SIEMENS

Data sheet 3RV2031-4VA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 35...45 A N-release 650 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 	24.5 W
 at AC in hot operating state per pole 	8.2 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
type of protection 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)	10/15/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	35 45 A
operating voltage	
• 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	45 A
operational current	

at AC-3 at 400 V rated value at AC-3e at 400 V rated value at AC-3e at 400 V rated value at AC-3 at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value 37 kW operating frequency • at AC-3 maximum • at AC-3 maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 110 V • at 125 V • at 220 V 0 A • at 220 V Protective and monitoring functions product function	11 kW 22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 16 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 kW 22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 1 2 A 0.5 A 1 A 0.15 A
operating power	11 kW 22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 16 17 1/h 17 17 1/h 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 kW 22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 1 2 A 0.5 A 1 A 0.15 A
• at AC-3 — at 230 V rated value — at 400 V rated value — at 690 V rated value • at AC-3e — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value • at AC-3 maximum 15 1/h • at AC-3 maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 600 V • at 110 V • at 110 V • at 1125 V • at 220 V Protective and monitoring functions	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 230 V rated value at 230 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 24 V rated value at 690 V rated value at 24 V rated value at 690 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
- at 500 V rated value 30 kW - at 690 V rated value 37 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 500 V rated value 30 kW - at 690 V rated value 37 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value 30 kW - at 690 V rated value 37 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s	37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
• at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value 30 kW — at 690 V rated value 37 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 230 V rated value - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW operating frequency	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at 400 V rated value	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
- at 500 V rated value - at 690 V rated value 37 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
- at 690 V rated value operating frequency • at AC-3 maximum • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	37 kW 15 1/h 15 1/h transverse s	37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
operating frequency • at AC-3 maximum • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts • at 24 V • at 230 V operational current of auxiliary contacts at AC-15 • at 24 V • at 24 V • at 25 V operational current of auxiliary contacts at DC-13 • at 24 V • at 24 V • at 25 V • at 20 V onumber of NO contacts at DC-13 • at 24 V • at 20 V onumber of NO contacts at DC-13 • at 24 V • at 20 V onumber of NO contacts at DC-13 • at 24 V • at 20 V onumber of NO contacts at DC-13 onumber of NO contacts at DC-15 onumber of NO contacts of auxiliary contacts at DC-15 onumber of NO contacts of auxiliar	15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at AC-3 maximum at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V other in the provided HTML of AC-15 at 24 V other in the provided HTML of AC-15 1 A at 24 V other in the provided HTML of AC-15 at 24 V other in the provided HTML of AC-15 other in the provided HTML	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at AC-3e maximum Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V otat 24 V otat 25 V otat 25 V otat 110 V otat 125 V otat 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	transverse 1 1 2 A 0.5 A 1 A 0.15 A
design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	1 1 2 A 0.5 A 1 A 0.15 A
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	1 1 2 A 0.5 A 1 A 0.15 A
number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V	1 2 A 0.5 A OC-13 1 A 0.15 A 0 A	1 2 A 0.5 A 1 A 0.15 A
number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V	1 2 A 0.5 A OC-13 1 A 0.15 A 0 A	1 2 A 0.5 A 1 A 0.15 A
operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	2 A 0.5 A OC-13 1 A 0.15 A 0 A	2 A 0.5 A 1 A 0.15 A
 at 24 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V OA Protective and monitoring functions 	2 A 0.5 A 0C-13 1 A 0.15 A 0 A	0.5 A 1 A 0.15 A
● at 230 V operational current of auxiliary contacts at DC-13 ● at 24 V ● at 60 V ● at 110 V ● at 125 V ● at 220 V OA Protective and monitoring functions 0.5 A 0 A 0 A 0 A 0 A	0.5 A 1 A 0.15 A 0 A	0.5 A 1 A 0.15 A
operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	0 C-13 1 A 0.15 A 0 A	1 A 0.15 A
 at 24 V at 60 V at 110 V at 125 V at 220 V O A Protective and monitoring functions 	1 A 0.15 A 0 A	0.15 A
 at 60 V at 110 V at 125 V at 220 V O A Protective and monitoring functions 	0.15 A 0 A	0.15 A
