## **SIEMENS**

Data sheet 3RV2121-4BA10





Circuit breaker size S0 for motor protection, CLASS 10 with overload relay function A-release 13...20 A N-release 260 A screw terminal Standard switching capacity



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 • 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  mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of auxiliary contacts (operating cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  mobient conditions  installation altitude at height above sea level maximum  ambient temperature • during operation • during storage • during storage • during storage • during transport  relative humidity during operation  10 95 %	product brand name	SIRIUS	
product type designation 3RV2  General technical data  size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch yes  power loss [W] for rated value of the current • at AC in hot operating state per pole at AC in hot operating state per pole at AC in hot operating state per pole surge voltage resistance rated value shock resistance according to IEC 60068-2-27 of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical of auxiliary contacts typical of auxiliary contacts typical lectrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead -7439-92-1 Weight Ambient conditions  installation altitude at height above sea level maximum a during operation of during storage of during transport relative humidity during operation  auding operation of poles for main current circuit adjustable current response value current of the current-dependent overload release or parting voltage or atted value  2 0 690 V	product designation	Circuit breaker	
size of the circuit-breaker S0	design of the product	For motor protection with overload relay function	
size of the circuit-breaker size of contactor can be combined company-specific size of contactor can be combined company-specific product extension auxiliary switch ear AC in hot operating state ear AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value surge voltage resistance rated value 66 kV shock resistance according to IEC 60068-2-27 28g / 11 ms mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/1/2009 SVHC substance name Lead - 7439-92-1 Weight 0.42 kg Ambient conditions installation allitude at height above sea level maximum ambient temperature during operation 4 during storage during transport 50+80 °C relative humicility during operation 1095 % Main circuit  number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release or part of the current-dependent overload release or rated value 2 0 690 V	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 • at AC in hot operating state per pole surge voltage resistance rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of where the contact of the Carrent of the current of the current of the current operating overlage • of according to IEC 81346-2 Question of Prohibitance (Date)  SVHC substance name Lead - 7439-92-1 Weight 0.42 kg  Ambient conditions  Installation altitude at height above sea level maximum of during operation • during operation • during storage • during transport  • 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  800, S00, S00  10 950  10 960 V	General technical data		
product extension auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state 10.5 W at AC in hot operating state 93.5 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  mechanical service life (operating cycles)  of the main contacts typical 100 000  electrical endurance (operating cycles) typical 100 000  electrical endurance (operating cycles) typical 100 000  reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009  SVHC substance name Lead - 7439-92-1  Weight 0.42 kg  Ambient temperature  olduring operation -20 +60 °C  during storage 50 +80 °C  elduring transport 50 +80 °C  elduring transport 50 +80 °C  elduring transport 50 +80 °C  mumber of poles for main current circuit 3  adjustable current response value current of the current-dependent overload release  operating voltage  e rated value 20 690 V	size of the circuit-breaker	S0	
power loss [W] for rated value of the current  • at AC in hot operating state • 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  mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SYHC substance name Lead - 7439-92-1 Weight 0.42 kg Anbient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 +80 °C relative humidity during operation 10 +80 °C relative humidity during operation 20 +80 °C relative humidity during operation 3 adjustable current response value current of the current-dependent overload release operating voltage • rated value  • rated value  • rated value  10 690 V	size of contactor can be combined company-specific	S00, S0	
at AC in hot operating state at AC in hot operating state per pole at AC in hot operating state per pole 3.5 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms  mechanical service life (operating cycles)  of the main contacts typical 100 000 of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical 100 000 electrical endurance (Date) 20 Uol 100 000  SVHC substance Prohibitance (Date) 10/01/2009  SVHC substance name Lead - 7439-92-1 Weight 0.42 kg  Ambient conditions  installation altitude at height above sea level maximum 2000 m amblent temperature of during operation -50 +80 °C -60 +80 °C -60 +80 °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  e rated value  20 690 V	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  mechanical service life (operating cycles)  • of the main contacts typical  • of auxiliary contacts typical  lou 000  electrical endurance (operating cycles) typical  lou 000  electrical endurance (operating cycles) typical  lou 000  electrical endurance (operating cycles) typical  lou 000  substance Prohibitance (Date)  Substance Prohibitance (Date)  Substance Prohibitance (Date)  Substance Individual  weight  0.42 kg  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  • att AC rated value  3.5 W  show  state V  state	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  z5g / 11 ms  mechanical service life (operating cycles)  of the main contacts typical  of auxiliary contacts typical  electrical endurance (operating cycles) typical  reference code according to IEC 81346-2  Q Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  0.42 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  of during operation  of during storage  of during transport  relative humidity during operation  adjustable current response value current of the current-dependent overload release  operating voltage  orated value  at Comment of the Comment of the current-dependent overload release  operating voltage  orated value  at Comment of the Comment of the current-dependent overload release  operating voltage  orated value  of the MV  at Comment overload release  operating voltage  orated value  at Comment overload release  operating voltage  orated value  of the comment overload release  operating voltage  orated value  of the comment overload release  operating voltage  orated value  of the comment overload release  operating voltage  orated value  of the comment overload release  operating voltage  orated value  of the visual stance of the visual stance over the current overload release  operating voltage  orated value	<ul> <li>at AC in hot operating state</li> </ul>	10.5 W	
