## **SIEMENS**

Data sheet 3RT1456-6SP36



Contactor, AC-1, 275 A/690 V/40  $^{\circ}$ C, S6, 3-pole, 200-277 V AC/DC, F-PLC-IN with varistor, 2 NO+2 NC, Connection rail/ screw terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT14
General technical data	
size of contactor	S6
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
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>	690 V
surge voltage resistance	
of main circuit rated value	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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.03.2017
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 acc. to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	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	
— up to 690 V at ambient temperature 40 °C	275 A
rated value	21071
— up to 690 V at ambient temperature 55 °C	250 A
rated value	
<ul><li>up to 690 V at ambient temperature 60 °C</li></ul>	250 A
rated value	
• at AC-3	
— at 400 V rated value	97 A
— at 690 V rated value	97 A
minimum cross-section in main circuit at maximum AC-1 rated value	140 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
1 3 1 3	200 1/11
Control circuit/ Control	ACIDO
type of voltage	AC/DC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	200 277 \/
at 50 Hz rated value	200 277 V
• at 60 Hz rated value	200 277 V
control supply voltage at DC	000 077.1/
• rated value	200 277 V
type of PLC-control input acc. to IEC 60947-1	Type 1
consumed current at PLC-control input acc. 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	1,1
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	280 V·A
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	4.4 V·A
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.5
closing power of magnet coil at DC	320 W
holding power of magnet coil at DC	2.8 W
closing delay	00 75
• at AC	60 75 ms
• at DC	60 75 ms
opening delay	445 400
• 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)
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
attachable	4
instantaneous contact	2