at 110 V at 125 V at 220 V Protective and monitoring functions 0 A 0 A 0 A Protective and monitoring functions	0 A	
at 125 V at 220 V Protective and monitoring functions 0 A 0 A		0 A
• at 220 V 0 A Protective and monitoring functions	0 A	
Protective and monitoring functions	V/1	0 A
	0 A	0 A
product function		
product function		· · · · · · · · · · · · · · · · · · ·
• ground fault detection No	No	
• phase failure detection Yes	Yes	No
trip class CLASS 10	163	
design of the overload release thermal		Yes
maximum short-circuit current breaking capacity (Icu)	CLASS 10	Yes CLASS 10
	CLASS 10 thermal	Yes CLASS 10 thermal
	CLASS 10 thermal	Yes CLASS 10 thermal
	CLASS 10 thermal acity (Icu) 100 kA	Yes CLASS 10 thermal 50)
	CLASS 10 thermal 100 kA 65 kA	Yes CLASS 10 thermal 100 kA 65 kA
operating short-circuit current breaking capacity (Ics) at AC	CLASS 10 thermal 100 kA 65 kA 10 kA	Yes CLASS 10 thermal 100 kA 65 kA 10 kA
	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA
	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA
	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA
	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA
	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA
at 690 V rated value 2 kA	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 10 kA 2 kA
• at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 650 A	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 10 kA 2 kA
• at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA circuit trip unit 650 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 10 kA 2 kA
● at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 650 A	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA bircuit trip unit 650 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 10 kA 2 kA
• at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA circuit trip unit 650 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 2 kA 2 kA p unit 650 A
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	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA 650 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA p unit 650 A
at 690 V rated value response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 45 A	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA 650 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA p unit 650 A
■ at 690 V rated value response value current of instantaneous short-circuit trip unit CL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 45 A 45 A	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA 650 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA p unit 650 A
at 690 V rated value response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 45 A yielded mechanical performance [hp]	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA circuit trip unit 650 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA s) at AC 100 kA 30 kA 5 kA 2 kA p unit 650 A
at 690 V rated value response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor for single-phase AC motor	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA circuit trip unit 45 A 45 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA p unit 650 A
● at 690 V rated value response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor ● at 480 V rated value ● at 600 V rated value ● at 600 V rated value ● for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 10 hp	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA circuit trip unit 45 A 45 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA p unit 650 A
● at 690 V rated value response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor ● at 480 V rated value ● at 600 V rated value ● at 600 V rated value ● for single-phase AC motor — at 110/120 V rated value — at 230 V rated value ● for 3-phase AC motor	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA 650 A 45 A 45 A 3 hp 10 hp	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA p unit 650 A 3 hp 10 hp
 at 690 V rated value response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 45 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 230 V rated value 10 hp for 3-phase AC motor at 200/208 V rated value 15 hp 	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA circuit trip unit 45 A 45 A 45 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA s) at AC 100 kA 30 kA 5 kA 2 kA p unit 650 A 45 A 45 A 45 A
 at 690 V rated value response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 45 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 15 hp at 220/230 V rated value 15 hp 	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA circuit trip unit 45 A 45 A 45 A	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA s) at AC 100 kA 30 kA 5 kA 2 kA p unit 650 A 45 A 45 A 45 A
 at 690 V rated value response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 200/203 V rated value at 240/480 V rated value hp at 460/480 V rated value at 40 hp 	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA circuit trip unit 45 A 45 A 45 A 3 hp 10 hp 15 hp 15 hp 40 hp	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA s) at AC 100 kA 30 kA 5 kA 2 kA 650 A 45 A 45 A 45 A 45 A 45 h 15 hp 15 hp 40 hp
