SIEMENS

Data sheet 3RV2431-4JA10



Circuit breaker size S2 for transformer protection A-release 54...65 A N-release 1040 A screw terminal Standard switching capacity

product designation design of the product product type designation 3RV2 General technical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch	product brand name	SIRIUS
Second technical data Second the circuit-breaker Second technical data Second the circuit-breaker Second technical data Second the circuit-breaker Second technical data Second techni	product designation	Circuit breaker
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch Power loss [W] for rated value of the current • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 get of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical electrical endurance (switching cycles) voltage reording to IEC 81346-2 Quoun sustance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum aubient temperature olduring storage olduring storage olduring storage olduring transport relative humidity during operation voltage adjustable current response value current of the current-dependent overload release operating voltage orated value at AC-3 rated value maximum operational current rated value operational current	design of the product	For transformer protection
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state per less at AC in hot operating less at AC in hot less at AC in hot operating less at AC in hot less at AC	product type designation	3RV2
size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state 26 W • at AC in hot operating state per pole 8.7 W insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (switching cycles) • of the main contacts typical 20 000 • of auxiliary contacts typical 20 000 electrical endurance (switching cycles) typical 20 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 03/01/2017 Ambient conditions installation allitude at height above sea level maximum ambient temperature • during operation -20 +60 °C • during storage -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 operating voltage • rated value • at AC-3e rated value maximum 690 V • at AC-3e rated value walue current of the current of textory at AC-3e rated value operation al current rated value operational current rated value operational current rated value operational current	General technical data	
product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole surge voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical electrical endurance (switching cycles) lypical 20 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) ambient conditions installation altitude at height above sea level maximum ambient temperature eluting operation -20 +60 °C eluting storage eluting 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 operating voltage erated value at AC-3 rated value maximum eat AC-3 rated value operational current	size of the circuit-breaker	S2
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at AC in hot operating state 26 W at AC in hot operating state per pole 8.7 W insulation voltage with degree of pollution 3 at AC rated value 690 V value 50 V value	product extension auxiliary switch	Yes
at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms Sinus mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical preference code according to IEC 81346-2 Quunty Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during storage of during storage of during storage of during transport relative humidity during operation Main circuit adjustable current response value current of the current-dependent overload release operating voltage orated value at AC-3e rated value maximum operation let AC-3e rated value maximum operational current rated value operational current of the current of the current operational current rated value operational current rated value operational current rated value operational current of the volume to the current of the volume to the volume to the volume	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of the main contacts typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Quoto reference code according to IEC 81346-2 Qubstance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operational current rated value operational current other in the Sinus at AC Sinus contact AC	 at AC in hot operating state 	26 W
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shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of the main contacts typical lelectrical endurance (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) nstallation altitude at height above sea level maximum ambient temperature olduring operation olduring storage olduring transport relative humidity during operation mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage orated value at AC-3 rated value maximum operating frequency rated value operational current rated value	9 9	690 V
mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current rated value	surge voltage resistance rated value	6 kV
of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) O3/01/2017 Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring operation ouring storage oduring storage ouring transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum eat AC-3 rated value maximum operating frequency rated value operational current	shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
of auxiliary contacts typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring operation during storage during transport relative humidity during operation Adin circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operational current rated value operational current o3/4/10/10/10/10/10/10/10/10/10/10/10/10/10/	mechanical service life (switching cycles)	
electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operational current rated value operational current rated value operational current rated value operational current rated value operational current rated value operational current rated value operational current	 of the main contacts typical 	20 000
reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • rated value maximum • at AC-3 rated value maximum operating frequency rated value operational current	of auxiliary contacts typical	20 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • 690 V operating frequency rated value operational current rated value operational current rated value 65 A operational current 03/01/2017 2 000 m -20 +60 °C -50 +80 °	electrical endurance (switching cycles) typical	20 000
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value operational current rated value operational current rated value operational current 2 000 m 2 0 +60 °C -20 +60 °C -50 +80 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value operational current rated value operational current rated value operational current rated value 65 A operational current rated value 65 A	Substance Prohibitance (Date)	03/01/2017
ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value operational current rated value 65 A operational current rated value 65 A operational current rated value 65 A	Ambient conditions	
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 during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum at AC-3e rated value maximum operating frequency rated value operational current rated value operational current 	 during operation 	-20 +60 °C
relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 65 A operational current	during storage	-50 +80 °C
Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • rated value maximum • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value 65 A operational current	during transport	-50 +80 °C
number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value operational current 3 54 65 A 52 54 65 A 53 690 V	relative humidity during operation	10 95 %
adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value operational current	Main circuit	
current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value operational current	number of poles for main current circuit	3
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 at AC-3 rated value maximum at AC-3e rated value maximum operating frequency rated value operational current rated value operational current 	operating voltage	
 at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current 65 A 	• rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 65 A operational current	 at AC-3 rated value maximum 	690 V
operational current rated value 65 A operational current	 at AC-3e rated value maximum 	690 V
operational current	operating frequency rated value	50 60 Hz
	operational current rated value	65 A
• at AC-3 at 400 V rated value 65 A	operational current	
	at AC-3 at 400 V rated value	65 A