a tatachable  a instantaneous contact operational current at AC-12 maximum  operational current at AC-12 maximum  operational current at AC-15  a 12 30 V rated value at 500 V rated value at 500 V rated value 2 A at 690 V rated value 3 A at 24 V rated value 3 A at 24 V rated value 2 A at 10 V rated value 3 A at 10 V rated value 3 A at 22 V rated value 3 A at 24 V rated value 3 A at 25 V rated value 4 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5	
• instantaneous contact 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 690 V rated value • at 690 V rated value • at 890 V rated value • at 890 V rated value • at 890 V rated value • at 800 V rated value • at 800 V rated value • at 80 V rated value • at 80 V rated value • at 80 V rated value • at 10 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 300 V rated value • at 300 V rated value • at 600 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • at	
operational current at AC-15  operational current at AC-15  operational current at AC-15  operational current at AU value  operational current at AU value  operational current at DC-13  operational current at AC-15  operational current at AC-12	
operational current at AC-15	
at 230 V rated value at 400 V rated value 2 A at 500 V rated value 1 A  operational current at DC-13  at 48 V rated value 1 A  operational current at DC-13  at 48 V rated value 2 A  at 600 V rated value 2 A  at 60 V rated value 2 A  at 120 V rated value 2 A  at 120 V rated value 3 A  at 122 V rated value 3 A  at 125 V rated value 4 A  at 125 V rated value 5 A  at 125 V rated value 6 A  3 A  4 A  5 A  5 A  5 A  5 A  5 A  5 A  5	
at 400 V rated value at 500 V rated value 2 A at 690 V rated value 1 A  operational current at DC-13  at 24 V rated value 1 10 A at 48 V rated value 2 A at 690 V rated value 3 A  at 24 V rated value 2 A at 690 V rated value 3 A  at 25 V rated value 3 A  at 690 V rated value 3 A  at 690 V rated value 4 A  at 690 V rated value 5 A  at 690 V rated value 6 A  at 125 V rated value 9 A  at 220 V rated value 0 A  at 220 V rated value 0 A  at 220 V rated value 0 A  at 690 V rated value 0 A  besign 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 main circuit  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing  yes  height for the fixed value for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for	
at 500 V rated value at 3690 V rated value  operational current at DC-13 at 24 V rated value at 48 V rated value at 48 V rated value at 10 A at 24 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 20 V rated value at 20 V rated value at 20 V rated value besign 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 for short-circuit protection of the auxiliary switch required soft short-circuit protection of the auxiliary switch required soft short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required soft short-circuit protection of the short-circuit protection of the auxiliary switch required soft short-circuit protection of the short-circuit protection of the short-circuit protection of the short-circuit protection of the short-circuit protectio	
operational current at DC-13     o at 24 V rated value     ot 48 V rated value     ot 48 V rated value     ot 410 V rated value     ot 510 V rated value     ot 410 V rated value     ot 610 V rated value     ot 410 V	
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value	
at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 126 V rated value at 127 V rated value at 128 V rated value at 290 V ra	
at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 22 N at 220 V rated value at 220 V rated value at 220 V rated value at 600 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 coordination 1 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required  soft short-circuit protection of the auxiliary switch required  for short-circuit protection of the auxiliary switch required  soft short-circuit protection of the main circuit  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  sorew fixing  sorew fixing  sorew fixing  sorew fixing  sorew fixing  with side-by-side mounting  with side-by-side mounting  with side-by-side mounting  with side-by-side mounting  sorew fixing  sorew fixing  20 mm	
at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value  contact reliability of 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 coordination 1 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required  soft at 600 V, 100 kA)  gG: 355 A (690 V, 100 kA) gG: 350 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  screw fixing  yes  height  into 170 mm  required spacing  with side-by-side mounting  mounting on mounting  with side-by-side mounting  mounting  mounting on mounting  mountin	
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>contact reliability of auxiliary switch required</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul> Short-circuit protection product function short circuit protection <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>gG: 355 A (690 V, 100 kA)</li> <li>gF: 350 A (690 V, 100 kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> </ul> required <ul> <li>installation/ mounting/ dimensions</li> </ul> mounting position <ul> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back <ul> <li>screw fixing</li> <li>side-by-side mounting</li> <li>to mm</li> </ul> </li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting</li> <li>with side-by-side mounting</li> <li>outh side-by-side mounting</li> <li>outh side-by-side mounting</li> <li>outh side-by-side mounting</li> <li>outh side-by-side mounting</li> </ul>	
at 125 V rated value 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  I faulty switching per 100 million (17 V, 1 mA)  Short-circuit protection  product function short circuit protection  design of the fuse link	
<ul> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>Short-circuit protection</li> <li>product function short circuit protection</li> <li>design of the fuse link</li> <li>of or short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>of or short-circuit protection of the auxiliary switch required</li> <li>installation/ mounting/ dimensions</li> <li>mounting position</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mountsurface +/- 22.5° tiltable to the front and back</li> <li>screw fixing</li> <li>yes</li> <li>height</li> <li>installation/ mounting/ dimensions</li> <li>mounting dimensions</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mountsurface +/- 22.5° tiltable to the front and back</li> <li>screw fixing</li> <li>yes</li> <li>height</li> <li>intro mm</li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting</li> <li>owith side-by-side mounting</li> </ul>	
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  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  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  width  120 mm  depth  required spacing  • with side-by-side mounting  — forwards  20 mm	
design of the miniature circuit breaker for short-circuit 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  • 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  Yes  height  into A (230 V, 400 A)  gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  design of the auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  No  design of the auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  No  design of the fuse link  1 faulty switching per 100 million (17 V, 1 mA)  No  design of the fuse link  1 faulty switching per 100 million (17 V, 1 mA)  No  design of the fuse link  1 faulty switching per 100 million (17 V, 1 mA)  No  design of the fuse link  1 faulty switching per 100 million (17 V, 1 mA)  Short-circuit protection  No  design of the fuse link  9 (355 A (690 V, 100 kA)  9 (87: 350 A (690 V, 100 kA)  9 (87	
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 required required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  fastening method  • side-by-side mounting  width  depth  required spacing  • with side-by-side mounting  — forwards  1 faulty switching per 100 million (17 V, 1 mA)  Short-circuit protection  No  96: 355 A (690 V, 100 kA)  97: 350 A (690 V, 100 kA)  97: 35	
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  • 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 +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  fastening method  • side-by-side mounting  • side-by-side mounting  width  120 mm  depth  required spacing  • with side-by-side mounting  — forwards  20 mm	
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  installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back  fastening method • side-by-side mounting • side-by-side mounting  width  to mm  tequired spacing • with side-by-side mounting — forwards  No  No  No  No  RG: 355 A (690 V, 100 kA)  gR: 350 A (690 V, 100 kA)  gR: 350 A (690 V, 100 kA)  gR: 350 A (690 V, 10 kA)  gR: 350 A (690 V, 100 kA)  gR: 355 A (690 V, 100 kA)  gR:	
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: 355 A (690 V, 100 kA) 9G: 350 A (690 V, 100 kA)  • 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  fastening method • side-by-side mounting  • side-by-side mounting  width 172 mm  width 120 mm  depth 170 mm  required spacing • with side-by-side mounting — forwards 20 mm	
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 9 gR: 350 A (690 V, 100 kA) 9 for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mountsurface +/- 22.5° tiltable to the front and back  fastening method 9 side-by-side mounting 172 mm  width 120 mm  depth 170 mm  required spacing • with side-by-side mounting — forwards 20 mm	
design of the fuse link          • for short-circuit protection of the main circuit	
<ul> <li>for short-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> <li>mounting position</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back</li> <li>fastening method         <ul> <li>side-by-side mounting</li> <li>yes</li> </ul> </li> <li>height         <ul> <li>172 mm</li> <li>width</li> <li>120 mm</li> </ul> </li> <li>depth         <ul> <li>with side-by-side mounting</li> <li>with side-by-side mounting</li> <li>with side-by-side mounting</li> <li>owith side-by-side mounting</li> <li>provards</li> </ul> </li> </ul>	
<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>Installation/ mounting/ dimensions</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back</li> <li>fastening method         <ul> <li>side-by-side mounting</li> <li>yes</li> <li>height</li> <li>midth</li> <li>120 mm</li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting</li> <li>forwards</li> <li>20 mm</li> <li>20 mm</li> <li>and the side-by-side mounting</li> <li>midth side-by-side mounting</li></ul></li></ul>	
— 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  fastening method oside-by-side mounting  height  width 172 mm  width 120 mm  depth  required spacing owith side-by-side mounting  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  screw fixing  Yes  height 172 mm  width 120 mm  depth 20 mm	
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  fastening method     side-by-side mounting     Yes  height     172 mm  width     120 mm  depth     170 mm  required spacing     with side-by-side mounting     — forwards  20 mm	
Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  fastening method  • side-by-side mounting  height  172 mm  width  120 mm  depth  required spacing  • with side-by-side mounting  — forwards  20 mm	
mounting position     with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back       fastening method <ul> <li>side-by-side mounting</li> <li>res</li> </ul> Yes               height             172 mm               width             120 mm               depth             170 mm               required spacing             with side-by-side mounting               - forwards             20 mm	
surface +/- 22.5° tiltable to the front and back  fastening method	
fastening method       screw fixing         ◆ side-by-side mounting       Yes         height       172 mm         width       120 mm         depth       170 mm         required spacing       • with side-by-side mounting         — forwards       20 mm	ing
<ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting</li> <li>forwards</li> <li>yes</li> <li>172 mm</li> <li>120 mm</li> <li>170 mm</li> <li>required spacing</li> <li>20 mm</li> </ul>	
height 172 mm width 120 mm depth 170 mm required spacing  • with side-by-side mounting — forwards 20 mm	
width 120 mm  depth 170 mm  required spacing  • with side-by-side mounting — forwards 20 mm	
depth     170 mm       required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>20 mm</li> </ul>	
required spacing	
<ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>20 mm</li> </ul>	
— forwards 20 mm	
— upwards 10 mm	
<ul><li>— upwards</li><li>— downwards</li><li>10 mm</li><li>10 mm</li></ul>	
— at the side 0 mm	
• for grounded parts	
— forwards 20 mm	
— upwards 10 mm	
— at the side 10 mm	
— downwards 10 mm	
• for live parts	
— forwards 20 mm	
— upwards 10 mm	
— downwards 10 mm	
— at the side 10 mm	
Connections/ Terminals	
type of electrical connection	
• for main current circuit Connection bar	
• for auxiliary and control circuit screw-type terminals	
• at contactor for auxiliary contacts  Screw-type terminals	
• of magnet coil Screw-type terminals	
width of connection bar 17 mm	
thickness of connection bar 3 mm	

