## **SIEMENS**

Data sheet 3RV2031-4XA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 49...59 A N-release 845 A screw terminal Standard switching capacity

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	
<ul> <li>at AC in hot operating state</li> </ul>	26 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	8.7 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	20 000
<ul> <li>of auxiliary contacts typical</li> </ul>	20 000
electrical endurance (operating cycles) typical	20 000
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
reference code according to 120 01040-2	Q .
Substance Prohibitance (Date)	04/10/2015
Substance Prohibitance (Date)	
Substance Prohibitance (Date) Ambient conditions	04/10/2015
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum	04/10/2015
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	04/10/2015 2 000 m
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation	04/10/2015 2 000 m -20 +60 °C
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage	04/10/2015 2 000 m -20 +60 °C -50 +80 °C
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport	04/10/2015  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C
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	04/10/2015  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C
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	04/10/2015  2 000 m  -20 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %
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-	04/10/2015  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
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	04/10/2015  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
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	04/10/2015  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
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	04/10/2015  2 000 m  -20 +60 °C  -50 +80 °C  -50 +80 °C  10 95 %  3  49 59 A
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	04/10/2015  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %  3 49 59 A
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	04/10/2015  2 000 m  -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %  3 49 59 A  20 690 V 690 V

# ACS at 400 Y rated value		
operating power	<ul> <li>at AC-3 at 400 V rated value</li> </ul>	59 A
* al AC-3	<ul> <li>at AC-3e at 400 V rated value</li> </ul>	59 A
	operating power	
	• at AC-3	
	— at 230 V rated value	15 kW
= 1 AC 3-26	— at 400 V rated value	30 kW
= 1 AC 3-26		37 kW
		OU NOV
		15 1/1/
operating frequency		
operating frequency		
e at AC-3 maximum e at AC-3 maximum e at AC-3 emaximum protective and monitoring functions product function e ground fault detection yes class CLASS 10 design of the overload release maximum short-circuit current breaking capacity (tcu) e at AC-3 ta 240 v tarde value e at AC-3 te 90 v rated value e at AC-3 te 90 v rated value e at AC-3 te 90 v rated value e at AC-3 trade value e at 80 v rated		55 kW
e at AC-3e maximum  Protective and monitoring functions  product function  e ground fault detection  Posse failure detection  CLASS 10  design of the overload release  thermal  maximum short-circuit current breaking capacity (teu)  at AC at 240 V rated value  at AC at 500 V rated value  at AC at 500 V rated value  at AC at 500 V rated value  at 400 V rated value  at 500 V rated value  be at 500 V rated value  at 500 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  be at 600 V rated value  at 600 V rated value  at 600 V rated value  be at 600 V rated value  at 600 V rated value  be at 600 V rated value  at 600 V rated value  be at 600 V rated value  at 600 V rated value  be at 600 V rated value  be at 600 V rated value  at 600 V rated value  be for shipe-phase AC motor  at 200 V rated value  be for shipe-phase AC motor  at 200 V rated value  be for shipe-phase AC motor  at 200 V rated value  be for shipe-phase AC motor  at 200 V rated value  be for shipe-phase AC motor  at 200 V rated value  be for shipe-phase AC motor  at 200 V rated value  be for shipe-phase AC motor  at 200 V rated value  be for shipe-phase AC motor  at 200 V rated value  be for shipe-phase AC motor  at 200 V rated value  for shipe-phase AC motor  at 200 V rated value  be for shipe-phase AC motor  at 200 V rated value  for shipe-phase AC motor  at 200 V rated value  for shipe-phase AC motor  at 200 V rated value  for shipe-phase AC motor  at 200 V rated value  for shipe-phase AC motor  at 200 V rated value  for shipe-phase AC motor  at 200 V rated value  for shipe-phase AC motor  at 200 V rated value  for shipe-phase AC motor  at 200 V rated value  for shipe-phase AC motor  at 200 V ra		
Protective and monitoring functions  product function  • ground fault detection  • ground fault detection  • pround fault detection  • promote fault detection  • promote fault detection  • phase failure detection  Tyes  CLASS 10  thermal  maximum short-circuit current breaking capacity (teu)  • at AC at 400 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 400 V rated value  • at 400 V rated value  • at 400 V rated value  • at 500 V rated value  • at 600 V rated value  • at 600 V rated value  • at 800 V rated value  • at 100 V rated value  • at 700 V rated value  • at 800 V rated value  • at 700 V rated value  • at 800 V rated value		
product function	at AC-3e maximum	15 1/h
e ground fault detection Yes trip class CLASS 10  design of the overload release thermal  maximum short-circuit current breaking capacity (tcu)  e at AC at 240 V rated value 65 kA  e at AC at 400 V rated value 8 kA  e at AC at 500 V rated value 4 kA  or at 630 V rated value 30 kA  e at 400 V rated value 30 kA  e at 400 V rated value 30 kA  e at 500 V rated value 4 kA  operating short-circuit current breaking capacity (tcs) at AC  e at 240 V rated value 30 kA  e at 500 V rated value 4 kA  e at 500 V rated value 2 kA  eresponse value current of instantaneous short-circuit trip unit 20 kA  response value current of instantaneous short-circuit trip unit 20 kA  e at 600 V rated value 59 A  e at 600 V rated value 59 A  yielded mechanical performance (hp)  e for single-phase AC motor 4 at 480 V rated value 59 A  yielded mechanical performance (hp)  e for single-phase AC motor 4 at 20230 V rated value 50 hp  — at 2720230 V rated value 50 hp  — at 2780 V rated value 40 hp  — at 2780 V rated value 50 hp  Short-circuit protection 7 easing of the short-circuit protection 40 hp  — at 578600 V rated value 50 hp  Short-circuit protection 7 easing of the short-circuit protection 40 hp  e for 3-phase AC motor 50 hp  Short-circuit protection 7 easing of the short-circuit protection 9 yes  design of the shor	Protective and monitoring functions	
