## **SIEMENS**

## **Data sheet**

3RT1466-6SF36-3PA0



Contactor, AC-1, 400 A/690 V/40  $^{\circ}$ C, S10, 3-pole, 96-127 V AC/DC, F-PLC-IN with varistor, 2 NO+2 NC, permanently mounted, Connection rail/ screw terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT14
General technical data	
size of contactor	S10
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	105.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	35.2 W
<ul> <li>without load current share typical</li> </ul>	3.4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %

maximum	
Main circuit	
	2
number of NO contacts for main contacts	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
type of voltage for main current circuit	AC
operational current	
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	400 A
<ul> <li>up to 690 V at ambient temperature 55 °C rated value</li> </ul>	380 A
— up to 690 V at ambient temperature 60 °C rated value	380 A
• at AC-3	400 A
— at 400 V rated value	138 A
— at 690 V rated value	138 A
minimum cross-section in main circuit at maximum AC-1 rated value	240 mm²
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency at AC-1 maximum	200 1/h
Control circuit/ Control	
type of voltage	AC/DC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	96 127 V
at 60 Hz rated value	96 127 V
control supply voltage at DC	
• rated value	96 127 V
type of PLC-control input according to IEC 60947-1	Type 1
consumed current at PLC-control input according to IEC 60947-1 maximum	30 mA
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC  ● at 50 Hz	530 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
apparent holding power of magnet coil at AC  • at 50 Hz	5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.5
closing power of magnet coil at DC	580 W
holding power of magnet coil at DC	3.4 W
closing delay	
• at AC	60 75 ms
• at DC	60 75 ms
opening delay	
• at AC	115 130 ms
• at DC	115 130 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)
control version of the switch operating mechanism	i ali-sale FLO lilput (i -FLO-IIV)