diameter of holes	9 mm		
number of holes	1		
type of connectable conductor cross-sections			
at AWG cables for main contacts	4 250 kcmil		
connectable conductor cross-section for main contacts			
<ul> <li>solid or stranded</li> </ul>	25 120 mm²		
stranded	25 120 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 mm²		
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 device type acc. to IEC 61508-2	Туре В		
B10 value with high demand rate acc. to SN 31920	1 000 000		
Safety Integrity Level (SIL) acc. to IEC 61508	2		
Salety integrity Level (SIL) acc. to ILO 01300			
SIL Claim Limit (subsystem) acc. to EN 62061	2		
	2 c		
SIL Claim Limit (subsystem) acc. to EN 62061			
SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1	c		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1	c 2		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1  stop category acc. to DIN EN 60204-1	c 2		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1  stop category acc. to DIN EN 60204-1  proportion of dangerous failures	c 2 0		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1  stop category acc. to DIN EN 60204-1  proportion of dangerous failures  • with low demand rate acc. to SN 31920	c 2 0		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1  stop category acc. to DIN EN 60204-1  proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920	c 2 0 40 % 73 %		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1  stop category acc. to DIN EN 60204-1  proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to EN 62061	C 2 0 40 % 73 % 0.00000045 1/h		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1  stop category acc. to DIN EN 60204-1  proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to EN 62061  PFDavg with low demand rate acc. to IEC 61508	c 2 0 40 % 73 % 0.00000045 1/h 0.007		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1  stop category acc. to DIN EN 60204-1  proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  PFHD with high demand rate acc. to EN 62061  PFDavg with low demand rate acc. to IEC 61508  MTBF	c 2 0 40 % 73 % 0.00000045 1/h 0.007 75 y		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1  stop category acc. to DIN EN 60204-1  proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to EN 62061  PFDavg with low demand rate acc. to IEC 61508  MTBF  hardware fault tolerance acc. to IEC 61508  T1 value for proof test interval or service life acc. to IEC 61508  protection class IP on the front acc. to IEC 60529	C 2 0 40 % 73 % 0.00000045 1/h 0.007 75 y 0		
SIL Claim Limit (subsystem) acc. to EN 62061  performance level (PL) acc. to EN ISO 13849-1  category acc. to EN ISO 13849-1  stop category acc. to DIN EN 60204-1  proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to EN 62061  PFDavg with low demand rate acc. to IEC 61508  MTBF  hardware fault tolerance acc. to IEC 61508  T1 value for proof test interval or service life acc. to IEC 61508	C 2 0 40 % 73 % 0.00000045 1/h 0.007 75 y 0 20 y		