* at AC-3e at 400 V rated value operating power * at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — 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 operating frequency * at AC-3 maximum 15 1/h Auxillary circuit number of NC contacts for auxillary contacts number of NO contacts for auxillary contacts product function * ground fault detection * ground fault detection * ground fault detection * product function product function product function * ground fault detection * ground fault detec
* at AC-3 - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 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 - 20 V rated value - 20 V rated value - 20 V rated value - 21 AC at 400 V rated value - 21 AC - 22 AC - 23 Passe AC motor - 24 AC at 400 V rated value - 25 AC - 26 AC - 27 Passe AC motor - 27 Passe AC motor - 28 AC - 28 Passe AC motor - 29 Passe AC motor - 20 AC - 20 Passe AC motor - 21 AC - 20 Passe AC motor - 21 AC - 20 Passe AC motor - 21 AC - 20 Passe AC motor - 22 AC - 20 Passe AC motor - 23 AC - 20 Passe AC motor - 24 AC - 20 Passe AC motor - 25 AC - 20 Passe AC motor -
- at 230 V rated value
at 400 V rated value
at 500 V rated value
= at 690 V rated value
at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — 55 kW operating frequency • at AC-3e maximum • at AC-3e maximum 15 1/h • at AC-3e maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts product function • ground fault detection • phase failure detection • prosund fault detection • phase failure detection * or ground fault detection • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 500 V rated value • at 600 V r
at 230 V rated value 30 kW at 400 V rated value 45 kW at 500 V rated value 55 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3 emaximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 protective and monitoring functions product function • ground fault detection No • phase failure detection Yes trip class CLASS 10 design of the overload release themale breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value 65 kA • at AC at 400 V rated value 8 kA • at AC at 590 V rated value 4 kA breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value 5 kA • at 400 V rated value 100 kA • at 400 V rated value 5 kA • at 400 V rated value 5 kA • at 400 V rated value 5 kA • at 690 V rated value 5 kA • at 690 V rated value 5 kA • at 690 V rated value 5 kA • at 690 V rated value 6 kA • at 690 V rated value 6 kA • at 690 V rated value 7 kA • at 690 V rated value 7 kA • at 690 V rated value 9 k
at 400 V rated value
at 500 V rated value 55 kW at 690 V rated value 55 kW operating frequency • at AC-3 maximum 15 1/h • at AC-3 e maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts product function • ground fault detection No • phase failure detection Yes trip class CLASS 10 design of the overload release therewise 65 kA • at AC at 240 V rated value 65 kA • at AC at 400 V rated value 4 kA • at AC at 500 V rated value 4 kA breaking capacity maximum short-circuit current (Ics) at AC • at 240 V rated value 4 kA breaking capacity operating short-circuit current (Ics) at AC • at 400 V rated value 5 kA • at 400 V rated value 9 skA • at 400 V rated value 100 kA • at 400 V rated value 5 kA • at 500 V rated value 5 kA • at 400 V rated value 5 kA • at 400 V rated value 5 kA • at 500 V rated value 5 kA • at 400 V rated value 5 kA • at 400 V rated value 5 kA • at 400 V rated value 6 kA • at 600 V rated value 6 kA •
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at AC-3e maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts Protective and monitoring functions product function ground fault detection opasse failure detection trip class CLASS 10 design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 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 400 V rated value at AC at 500 V rated value at AC at 400 V rated value at 400 V r
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number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection • trip class CLASS 10 design of the overload release breaking capacity maximum short-circuit current (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 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 500 V rated value • at 690 V rated value
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product function • ground fault detection • phase failure detection Yes trip class CLASS 10 design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at AC at 500 V rated value 100 kA • at 400 V rated value • at 400 V rated value • at 5 kA • at 690 V rated value 1040 A punit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value
product function • ground fault detection • phase failure detection Yes trip class CLASS 10 design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at AC at 500 V rated value 100 kA • at 400 V rated value • at 400 V rated value • at 5 kA • at 690 V rated value 1040 A punit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value
• ground fault detection • phase failure detection Yes trip class CLASS 10 design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 550 V rated value • at AC at 550 V rated value • at AC at 690 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 690 V rated value
trip class CLASS 10 design of the overload release thermal breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value 65 kA • at AC at 500 V rated value 8 kA • at AC at 690 V rated value 4 kA breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value 5 kA • at AC at 690 V rated value 100 kA • at 400 V rated value 20 kA • at 690 V rated value 100 kA • at 400 V rated value 20 kA • at 690 V rated value 30 kA • at 690 V rated value 5 kA • at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 1040 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 65 A • at 600 V rated value 65 A
trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 690 V rated value init UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 690 V rated value •
design of the overload release breaking capacity maximum short-circuit current (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 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value 100 kA • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 65 kA • at 690 V rated value 7 kA 1040 A IUL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value
breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value presponse 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 • at 600 V rated value
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 breaking capacity operating short-circuit current (Ics) at AC 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 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 at 600 V rated value
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at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value breaking capacity operating short-circuit current (Ics) at 460 V rated value capacity operating short-circuit trip unit 1 040 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 480 V rated value breaking capacity operating short-circuit trip at 480 V rated value breaking capacity operating short-circuit trip at 480 V rated value breaking capacity operating short-circuit trip at 480 V rated value breaking capacity operating short-circuit trip at 480 V rated value breaking capacity operating short-circuit trip at 480 V rated value breaking capacity operating short-circuit trip at 480 V rated value breaking capacity operating short-circuit current (Ics) at 480 V rated value breaking capacity operating short-circuit current (Ics) at 480 V rated value breaking capacity operating short-circuit current (Ics) at 480 V rated value breaking capacity operating short-circuit current (Ics) at 480 V rated value breaking capacity operating short-circuit current (Ics) at 480 V rated value breaking capacity operations short-circuit trip at 480 V rated value breaking capacity operations short-circuit trip at 480 V rated value breaking capacity operations short-circuit trip at 480 V rated value breaking capacity operations short-circuit trip at 65 A breaking capacity operations
at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 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 at 690 V rated value 65 A at 690 V rated value 65 A full-load current (FLA) for 3-phase AC motor at 480 V rated value 65 A at 690 V rated value 65 A for 3-phase AC motor
breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 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 • at 600 V rated value for 3-phase AC motor for 3-phase AC motor
at AC • at 240 V rated value • at 400 V rated value • at 500 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 • at 600 V rated value • at 600 V rated value • for 3-phase AC motor • for 3-phase AC motor
at 400 V rated value at 500 V rated value tesponse 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 at 600 V rated value at 600 V rated value for 3-phase AC motor yielded mechanical performance [hp] for 3-phase AC motor
 at 500 V rated value at 690 V rated value 2 kA 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 at 600 V rated value for 3-phase AC motor for 3-phase AC motor
 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 at 600 V rated value for 3-phase AC motor for 3-phase AC motor
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 • at 600 V rated value yielded mechanical performance [hp] • for 3-phase AC motor
unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 65 A • at 600 V rated value 62 A yielded mechanical performance [hp] • for 3-phase AC motor
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value for 3-phase AC motor 65 A 62 A yielded mechanical performance [hp] • for 3-phase AC motor
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value for 3-phase AC motor 65 A 62 A yielded mechanical performance [hp] • for 3-phase AC motor
 at 480 V rated value at 600 V rated value 62 A yielded mechanical performance [hp] for 3-phase AC motor
at 600 V rated value 62 A
yielded mechanical performance [hp] • for 3-phase AC motor
• for 3-phase AC motor
THE COMMON TOTAL VALUE
— at 200/206 V rated value 20 hp — at 220/230 V rated value 25 hp
— at 460/480 V rated value 50 hp
— at 575/600 V rated value 50 hp — at 575/600 V rated value 60 hp
·
Short-circuit protection
product function short circuit protection Yes
design of the short-circuit trip magnetic
Installation/ mounting/ dimensions
mounting position any
fastening method screw and snap-on mounting onto 35 mm standard mounting rail
according to DIN EN 60715
height 140 mm
width 55 mm
depth 149 mm
required spacing
• for grounded parts at 400 V
— downwards 50 mm