 at 690 V rated value response value current of instantaneous short-circuit trip unit 650 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 200/230 V rated value 15 hp at 220/230 V rated value 15 hp 	CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA acity (Ics) at AC 100 kA 30 kA 5 kA 2 kA 650 A 45 A 45 A 45 A 3 hp 10 hp 15 hp 15 hp 40 hp 50 hp	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA s) at AC 100 kA 30 kA 5 kA 2 kA p unit 650 A 45 A 45 A 45 A 45 A
	() A	
at 220 V Protective and monitoring functions		0 A
• at 220 V 0 A Protective and monitoring functions		ΛΔ
• at 220 V 0 A Protective and monitoring functions	0 A	
at 125 V at 220 V Protective and monitoring functions 0 A Protective and monitoring functions		
at 125 V at 220 V Protective and monitoring functions 0 A Protective and monitoring functions		0 A
at 125 V at 220 V Protective and monitoring functions 0 A Protective and monitoring functions		0 A
at 110 V at 125 V at 220 V Protective and monitoring functions O A O A O A	0 A	
at 110 V at 125 V at 220 V Protective and monitoring functions O A O A O A	0 A	
at 110 V at 125 V at 220 V Protective and monitoring functions O A O A O A	0 A	
 at 60 V at 110 V at 125 V at 220 V O A Protective and monitoring functions 	0 A	
• at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions 0.15 A 0 A 0 A	0.15 A 0 A	0.15 A
• at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions 0.15 A 0 A 0 A	0.15 A 0 A	0.15 A
• at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions 0.15 A 0 A 0 A	0.15 A 0 A	0.15 A
 at 24 V at 60 V at 110 V at 125 V at 220 V O A Protective and monitoring functions 	1 A 0.15 A 0 A	0.15 A
 at 24 V at 60 V at 110 V at 125 V at 220 V O A Protective and monitoring functions 	1 A 0.15 A 0 A	0.15 A
 at 24 V at 60 V at 110 V at 125 V at 220 V O A Protective and monitoring functions 	1 A 0.15 A 0 A	0.15 A
operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	0 C-13 1 A 0.15 A 0 A	1 A 0.15 A
operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	0 C-13 1 A 0.15 A 0 A	1 A 0.15 A
• at 230 ∨	0.5 A 1 A 0.15 A 0 A	0.5 A 1 A 0.15 A
 at 24 V at 230 V 0.5 A operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V Protective and monitoring functions 	2 A 0.5 A 0C-13 1 A 0.15 A 0 A	0.5 A 1 A 0.15 A
 at 24 V at 230 V 0.5 A operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V Protective and monitoring functions 	2 A 0.5 A 0C-13 1 A 0.15 A 0 A	0.5 A 1 A 0.15 A
operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	2 A 0.5 A OC-13 1 A 0.15 A 0 A	2 A 0.5 A 1 A 0.15 A
operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	2 A 0.5 A OC-13 1 A 0.15 A 0 A	2 A 0.5 A 1 A 0.15 A
number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 o at 24 V o at 230 V operational current of auxiliary contacts at DC-13 o at 24 V o at 60 V o at 110 V o at 125 V o at 220 V Protective and monitoring functions	1 2 A 0.5 A OC-13 1 A 0.15 A 0 A	1 2 A 0.5 A 1 A 0.15 A
number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	1 2 A 0.5 A OC-13 1 A 0.15 A 0 A	1 2 A 0.5 A 1 A 0.15 A
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	1 1 2 A 0.5 A 1 A 0.15 A
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 o at 24 V o at 230 V operational current of auxiliary contacts at DC-13 o at 24 V o at 60 V o at 110 V o at 125 V o at 220 V Protective and monitoring functions	1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	1 1 2 A 0.5 A 1 A 0.15 A
design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	1 1 2 A 0.5 A 1 A 0.15 A
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	transverse 1 1 2 A 0.5 A 1 A 0.15 A
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	transverse 1 1 2 A 0.5 A 1 A 0.15 A
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	transverse 1 1 2 A 0.5 A 1 A 0.15 A
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	transverse 1 1 2 A 0.5 A 1 A 0.15 A
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	transverse 1 1 2 A 0.5 A 1 A 0.15 A
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	transverse 1 1 2 A 0.5 A 1 A 0.15 A
at AC-3e maximum Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	transverse 1 1 2 A 0.5 A 1 A 0.15 A
at AC-3e maximum Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 110 V at 125 V at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at AC-3 maximum at AC-3e maximum be at AC-3e maximum Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 at 24 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 60 V at 110 V at 110 V at 125 V at 220 V Protective and monitoring functions	transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
operating frequency • at AC-3 maximum • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
operating frequency • at AC-3 maximum • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
— at 690 V rated value operating frequency	37 kW 15 1/h 15 1/h transverse s	37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
