts typical100 000electrical endurance (operating cycles) typical100 000type of protection according to ATEX directive 2014/34/EUEx II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 mambient temperature-20 +60 °C• during storage-50 +80 °C• during torage-50 +80 °C• cated value-50 +60 °C• during torage-50 +80 °C• cated value-50 +60 °C <th> at AC in hot operating state per pole </th> <th>3.1 W</th>	 at AC in hot operating state per pole 	3.1 W
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mechanical service life (operating cycles)• of the main contacts typical100 000• of auxiliary contacts typical100 000electrical endurance (operating cycles) typical100 000type of protection according to ATEX directive 2014/34/EUEX II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 mambient temperature-20 +60 °C• during storage-50 +80 °C• during operation-20 +80 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3adjustable current response value current of the current- dependent overload release7 10 Aoperating voltage20 690 V• at AC-3 rated value maximum690 V	surge voltage resistance rated value	6 kV
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• of auxiliary contacts typical100 000electrical endurance (operating cycles) typical100 000type of protection according to ATEX directive 2014/34/EUEx II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 mambient temperature-20 +60 °C• during operation-20 +60 °C• during transport-50 +80 °C• during transport-50 +80 °C• during transport-50 +80 °C• during transport-50 +80 °C• during torage-50 +80 °C• during transport-50 +80 °C• during torage-50 +80 °C• during toruge-50 +80 °C• during toruge<	mechanical service life (operating cycles)	
electrical endurance (operating cycles) typical100 000type of protection according to ATEX directive 2014/34/EUEx II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 mambient temperature-• during operation-20 +60 °C• during transport-50 +80 °C• elative humidity during operation10 95 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release20 690 V• at AC-3 rated value20 690 V• at AC-3 rated value maximum690 V• operating frequency rated value50 60 Hz• operating frequency rated value50 60 Hz• operational current rated value50 60 Hz	 of the main contacts typical 	100 000
type of protection according to ATEX directive 2014/34/EUEx II (2) GDcertificate of suitability according to ATEX directive 2014/34/EUDMT 02 ATEX F 001reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 mambient temperature-20 +60 °C• during operation-20 +60 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release20 690 Voperating voltage20 690 V• at AC-3 rated value maximum690 V• at AC-3 rated value maximum690 V• operating frequency rated value50 600 Hzoperating frequency rated value50 600 Hzoperating frequency rated value50 600 Hzoperating frequency rated value50 600 Hz	 of auxiliary contacts typical 	100 000
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reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 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 operation 10 95 % Main circuit 3 relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • operating frequency rated value 50 60 Hz operating frequency rated value 50 60 Hz operational current rated value 50 60 Hz	type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
Substance Prohibitance (Date) 10/01/2009 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 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 7 10 A operating voltage - • rated value 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz operating frequency rated value 50 60 Hz	certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
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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 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release7 10 Aoperating voltage20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value50 60 Hz• operating frequency rated value50 60 Hz• operational current rated value10 A	Substance Prohibitance (Date)	10/01/2009
ambient temperature• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °C• during transport0 95 %Main circuit7number of poles for main current circuit3adjustable current response value current of the current- dependent overload release7operating voltage20 690 V• at AC-3 rated value maximum690 V• at AC-3 rated value maximum690 V• operating frequency rated value50 60 Hzoperating frequency rated value10 A	Ambient conditions	
• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release7 10 Aoperating voltage20 690 V• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3 rated value maximum50 60 Hzoperating frequency rated value10 A	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 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release7 10 Aoperating voltage20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperating frequency rated value10 A	ambient temperature	
• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release7 10 Aoperating voltage20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperating frequency rated value10 A	during operation	-20 +60 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 7 10 A operating voltage 20 690 V • rated value 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz • operational current rated value 10 A	during storage	-50 +80 °C
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 7 10 A operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz operational current rated value 10 A	during transport	-50 +80 °C
number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 7 10 A operating voltage rated value at AC-3 rated value maximum 690 V at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 10 A	relative humidity during operation	10 95 %
adjustable current response value current of the current- 7 10 A operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz operational current rated value 10 A	Main circuit	
dependent overload release Image: Constraint of the sector of the se	number of poles for main current circuit	3
• rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz • operational current rated value 10 A	•	7 10 A
• at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 10 A	operating voltage	
• at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 10 A	rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 10 A	 at AC-3 rated value maximum 	690 V
operational current rated value 10 A	• at AC-3e rated value maximum	690 V
•	operating frequency rated value	50 60 Hz
operational current	operational current rated value	10 A
	operational current	

 at AC-3 at 400 V rated value 	10 A
 at AC-3e at 400 V rated value 	10 A
operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
	VVX C. 1
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
● at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
· · · · · · · · · · · · · · · · · · ·	
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
Protective and monitoring functions	
Protective and monitoring functions	
product function	No
product function ground fault detection 	No
product functionground fault detectionphase failure detection	Yes
product function ground fault detection phase failure detection trip class	Yes CLASS 10
product function ground fault detection phase failure detection trip class design of the overload release 	Yes
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu)	Yes CLASS 10 thermal
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu)	Yes CLASS 10 thermal
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum 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	Yes CLASS 10 thermal 100 kA 100 kA 42 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 500 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 400 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 130 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 400 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 130 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 130 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 130 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 130 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 690 V rated value • at 600 V rated value • at 690 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 600 V rated value • at 690 V rated value • at 600 V rated value • at 10/120 V rated value - at 230 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A 10 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 230 V rated value • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 230 V rated value • for 3-ph	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A 10 A 10 A 10 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 200 V rated value • at 230 V rated value • at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 220/230 V rated value - at 460/480 V rated value <td>Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A 10 A 10 A 10 A 10 A 10 A</td>	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A 10 A 10 A 10 A 10 A 10 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 230 V rated value • at 230 V rated value • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - at 2	Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A 10 A 10 A 10 A 2 hp 3 hp

Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
design of the fuse link			
 for short-circuit protection of the auxiliary switch required 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400		
	A)		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height	97 mm		
width	45 mm		
depth	97 mm		
required spacing	0 mm		
• with side-by-side mounting at the side	0 mm		
 for grounded parts at 400 V — downwards 	20 mm		
	30 mm		
— upwards — at the side	30 mm 9 mm		
for live parts at 400 V			
 for five parts at 400 v downwards 	30 mm		
— upwards	30 mm		
— at the side	9 mm		
• for grounded parts at 500 V			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
 for live parts at 500 V 			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
 for grounded parts at 690 V 			
— downwards	50 mm		
— upwards	50 mm		
— backwards	0 mm		
— at the side	30 mm		
— forwards	0 mm		
 for live parts at 690 V 			
— downwards	50 mm		
— upwards	50 mm		
— backwards	0 mm		
— at the side	30 mm		
— forwards	0 mm		
Connections/ Terminals			
type of electrical connection			
 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		
circuit			
for main contacts			
for main contacts — solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
 — solid of stranded — finely stranded with core end processing 	$2x (1 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 6 \text{ mm}^2), 1x 10 \text{ mm}^2$ $2x (1 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 6 \text{ mm}^2), 1x 10 \text{ mm}^2$		
for AWG cables for main contacts	2x (1 2.3 min), 2x (2.3 6 min), 1x 16 min 2x (16 12), 2x (14 8)		
type of connectable conductor cross-sections			
for auxiliary contacts			
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 — finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 for AWG cables for auxiliary contacts 	2x (0.0 10 mm), 2x (0.1 5 2.0 mm) 2x (20 16), 2x (18 14)		
tightening torque			
 for main contacts with screw-type terminals 	2 2.5 N·m		
	0.8 1.2 N·m		
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m		

design of screwdriver	r shaft	Dia	meter 5 to 6 mm			
size of the screwdrive		Poz	idriv size 2			
design of the thread o	of the connection screw					
for main contacts			M4			
 of the auxiliary a 	nd control contacts	M3				
Safety related data						
B10 value						
 with high deman 	d rate according to SN 3192	0 5 00	00			
proportion of dangero						
 with low demand 	I rate according to SN 31920	50 9	50 %			
 with high deman 	d rate according to SN 3192	0 50 9	%			
failure rate [FIT]						
 with low demand 	I rate according to SN 31920	50 F	TIT			
	interval or service life accord		a			
protection class IP on	the front according to IEC	60529 IP20	0			
	touch protection on the front according to IEC 60529			from the front		
display version for switching status			ndle			
Certificates/ approvals						
General Product App	roval				For use in hazard-	
					ous locations	
				EHC	ATEX	
For use in hazard- ous locations	Declaration of Conform	ity	Test Certificates		Marine / Shipping	
IECEX	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping					other	
BUREAU VERITAS		Lloydis Register urs	PRS	RINA	<u>Confirmation</u>	
other	Railway					
	<u>Vibration and Shock</u>	<u>Confirmation</u>				

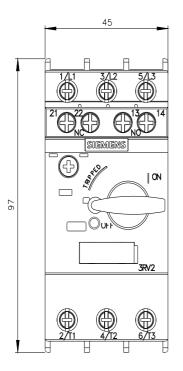
Further information

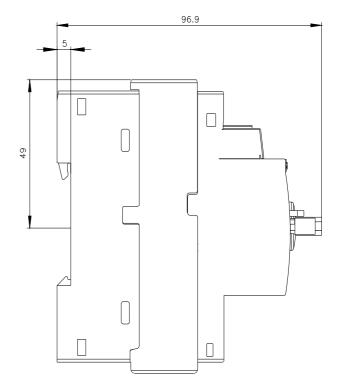
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-1JA15 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1JA15 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

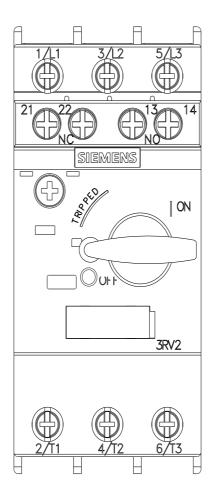
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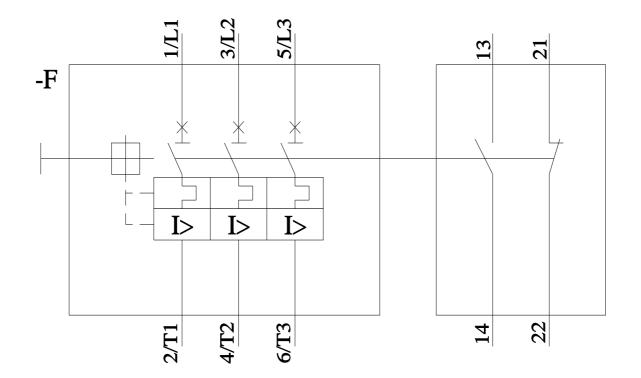
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-1JA15&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1JA15/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1JA15&objecttype=14&gridview=view1









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