surge voltage resistance rated value 6 kV  shock resistance according to IEC 60068-2-27 25g / 11 ms  mechanical service life (operating cycles)  • of the main contacts typical 100 000  • of auxiliary contacts typical 100 000  reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009  SVHC substance name Lead - 7439-92-1  Weight 0.42 kg  Ambient conditions  installation altitude at height above sea level maximum 2 000 m  ambient temperature  • during operation -20 +60 °C  • during storage -50 +80 °C  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 20 690 V	<ul> <li>at AC in hot operating state per pole</li> </ul>	3.5 W	
shock resistance according to IEC 60068-2-27  25g / 11 ms  mechanical service life (operating cycles)  of the main contacts typical of auxiliary contacts typical lou 000 electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight Anbient conditions installation altitude at height above sea level maximum ambient temperature oluring operation during storage oluring transport elduring 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 o rated value 25g / 11 ms 100 000 10	insulation voltage with degree of pollution 3 at AC rated value	690 V	
mechanical service life (operating cycles)  • of the main contacts typical  • of auxiliary contacts typical  100 000  reference code according to IEC 81346-2  Q Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  Arabient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation  adjustable current response value current of the current-dependent overload release  operating voltage  • rated value  100 000  1	surge voltage resistance rated value	6 kV	
of the main contacts typical     of auxiliary contacts typical     electrical endurance (operating cycles) typical     lou 000  reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.42 kg Ambient conditions  installation altitude at height above sea level maximum ambient temperature     oduring operation     during storage     during 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     rated value     of the main curcuit and 100 000     100 000	shock resistance according to IEC 60068-2-27	25g / 11 ms	
of auxiliary contacts typical electrical endurance (operating cycles) typical freference code according to IEC 81346-2 Q Substance Prohibitance (Date)  SVHC substance name Lead - 7439-92-1 Weight 0.42 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature     oduring operation     during storage     oduring 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     100 000  0 00	mechanical service life (operating cycles)		
electrical endurance (operating cycles) typical  reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight O,42 kg 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  • rated value  100 000  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	of the main contacts typical	100 000	
reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  O.42 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  oduring 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  reference code according to IEC 81346-2  Q  10/01/2009  10/01/2	of auxiliary contacts typical	100 000	
Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  0.42 kg  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  10//01/2009  Lead - 7439-92-1  0.42 kg  Automorphism  2 000 m  2 000 m  -20 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %  4	electrical endurance (operating cycles) typical	100 000	
SVHC substance name    Lead - 7439-92-1     Weight   0.42 kg     Ambient conditions     installation altitude at height above sea level maximum   2 000 m     ambient temperature	reference code according to IEC 81346-2	Q	
Weight 0.42 kg  Ambient conditions  installation altitude at height above sea level maximum 2 000 m  ambient temperature  • during operation -20 +60 °C  • during storage -50 +80 °C  • during transport -50 +80 °C  relative humidity during operation 10 95 %  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 20 690 V	Substance Prohibitance (Date)	10/01/2009	
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport • 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  2 000 m  -20 +60 °C  -20 +80 °C  -50 +80 °C  10 95 %  11 20 A	SVHC substance name	Lead - 7439-92-1	
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  2 000 m  2 0 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %	Weight	0.42 kg	
ambient temperature  • during operation • during storage • during transport • during transport  -50 +80 °C  • during transport  -50 +80 °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  20 690 V	Ambient conditions		
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>50 +80 °C</li> <li>relative humidity during operation</li> <li>10 95 %</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>operating voltage         <ul> <li>rated value</li> <li>20 690 V</li> </ul> </li> </ul>	installation altitude at height above sea level maximum	2 000 m	
• during storage     • during transport     • during transport     • 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  operating voltage     • rated value  20 690 V	ambient temperature		
	<ul> <li>during operation</li> </ul>	-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  10 95 %  3  20 95 %	during storage	-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  20 690 V	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  20 690 V	relative humidity during operation	10 95 %	
adjustable current response value current of the current- dependent overload release  operating voltage  • rated value  13 20 A  20 690 V	Main circuit		
dependent overload release  operating voltage  • rated value  20 690 V	number of poles for main current circuit	3	
• rated value 20 690 V		13 20 A	
	operating voltage		
• at AC-3 rated value maximum 690 V	rated value	20 690 V	
	• at AC-3 rated value maximum	690 V	
• at AC-3e rated value maximum 690 V	• at AC-3e rated value maximum	690 V	