— at 690 V rated value operating frequency • at AC-3 maximum • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts • at 24 V • at 230 V operational current of auxiliary contacts at AC-15 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V Protective and monitoring functions	37 kW 15 1/h 15 1/h transverse s	37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at 500 V rated value 30 kW at 690 V rated value 37 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 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 1 A • at 60 V 0.15 A • at 110 V 0 A • at 125 V 0 A • at 220 V Protective and monitoring functions	30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at 500 V rated value 30 kW at 690 V rated value 37 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxilliary circuit design of the auxiliary switch transverse number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 60 V • at 125 V • at 220 V Protective and monitoring functions	30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at 500 V rated value 30 kW at 690 V rated value 37 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxilliary circuit design of the auxiliary switch transverse number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 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 1 A • at 60 V 0.15 A • at 110 V 0 A • at 125 V 0 A • at 220 V Protective and monitoring functions	30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at AC-3 maximum at AC-4 m	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at AC-3 maximum at AC-4 m	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at 230 V rated value	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at 230 V rated value	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value — at 600 V rated value 30 kW operating frequency at AC-3 maximum 15 1/h at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 2 A at 24 V at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 60 V at 110 V at 60 V at 125 V at 220 V Protective and monitoring functions	11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value 30 kW - at 690 V rated value 31 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 125 V • at 220 V Protective and monitoring functions	37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s	37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
- at 690 V rated value	37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s	37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
at 500 V rated value 30 kW at 690 V rated value 37 kW • at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW at 500 V rated value 30 kW at 690 V rated value 37 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch tansverse number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts 4 AC-15 • at 24 V 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 110 V 0 A • at 125 V 0 A • at 220 V Protective and monitoring functions	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
at 500 V rated value 30 kW at 690 V rated value 37 kW • at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW at 500 V rated value 30 kW at 690 V rated value 37 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch tansverse number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts 4 AC-15 • at 24 V 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 110 V 0 A • at 125 V 0 A • at 220 V Protective and monitoring functions	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 400 V rated value - at 500 V rated value - at 690 V rated value 30 kW - at 690 V rated value 37 kW ■ at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW operating frequency ■ at AC-3 maximum 15 1/h ■ at AC-3 maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 ■ at 24 V ■ at 230 V operational current of auxiliary contacts at DC-13 ■ at 24 V ■ at 60 V ■ at 110 V ■ at 110 V ■ at 125 V ■ at 125 V ■ at 220 V Protective and monitoring functions	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 230 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 230 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
- at 400 V rated value - at 500 V rated value - at 690 V rated value 30 kW - at 690 V rated value 37 kW ■ at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW operating frequency ■ at AC-3 maximum 15 1/h ■ at AC-3 maximum 15 1/h Auxillary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 ■ at 24 V ■ at 230 V operational current of auxiliary contacts at DC-13 ■ at 24 V ■ at 60 V ■ at 110 V ■ at 110 V ■ at 125 V ■ at 125 V ■ at 220 V Protective and monitoring functions	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
- at 400 V rated value - at 500 V rated value - at 690 V rated value 30 kW - at 690 V rated value 37 kW ■ at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW operating frequency ■ at AC-3 maximum 15 1/h ■ at AC-3 maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 ■ at 24 V ■ at 230 V operational current of auxiliary contacts at DC-13 ■ at 24 V ■ at 60 V ■ at 110 V ■ at 110 V ■ at 125 V ■ at 125 V ■ at 220 V Protective and monitoring functions	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
- at 400 V rated value - at 500 V rated value - at 690 V rated value 30 kW - at 690 V rated value 37 kW ■ at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW operating frequency ■ at AC-3 maximum 15 1/h ■ at AC-3 maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 ■ at 24 V ■ at 230 V operational current of auxiliary contacts at DC-13 ■ at 24 V ■ at 60 V ■ at 110 V ■ at 110 V ■ at 125 V ■ at 125 V ■ at 220 V Protective and monitoring functions	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 400 V rated value 22 kW at 500 V rated value 30 kW at 690 V rated value 37 kW ■ at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW at 500 V rated value 30 kW at 690 V rated value 37 kW operating frequency ■ at AC-3 maximum 15 1/h ■ at AC-3 maximum 15 1/h Auxiliary circuit design of the auxiliary switch transverse number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts 4 AC-15 ■ at 24 V 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 110 V 0 A ■ at 125 V 0 A ■ at 125 V 0 A ■ at 220 V OProtective and monitoring functions	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