upwarde	50 mm
— upwards — at the side	50 mm 10 mm
	10 111111
• for live parts at 400 V	FO
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
for grounded parts at 500 V	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for live parts at 500 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
 for live parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for an also accompany also with	screw-type terminals
for main current circuit	
arrangement of electrical connectors for main current	Top and bottom
arrangement of electrical connectors for main current circuit	
arrangement of electrical connectors for main current	
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²)
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²)
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 %
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 %
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 %
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 y
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 y IP20
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 y IP20 finger-safe, for vertical contact from the front
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 % IP20 finger-safe, for vertical contact from the front





Confirmation



<u>KC</u>



Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other











Confirmation

other

Railway



Confirmation

Vibration and Shock

Further information

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=3RV2431-4JA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2431-4JA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2431-4JA10

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

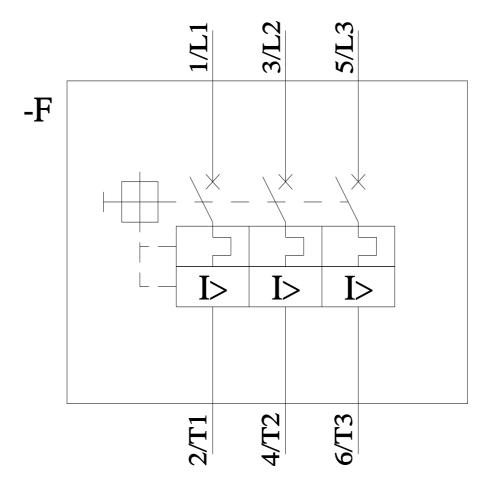
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2431-4JA10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2431-4JA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2431-4JA10&objecttype=14&gridview=view1



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