## **General Product Approval**



Confirmation





<u>KC</u>



EMC Safety/Safety of Machinery Declaration of Conformity	Test Certificates	other
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Type Examination **Certificate** 



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

Type Test Certificates/Test Report

Confirmation

other Railway

**Miscellaneous Special Test Certific-**

<u>ate</u>

## **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=3RT1456-6SP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1456-6SP36

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

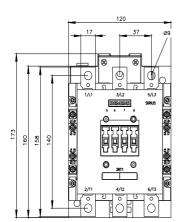
https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6SP36

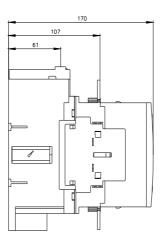
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1456-6SP36&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1456-6SP36&lang=en</a>

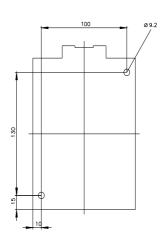
Characteristic: Tripping characteristics, I2t, Let-through current

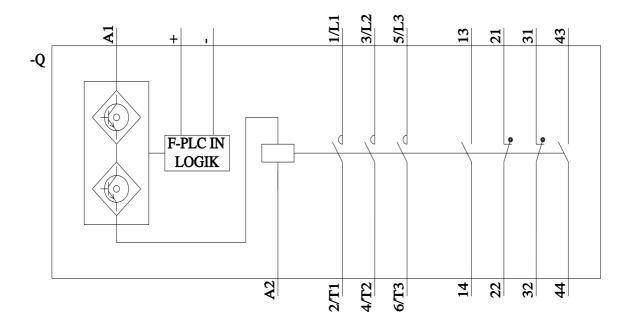
https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6SP36/char

Further characteristics (e.g. electrical endurance, switching frequency) <a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1456-6SP36&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1456-6SP36&objecttype=14&gridview=view1</a>









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