- at 230 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 400 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 400 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 400 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 400 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
- at 230 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 400 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
at 400 V rated value	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A OC-13 1 A 0.15 A 0 A	22 kW 30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A
- at 500 V rated value 30 kW 37 kW • at AC-3e	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 500 V rated value - at 690 V rated value 37 kW ■ at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 690 V rated value 30 kW - at 690 V rated value 37 kW Operating frequency ■ at AC-3 maximum 15 1/h ■ at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts ■ at 24 V ■ at 230 V Operational current of auxiliary contacts at DC-13 ■ at 24 V ■ at 110 V ■ at 110 V ■ at 115 V ■ at 125 V ■ at 125 V ■ at 220 V Protective and monitoring functions	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 500 V rated value - at 690 V rated value 37 kW ■ at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW Operating frequency ■ at AC-3 maximum 15 1/h ■ at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 ■ at 24 V ■ at 230 V Operational current of auxiliary contacts at DC-13 ■ at 24 V ■ at 110 V ■ at 110 V ■ at 115 V ■ at 125 V ■ at 220 V Protective and monitoring functions	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 500 V rated value - at 690 V rated value 37 kW ■ at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 690 V rated value 30 kW - at 690 V rated value 37 kW operating frequency ■ at AC-3 maximum 15 1/h ■ at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts 1 at 24 V 1 at 230 V 0 operational current of auxiliary contacts at DC-13 ■ at 24 V ■ at 60 V ■ at 110 V ■ at 110 V ■ at 125 V ■ at 125 V ■ at 220 V Protective and monitoring functions	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
at 500 V rated value 30 kW at 690 V rated value 37 kW • at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW at 500 V rated value 37 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3 maximum 15 1/h • at AC-3 maximum 15 1/h Auxiliary circuit design of the auxiliary switch transverse number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts 4 AC-15 • at 24 V 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 110 V 0 A • at 125 V 0 A • at 220 V 0 A Protective and monitoring functions	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 500 V rated value - at 690 V rated value 37 kW ■ at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW operating frequency ■ at AC-3 maximum 15 1/h ■ at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts 1 operational current of auxiliary contacts at AC-15 ■ at 24 V ■ at 230 V operational current of auxiliary contacts at DC-13 ■ at 24 V ■ at 60 V ■ at 110 V ■ at 110 V ■ at 125 V ■ at 125 V ■ at 220 V Protective and monitoring functions	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value 30 kW - at 690 V rated value 31 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • at 24 V • at 230 V operational current of auxiliary contacts at AC-13 • at 24 V • at 660 V • at 110 V • at 60 V • at 125 V • at 125 V • at 125 V • at 220 V Protective and monitoring functions	37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s	37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h transverse 1 1 2 A 0.5 A 1 A 0.15 A
- at 500 V rated value 30 kW - at 690 V rated value 37 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 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 NC contacts for auxiliary contacts 1 operational current of auxiliary contacts 4 AC-15 • at 24 V 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 110 V 0 A • at 125 V 0 A • at 220 V 0 OA	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
at 500 V rated value 30 kW at 690 V rated value 37 kW • at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW at 500 V rated value 30 kW at 690 V rated value 37 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3e maximum 15 1/h Auxiliary circuit design of the auxiliary switch tanswerse number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 operational current of auxiliary contacts 4 AC-15 • at 24 V 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 110 V 0 A • at 125 V 0 A • at 220 V Protective and monitoring functions	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A
- at 500 V rated value 30 kW - at 690 V rated value 37 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 37 kW	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h transverse s 1 s 1 AC-15 2 A 0.5 A 0C-13 1 A 0.15 A 0 A	30 kW 37 kW 11 kW 22 kW 30 kW 37 kW 15 1/h 15 1/h 15 1/h 1 1 2 A 0.5 A 1 A 0.15 A