	product function	
trip class  design of the overload release maximum short-circuit current breaking capacity (icu)  at AC at 240 V rated value at AC at 240 V rated value at AC at 340 V rated value at 400 V rated value at 500 V rated value at 300 V rated value 500 V rated valu	ground fault detection	No
maximum short-circuit current breaking capacity (icu)  a 14 Cat 240 V rated value  at AC at 400 V rated value  at AC at 600 V rated value  be at AC at 600 V rated value  at 240 V rated value  at 240 V rated value  be at 400 V rated value  cat 240 V rated value  poperating short-circuit current breaking capacity (ics) at AC  at 240 V rated value  at 400 V rated value  at 600 V rated value  be at 600 V rated value  response value current of instantaneous short-circuit trip unit  be at 600 V rated value  at 600 V rated value  500 A  be at 600 V rated value  600 A  6	phase failure detection	Yes
maximum short-circuit current breaking capacity (icu)  at AC at 240 V rated value  at AC at 2400 V rated value  at AC at 800 V rated value  at AC at 800 V rated value  be at 240 V rated value  at 240 V rated value  at 240 V rated value  be at 240 V rated value  at 240 V rated value  at 600 V rated value  be at 600 V rated value  at 600 V rated value  cresponse value current of instantaneous short-circuit trip unit  buccs ratings  full-load current (FLA) for 3-phase AC motor  at 400 V rated value  59 A  at 600 V rated value  59 A  at 600 V rated value  59 A  at 600 V rated value  50 A  at 700 V rated value  50 A  at 600 V rated value  50 A  at 600 V rated value  40 Np  40 App  40 App  40 App  40 App  40 App  50 App  50 App  50 App  60 App  6	trip class	CLASS 10
maximum short-circuit current breaking capacity (Icu)         et AC at 240 V rated value         65 kA           e at AC at 400 V rated value         85 kA           e at AC at 500 V rated value         8 kA           e at AC at 690 V rated value         4 kA           operating short-circuit current breaking capacity (Ics) at AC         100 kA           e at 240 V rated value         30 kA           e at 500 V rated value         2 kA           e at 690 V rated value         2 kA           response value current of instantaneous short-circuit trip unit         2 kA           response value current of instantaneous short-circuit trip unit         2 kA           response value current (FLA) for 3-phase AC motor         4 kBA V rated value         59 A           e at 800 V rated value         59 A         4 kBA V rated value         59 A           e at 800 V rated value         5 hp         4 kBA value         6 hp           e for 3-phase AC motor         6 ro 4 phase AC motor         6 ro 3-phase AC motor         6 ro 4 phase AC motor         6 ro 3-phase AC motor	·	thermal
• at AC at 240 V rated value		
		65 kA
• at AC at 690 V rated value   100 kA		
operating short-circuit current breaking capacity (ics) at AC  at 240 V rated value at 400 V rated value 30 kA at 500 V rated value 4 kA at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit 845 A  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 59 A at 680 V rated value 59 A yielded mechanical performance [hp]  of or single-phase AC motor at 110/120 V rated value 59 A  for single-phase AC motor at 110/120 V rated value 50 hp  of 3-phase AC motor at 220/230 V rated value 40 hp at 230 V rated value 50 hp  Short-circuit protection  product function short circuit protection  4 st 240 V  160 at 400 V  160 at 400 V  160 at 500 V  125 at 690 V  100  Installation/ mounting/ dimensions  mounting position  fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  height width 55 mm  depth		
		4 NA
		100 kA
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 59 A at 600 V rated value 59 A  at 100 V rated value 59 A  yielded mechanical performance [hp]  of or single-phase AC motor  - at 110/120 V rated value 50 hp - at 2200 Y rated value 60 rated value 70 hp - at 2200 Y rated value 80 hp - at 460/480 V rated value 90 hp - at 460/480 V rated value 90 hp - at 4575/600 V rated value 90 hp - at 4575/600 V rated value 90 hp  product function short circuit protection  yes design of the fuse link for IT network for short-circuit protection of the main circuit 9 at 440 V 160 9 at 4400 V 160 125 1400 V 1500 V 15		
e 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 e at 480 V rated value s at 600 V rated value 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 220/230 V rated value for 3-phase AC motor — at 220/230 V rated value for 3-phase AC motor — at 460/480 V rated value for 3-phase AC motor — at 460/480 V rated value for 3-phase AC motor — at 575/600 V rated value for 3-phase AC motor — at 575/600 V rated value for 3-phase AC motor — at 460/480 V rated value for 3-phase AC motor — at 460/480 V rated value for 3-phase AC motor — at 450/480 V rated value for 3-phase AC motor  which is a special value for 3-phase AC motor  at 575/600 V rated value for 40 ph for 3-phase AC motor  which is a special value for 3-phase AC motor  which is a special value for 3-phase AC motor  which is a special value for 3-phase AC motor  which is a special value for 3-phase AC motor  which is a special value for 40 ph for 5-phase AC motor  which is a special value for 5-phase AC motor  which is a		
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 • 59 A  ylelded 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 220/230 V rated value • at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — bo hp  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 500 V • at 500 V • at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method height  width 55 mm  depth		
Full-load current (FLA) for 3-phase AC motor		