number of NC contacts for auxillary contacts   2	Auxiliary circuit	
e instantaneous contact		2
Number of NO contacts for auxiliary contacts		4
e instantaneous contact   2	• instantaneous contact	2
• Instantaneous contact   2   2   3   4   3	number of NO contacts for auxiliary contacts	2
operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 500 V rated value  at 600 V rated value  at 60 V rated value  at 125 V rated value  at 126 V rated value  at	attachable	4
operational current at AC-15  • at 230 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • at 60 V rated value • at 100 V rated value • at 100 V rated value • at 250 V rated value • at 250 V rated value • at 250 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 250 V rated value • at 260 V rated value	• instantaneous contact	2
at 230 V rated value at 400 V rated value 2 A at 500 V rated value 2 A at 500 V rated value 3 A  operational current at DC-13 at 24 V rated value 2 A at 48 V rated value 2 A at 48 V rated value 2 A at 48 V rated value 2 A at 110 V rated value 2 A at 110 V rated value 3 A 3 A  4 A 48 V rated value 2 A  5 A 4 A 5 V rated value 4 A 600 V rated value 5 A 5 V rated value 6 A 600 V rated value 7 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8	operational current at AC-12 maximum	10 A
• at 400 V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value  operational current at DC-13 • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 20 V rated value • at 60	operational current at AC-15	
• at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 126 V rated value • at 126 V rated value • at 120 V rated value • or 16 value value • or 16 value value • or 16 value value • or 17 value value • with type of coordination 1 required • with type of coordination 1 required • or short-circuit protection  required • or short-circuit protection of the main circuit required • or short-circuit protection of the auxiliary switch required • or short-circuit protection of the auxiliary switch required • side-by-side mounting / dimensions  mounting position  fastening method • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • or ownwards • downwards • downwards • at the side • for grounded parts • for wards • quowards • for live parts	<ul> <li>at 230 V rated value</li> </ul>	6 A
• at 690 V rated value  operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 100 V rated value • at 100 V rated value • at 220 V rated value • at 325 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 325 V rated value  contact reliability of auxiliary contacts  Short-circuit protection  product function short circuit protection • for short-circuit protection of the main circuit • at 15 v short-circuit protection of the main circuit • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rolatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing  Yes  height  210 mm  width  depth  220 mm  required spacing  • with side-by-side mounting  • ownwards  — downwards — downwards — 10 mm  - forwards — upwards — the side — downwards — upwards — at the side — downwards — of wards — at the side — downwards — of wards —	<ul> <li>at 400 V rated value</li> </ul>	3 A
0	<ul> <li>at 500 V rated value</li> </ul>	2 A
• at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 800 V rated value  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact reliability of auxiliary contacts  Short-circuit protection  product function short circuit protection  design of the fuse link • for short-circuit protection of the main circuit  — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for grounded space */-90° rotatable, with vertical mounting surface */-90° rotatable, with vertical mounting */	at 690 V rated value	1 A
• at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 122 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 200 V rated value • at 60 0 V rated value • at 60 0 V rated value • at 600 V rated value  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts  Short-circuit protection  product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit  - with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • sold-by-side mounting dimensions  mounting position  fastening method • side-by-side mounting • side-by-side mounting  - side-by-side mounting  - with side-by-side mounting  - forwards - upwards - downwards - at the side • for grounded parts - forwards - at the side - downwards - upwards - for live parts - forwards - upwards - for live parts - fo	operational current at DC-13	
at 160 V rated value at 110 V rated value at 110 V rated value at 225 V rated value at 220 V rated value at 220 V rated value at 600 V rated value  at 600 V rated value  at 600 V rated value  och 6	at 24 V rated value	10 A
at 110 V rated value at 125 V rated value at 220 V rated value 20.9 A 30.1 A 3	at 48 V rated value	2 A
at 125 V rated value at 220 V rated value at 220 V rated value 0.3 A  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts  Short-circuit protection  product function short circuit protection  design of the fuse link  for short-circuit protection of the main circuit  - with type of coordination 1 required - with type of assignment 2 required for short-circuit protection of the auxiliary switch required with type of assignment 2 required for short-circuit protection of the auxiliary switch required with type of assignment 2 required for short-circuit protection of the auxiliary switch required with required  Installation/ mounting/ dimensions  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing yes height 210 mm width 145 mm depth 202 mm  required spacing with side-by-side mounting - forwards - upwards - downwards - downwards - at the side - at the side - downwards - forwards - upwards - forwards - upwards - forwards - forwards - upwards - forwards - forw	<ul> <li>at 60 V rated value</li> </ul>	2 A
at 220 V rated value  at 600 V rated value  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact reliability of auxiliary contacts  Short-circuit protection  product function short circuit protection  design of the fuse link  for short-circuit protection of the main circuit  - with type of coordination 1 required  - with type of condination 1 required  - with type of assignment 2 required  for short-circuit protection of the auxiliary switch required  - with type of assignment 2 required  sort of short-circuit protection of the auxiliary switch required  sort of short-circuit protection of the auxiliary switch required  sort of short-circuit protection of the auxiliary switch required  sort of short-circuit protection of the auxiliary switch required  sort of short-circuit protection of the auxiliary switch required  sort of short-circuit protection of the auxiliary switch required  sort of short-circuit protection of the auxiliary switch required  sort of short-circuit protection of the auxiliary switch required  sort of son V, 100 kA)  gG: 10 A (500 V, 100 kA	• at 110 V rated value	1 A
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact reliability of auxiliary contacts  Short-circuit protection  product function short circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required gr.: 500 A (690 V, 100 kA)  gr.: 500 A (690 V, 100 kA)	• at 125 V rated value	0.9 A
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts  Short-circuit protection  product function short circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required of short-circuit protection of the main circuit  — with type of coordination 1 required of short-circuit protection of the auxiliary switch ground of sasignment 2 required of short-circuit protection of the auxiliary switch ground of surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing  • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  — forwards — upwards — downwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — odwnwards — of owards — odwnwards — of owards — odwnwards — of owards —	• at 220 V rated value	0.3 A
protection of the auxiliary switch required contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  Short-circuit protection  product function short circuit protection design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required 9G: 500 A (690 V, 100 kA) 9G: 10 A (500 V, 1 kA)  required  Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting  height width 145 mm  depth  required spacing  • with side-by-side mounting  - forwards — upwards — at the side — downwards — of rowards — at the side — downwards — of rowards — at the side — downwards — of or grounded parts — forwards — at the side — downwards — of or grounded parts — forwards — at the side — downwards — of or grounded parts — forwards — at the side — downwards — of or grounded parts — forwards — of or grounded parts — forwards — of owards — of owar	at 600 V rated value	0.1 A
contact reliability of auxiliary contacts  Short-circuit protection  product function short circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required of the success of the second of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  ### with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  screw fixing  Yes  height 210 mm  width depth 202 mm  required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side — of orgrounded parts — forwards — upwards — at the side — downwards — of orgrounded parts — forwards — at the side — downwards — of owards — of orgrounded parts — forwards — of owards — of owards — of owards — of orgrounded		gG: 10 A (230 V, 400 A)
Short-circuit protection   Product function short circuit protection   design of the fuse link		46.11.11.11.11.11.11.11.11.11.11.11.11.11
product function short circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-9		1 faulty switching per 100 million (17 V, 1 mA)
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required 9G: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA) required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  • side-by-side mounting  • side-by-side mounting  width  depth  210 mm  depth  required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — at the side — downwards — downwa		
• for short-circuit protection of the main circuit  - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position    with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back   screw fixing		No
- with type of coordination 1 required - with type of assignment 2 required of or short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  yes  height 210 mm  width 145 mm  depth 202 mm  required spacing  with side-by-side mounting - forwards - upwards - at the side of or grounded parts - forwards - upwards - at the side - downwards - upwards - at the side - downwards - upwards - at the side - downwards - upwards - for live parts - forwards - forwards - forwards - for live parts - forwards - upwards - upwards - upwards - upwards - forwards - upwards - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - upwards - forwards - upwards - forwards - forwards - forwards - forwards - upwards - forwards - forwards - forwards - forwards - upwards - forwards - forwards - forwards - upwards - forwards - forwards - upwards - forwards - forwards - upwards - forwards - upwards - forwards - for	_	
- with type of assignment 2 required		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertica		
required  mounting position  mounting position  fastening method		
Installation/ mounting/ dimensions     with vertical mounting surface +/-90° rotatable, with vertical mounting +/-90° or vertical mounting +/-9		gG: 10 A (500 V, 1 kA)
mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  screw fixing  ◆ side-by-side mounting  Pes  height  210 mm  width  depth  required spacing  ◆ with side-by-side mounting  — forwards — upwards — at the side — upwards — upwards — upwards — upwards — upwards — to mm  • for grounded parts — forwards — upwards — at the side — upwards — in mm — at the side — upwards — at the side — upwards — in mm  • for live parts — forwards — forwards — upwards — upwards — upwards — to mm  • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — to mm  • for live parts — forwards — upwards — up	·	
surface +/- 22.5° tiltable to the front and back screw fixing  side-by-side mounting  height 210 mm  width 415 mm  depth 202 mm  required spacing  with side-by-side mounting  forwards  upwards  at the side  for grounded parts  forwards  upwards  at the side  of or grounded parts  at the side  of or grounded parts  at the side  of or grounded parts  forwards  at the side  of or mm  of or live parts  forwards  of or live parts  of or wards  upwards  of or live parts  of or wards  upwards  of or live parts  of orwards  upwards  of or mm		with vertical mounting surface ±/-90° rotatable, with vertical mounting
• side-by-side mounting       Yes         height       210 mm         width       145 mm         depth       202 mm         required spacing       • with side-by-side mounting         - forwards       20 mm         - upwards       10 mm         - downwards       10 mm         • for grounded parts       20 mm         - upwards       10 mm         - at the side       10 mm         - downwards       10 mm         • for live parts       20 mm         - forwards       20 mm         - upwards       10 mm         - upwards       10 mm		surface +/- 22.5° tiltable to the front and back
• side-by-side mounting       Yes         height       210 mm         width       145 mm         depth       202 mm         required spacing       • with side-by-side mounting         - forwards       20 mm         - upwards       10 mm         - downwards       10 mm         • for grounded parts       20 mm         - upwards       10 mm         - at the side       10 mm         - downwards       10 mm         • for live parts       20 mm         - forwards       20 mm         - upwards       10 mm         - upwards       10 mm	fastening method	screw fixing
height         210 mm           width         145 mm           depth         202 mm           required spacing	• side-by-side mounting	
depth 202 mm   required spacing	height	210 mm
required spacing	width	145 mm
<ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>mm</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> <li>for live parts</li> <li>upwards</li> <li>10 mm</li> </ul>	depth	202 mm
— forwards       20 mm         — upwards       10 mm         — downwards       10 mm         — at the side       0 mm         • for grounded parts       20 mm         — forwards       20 mm         — upwards       10 mm         • for live parts       10 mm         — forwards       20 mm         — upwards       10 mm	required spacing	
<ul> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>● for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— at the side</li> <li>— downwards</li> <li>● for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>10 mm</li> <li>20 mm</li> <li>— orwards</li> <li>— upwards</li> <li>20 mm</li> <li>— upwards</li> </ul>	<ul> <li>with side-by-side mounting</li> </ul>	
<ul> <li>— downwards</li> <li>— at the side</li> <li>● for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— at the side</li> <li>— downwards</li> <li>● for live parts</li> <li>— forwards</li> <li>— forwards</li> <li>— upwards</li> <li>10 mm</li> <li>20 mm</li> <li>— upwards</li> <li>20 mm</li> <li>— upwards</li> <li>10 mm</li> </ul>	— forwards	20 mm
<ul> <li>— at the side</li> <li>● for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>— for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>20 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>	— upwards	10 mm
<ul> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> <li>10 mm</li> <li>for live parts</li> <li>upwards</li> <li>20 mm</li> <li>upwards</li> <li>10 mm</li> </ul>	— downwards	10 mm
<ul> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>20 mm</li> <li>— upwards</li> <li>— upwards</li> </ul>	— at the side	0 mm
<ul> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>10 mm</li> <li>20 mm</li> <li>— upwards</li> <li>10 mm</li> </ul>	<ul><li>for grounded parts</li></ul>	
<ul> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>10 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>	— forwards	20 mm
<ul> <li>— downwards</li> <li>for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>10 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>	— upwards	10 mm
<ul> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>20 mm</li> <li>10 mm</li> </ul>	— at the side	10 mm
— forwards 20 mm — upwards 10 mm	— downwards	10 mm
— upwards 10 mm	<ul><li>for live parts</li></ul>	
	— forwards	20 mm
downwards 40 mm	— upwards	10 mm
— downwards	— downwards	10 mm
— at the side 10 mm	— at the side	10 mm
Connections/ Terminals	Connections/ Terminals	
type of electrical connection	type of electrical connection	
• for main current circuit Connection bar	for main current circuit	Connection bar
• for auxiliary and control circuit screw-type terminals	<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals

<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
type of connectable conductor cross-sections	
at AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main contacts	
<ul> <li>solid or stranded</li> </ul>	70 240 mm²
stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
<ul><li>— solid or stranded</li></ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
Safety related data	
Safety related data product function	
	Yes
product function	Yes No
<ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-</li> </ul>	
product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1	No
product function	No Type B
product function  ■ mirror contact according to IEC 60947-4-1  ■ positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920	No Type B 1 000 000
product function  ■ mirror contact according to IEC 60947-4-1  ■ positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508	No Type B 1 000 000 2
product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061	No Type B 1 000 000 2 2
product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1	No Type B 1 000 000 2 2 c
product function	No Type B 1 000 000 2 2 C 2
product function	No Type B 1 000 000 2 2 C 2
product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  proportion of dangerous failures	No Type B 1 000 000 2 2 c 2 0
product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  proportion of dangerous failures  • with low demand rate according to SN 31920	No Type B 1 000 000 2 2 c 0 40 %
product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920	No  Type B  1 000 000 2 2 2 0 40 % 73 %
product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  proportion of dangerous failures         • with low demand rate according to SN 31920  • with high demand rate according to EN 62061	No  Type B  1 000 000 2 2 2 0 40 % 73 % 0.00000045 1/h
product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to EN 62061  PFDavg with low demand rate according to IEC 61508	No  Type B  1 000 000  2  2  C  2  0  40 %  73 %  0.00000045 1/h  0.007
product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  proportion of dangerous failures         • with low demand rate according to SN 31920  • with high demand rate according to EN 62061  PFDavg with low demand rate according to IEC 61508  MTBF	No  Type B  1 000 000 2 2 c 2 0  40 % 73 % 0.00000045 1/h 0.007 75 y
product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  proportion of dangerous failures         • with low demand rate according to SN 31920  PFHD with high demand rate according to EN 62061  PFDavg with low demand rate according to EN 62061  PFDavg with low demand rate according to IEC 61508  MTBF  hardware fault tolerance according to IEC 61508  protection class IP on the front according to IEC	No  Type B  1 000 000 2 2 c 2 0 40 % 73 % 0.00000045 1/h 0.007 75 y 0