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 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 400 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	0 mm
with side-by-side mounting at the side for grounded parts at 400 V	0 mm
for grounded parts at 400 V— downwards	50 mm
	50 mm
— upwards— at the side	10 mm
at the side for live parts at 400 V	10 111111
Tor live parts at 400 v — downwards	50 mm
— downwards — upwards	50 mm
— upwards — at the side	10 mm
for grounded parts at 500 V	10 11111
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
• for live parts at 500 V	10 11111
— 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
— upwards	50 mm
— at the side	10 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 circuit	Top and bottom
type of connectable conductor cross-sections	
• for main contacts	
— solid or stranded	2x (1 25 mm²), 1x (1 35 mm²)
 finely stranded with core end processing 	2x (1 16 mm²), 1x (1 25 mm²)
for AWG cables for main contacts	2x (18 3), 1x (18 2)
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)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
tightening torque	
 for main contacts with screw-type terminals 	3 4.5 N·m

 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
• for main contacts	M6
 of the auxiliary and control contacts 	M3
Safety related data	
B10 value	
 with high demand rate according to SN 31920 	5 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	50 %
 with high demand rate according to SN 31920 	50 %
failure rate [FIT]	
 with low demand rate according to SN 31920 	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle
Certificates/ approvals	

General Product Approval

For use in hazardous locations

Confirmation





<u>KC</u>





For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping











Confirmation

other

other

Railway



Vibration and Shock

Confirmation

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=3RV2031-4VA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4VA15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

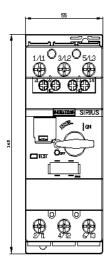
https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4VA15

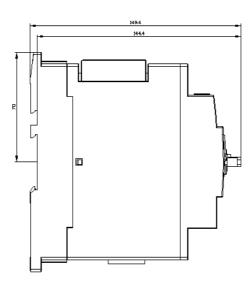
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4VA15&lang=en

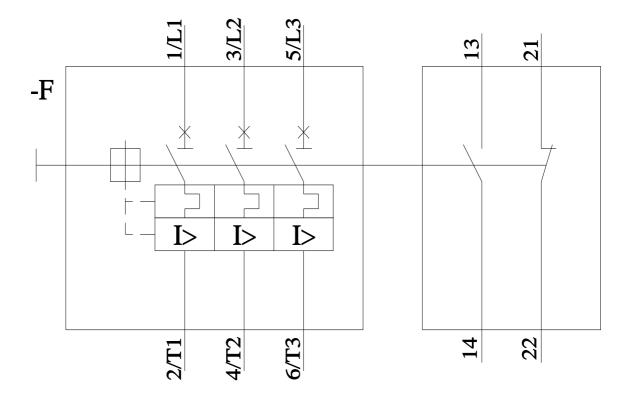
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4VA15/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4VA15&objecttype=14&gridview=view1









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