full-load current (FLA) for 3-phase AC motor         6 at 480 V rated value         59 A           e at 600 V rated value         59 A           yielded mechanical performance [hp]         59 A           e for single-phase AC motor         - at 110/120 V rated value         10 hp           - at 230 V rated value         10 hp           e for 3-phase AC motor         - at 220/230 V rated value         20 hp           - at 460/480 V rated value         40 hp           - at 575/600 V rated value         50 hp           Short-circuit protection           Yes           design of the short-circuit trip         magnetic           design of the fuse link for IT network for short-circuit protection of the main circuit         none required           eat 240 V         160           eat 4500 V         125           eat 690 V         100           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	· · · · · · · · · · · · · · · · · · ·	845 A
	UL/CSA ratings	
■ at 600 V rated value   59 A	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value 5 hp  — at 230 V rated value 10 hp  • for 3-phase AC motor  — at 220/230 V rated value 20 hp  — at 460/480 V rated value 40 hp  — at 575/600 V rated value 50 hp  Short-circuit protection  product function short circuit protection Yes design of the short-circuit trip magnetic  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V none required  • at 400 V 160  • at 500 V 125  • at 690 V 100  Installation/ mounting/ dimensions  mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  height 149 mm	<ul> <li>at 480 V rated value</li> </ul>	59 A
for single-phase AC motor         — at 110/120 V rated value	at 600 V rated value	59 A
- at 110/120 V rated value 5 hp   - at 230 V rated value 10 hp   • for 3-phase AC motor	yielded mechanical performance [hp]	
- at 230 V rated value 10 hp  • for 3-phase AC motor  - at 220/230 V rated value 20 hp  - at 460/480 V rated value 50 hp  Short-circuit protection  product function short circuit protection 4esign of the short-circuit trip 5esign of the fuse link for IT network for short-circuit protection of the main circuit 6esign of the fuse link for IT network for short-circuit protection of the main circuit 6esign of the short-circuit protection of the main circuit 7esign of the fuse link for IT network for short-circuit 1fo 160 160 160 160 160 160 160 160 160 160	<ul> <li>for single-phase AC motor</li> </ul>	
• for 3-phase AC motor     — at 220/230 V rated value	— at 110/120 V rated value	5 hp
• for 3-phase AC motor     — at 220/230 V rated value	— at 230 V rated value	10 hp
- at 220/230 V rated value 20 hp - at 460/480 V rated value 50 hp  Short-circuit protection  product function short circuit protection design of the short-circuit trip magnetic  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V none required • at 400 V 160 • at 500 V 125 • at 690 V 100  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	• for 3-phase AC motor	
- at 460/480 V rated value 50 hp  Short-circuit protection  product function short circuit protection Yes design of the short-circuit trip magnetic  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V none required  • at 400 V 160  • at 500 V 125  • at 690 V 100  Installation/ mounting/ dimensions  mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 55 mm depth 149 mm	·	20 hp
at 575/600 V rated value 50 hp  Short-circuit protection  product function short circuit protection Yes  design of the short-circuit trip magnetic  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V none required • at 400 V 160 • at 500 V 125 • at 690 V 100  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		
Short-circuit protection  product function short circuit protection  design of the short-circuit trip  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method  product function protection  Yes  magnetic  none required  160  125  100  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		
product function short circuit protection  design of the short-circuit trip  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  Yes  magnetic  Yes  magnetic  The was provided and provided		00 HP
design of the short-circuit trip  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position fastening method height  vidth beta for IT network for short-circuit protection of the main circuit  none required  160  125  125  • at 690 V  100  Installation/ mounting/ dimensions  mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  height 140 mm  vidth 55 mm  depth		Von
design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position fastening method  height  width  stream  400 M  100  100  100  100  100  100  100	<u> </u>	
protection of the main circuit  at 240 V  at 400 V  at 500 V  at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  none required  none required  160  125  100  125  100  100  Installation/ mounting/ dimensions  any  fastening method  55 mm  depth  149 mm		mayneuc
<ul> <li>at 240 V</li> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> <li>100</li> </ul> Installation/ mounting/ dimensions mounting position <ul> <li>any</li> <li>fastening method</li> <li>beight</li> <li>width</li> <li>width</li> <li>55 mm</li> <li>depth</li> </ul> 149 mm none required 160 125 100		
<ul> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> <li>100</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>width</li> <li>b55 mm</li> <li>depth</li> <li>149 mm</li> </ul>	•	none required
<ul> <li>at 500 V</li> <li>at 690 V</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>width</li> <li>55 mm</li> <li>depth</li> <li>149 mm</li> </ul>		
● at 690 V 100  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		
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		
mounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height140 mmwidth55 mmdepth149 mm		100
fastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height140 mmwidth55 mmdepth149 mm	-	
height         140 mm           width         55 mm           depth         149 mm		·
width         55 mm           depth         149 mm	fastening method	
depth 149 mm		140 mm
<u> </u>	width	55 mm
required spacing	depth	149 mm
	required spacing	