operating frequency rated value	50 60 Hz
operational current rated value	20 A
operational current	
at AC-3 at 400 V rated value	20 A
at AC-3e at 400 V rated value	20 A
operating power	2011
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	laterally
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	1.5 A
• at 230 V	1.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	
	(1 488 10
·	CLASS 10
design of the overload release	thermal
design of the overload release maximum short-circuit current breaking capacity (Icu)	thermal
design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value	thermal 100 kA
design of the overload release maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value • at AC at 400 V rated value	thermal  100 kA 55 kA
design of the overload release maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value	100 kA 55 kA 10 kA
design of the overload release maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value	thermal  100 kA 55 kA
design of the overload release maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC	thermal  100 kA 55 kA 10 kA 4 kA
design of the overload release maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  • at 240 V rated value	thermal  100 kA  55 kA  10 kA  4 kA
design of the overload release  maximum short-circuit current breaking capacity (Icu)  at AC at 240 V rated value  at AC at 400 V rated value  at AC at 500 V rated value  at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  at 240 V rated value  at 400 V rated value	thermal  100 kA 55 kA 10 kA 4 kA
design of the overload release maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  • at 240 V rated value  • at 400 V rated value  • at 500 V rated value	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA
design of the overload release  maximum short-circuit current breaking capacity (Icu)  at AC at 240 V rated value  at AC at 400 V rated value  at AC at 500 V rated value  at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  at 240 V rated value  at 400 V rated value	thermal  100 kA 55 kA 10 kA 4 kA
design of the overload release maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  • at 240 V rated value  • at 400 V rated value  • at 500 V rated value	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA
design of the overload release maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value  operating short-circuit current breaking capacity (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  response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 2 kA 260 A
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 20 A
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 20 A
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  • at 240 V rated value  • at 400 V rated value  • at 690 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  vielded mechanical performance [hp]	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 20 A
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 400 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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  vielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 2 kA 2 kA 2 60 A
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  • at 240 V rated value  • at 400 V rated value  • at 690 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  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 2 kA 2 kA 2 60 A
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  • at 240 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  vielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  • for 3-phase AC motor	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 2 kA 260 A  20 A 20 A 1.5 hp 3 hp
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  • for 3-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 2 kA 260 A  20 A 20 A 7.5 hp 3 hp
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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  vielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  • for 3-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 2 kA 260 A  20 A 20 A 20 A 7.5 hp 5 hp
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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  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 220/230 V rated value  — at 220/230 V rated value  — at 460/480 V rated value	thermal  100 kA  55 kA  10 kA  4 kA  100 kA  25 kA  5 kA  2 kA  260 A  20 A  20 A  1.5 hp  3 hp  7.5 hp  5 hp  10 hp
design of the overload release  maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value  • at AC at 500 V rated value  • at AC at 690 V rated value  • at AC at 690 V rated value  operating short-circuit current breaking capacity (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  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  — at 220/230 V rated value	thermal  100 kA 55 kA 10 kA 4 kA  100 kA 25 kA 5 kA 2 kA 260 A  20 A 20 A 20 A 7.5 hp 5 hp