Certificates/ approvals

**General Product Approval** 

EMC





Confirmation







Functional
Safety/Safety of Conformity

Declaration of Conformity

Test Certificates

other

Type Examination Certificate



Special Test Certificate

Type Test Certificates/Test Report

Confirmation

**Miscellaneous** 

## Railway

Special Test Certificate

## **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=3RT1466-6SF36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6SF36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6SF36-3PA0

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

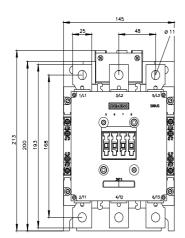
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1466-6SF36-3PA0&lang=en

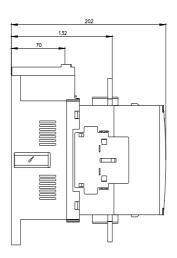
Characteristic: Tripping characteristics, I2t, Let-through current

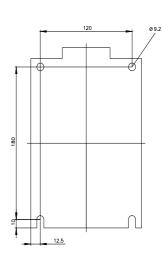
https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6SF36-3PA0/char

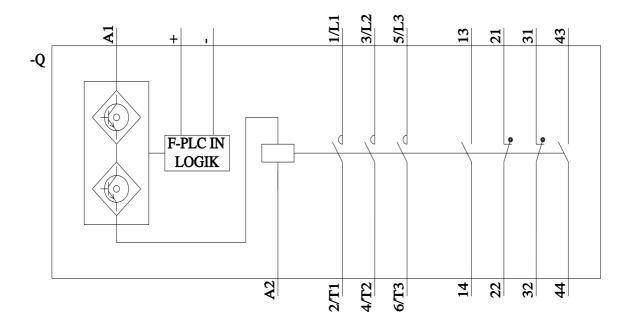
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1466-6SF36-3PA0&objecttype=14&gridview=view1









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