<ul> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> <li>downwards</li> </ul>	0 mm	
downwards		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
<ul> <li>for live parts at 400 V</li> </ul>		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
<ul> <li>for grounded parts at 500 V</li> </ul>		
— 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	
— 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	
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 35 mm²), 1x (1 50 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)	
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (18 2), 1x (18 1)	
tightening torque		
for main contacts with screw-type terminals	3 4.5 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	
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 hazard-
		ous locations







For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report

<u>KC</u>

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



Marine / Shipping









Confirmation

other

other

Railway



Confirmation

Vibration and Shock

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2031-4XA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4XA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4XA10

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

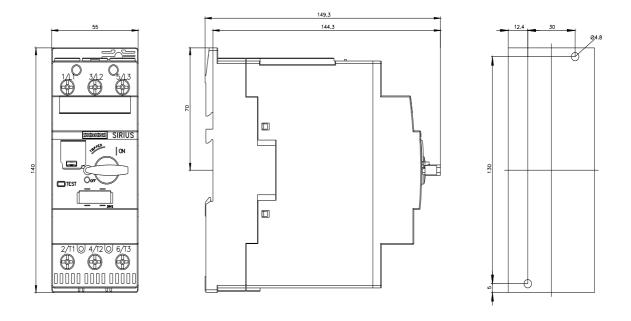
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2031-4XA10&lang=en

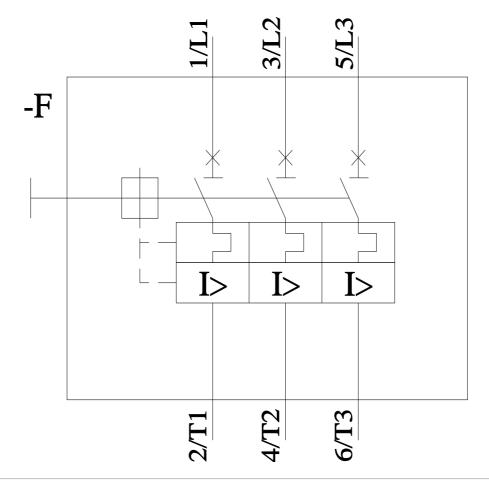
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4XA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4XA10&objecttype=14&gridview=view1





last modified: 11/21/2022 🖸



## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RV20314XA10