product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	<u> </u>
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 6 A, quick: 10 A
design of the fuse link for IT network for short-circuit protection of the main circuit	
● at 400 V	gL/gG 63 A
● at 500 V	gL/gG 50 A
● at 690 V	gL/gG 50 A
nstallation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	65 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	3 11111
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for grounded parts at 690 V	311111
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
for live parts at 690 V	O IIIIII
Tor live parts at 690 v          — downwards	50 mm
	50 mm
— upwards	
backwards     at the side	0 mm
	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	array type towaringle
for main current circuit     for applications and control 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 2.5 mm²), 2x (2.5 10 mm²)
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
for AWG cables for main contacts	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
• for auxiliary contacts	
solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)

tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	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	M4
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
product function suitable for safety function	Yes
suitability for use	
<ul> <li>safety-related switching on</li> </ul>	No
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	10 a
Electrical Safety	
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	
display version for switching status	Handle
Approvals Certificates	
General Product Approval	

General Product Approval





Confirmation





<u>KC</u>

General Product Approval

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping







Miscellaneous

other

Confirmation



Railway

Environment







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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2121-4BA10}$ 

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2121-4BA10}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2121-4BA10

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

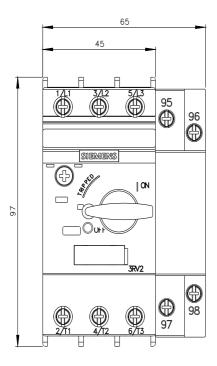
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2121-4BA10&lang=en

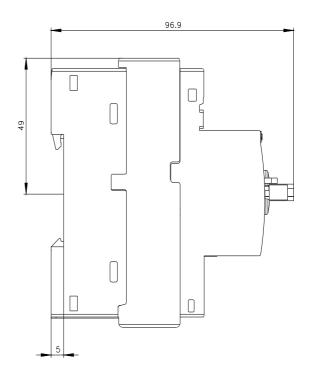
Characteristic: Tripping characteristics, I2t, Let-through current

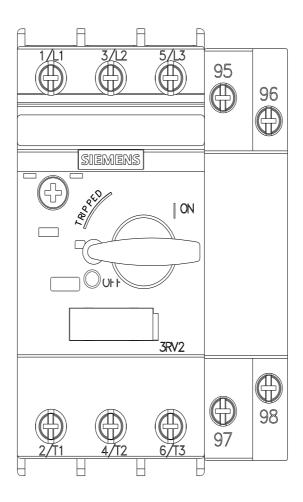
https://support.industry.siemens.com/cs/ww/en/ps/3RV2121-4BA10/char

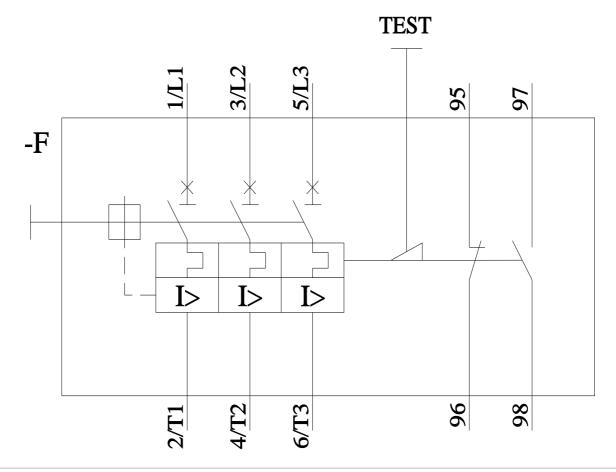
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2121-4BA10&objecttype=14&gridview=view1









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