## 3RT1456-6AP38-0PA5

**Data sheet** 



power contactor AC-1 275 A / 690 V / 40  $^{\circ}$ C 3-pole, Uc: 220-240 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: 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
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	86.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	28.8 W
<ul> <li>without load current share typical</li> </ul>	5.2 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
<ul> <li>of auxiliary circuit rated value</li> </ul>	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 (operating 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)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according 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	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	275 A
— up to 690 V at ambient temperature 55 °C rated value	250 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	250 A
• 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	2 000 1/h
• at DC	2 000 1/h
operating frequency at AC-1 maximum	600 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	220 240 V
at 60 Hz rated value	220 240 V
control supply voltage at DC	
• rated value	220 240 V
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	Will Validio
at minimum rated control supply voltage at AC	
— at 50 Hz	250 VA
— at 60 Hz	250 VA
at maximum rated control supply voltage at AC	200
— at 60 Hz	300 VA
— at 50 Hz	300 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	300 VA
inductive power factor with closing power of the coil	
at 50 Hz	0.9
apparent holding power	0.0
at minimum rated control supply voltage at DC	4.3 VA
***	5.2 VA
at maximum rated control supply voltage at DC  apparent holding power	0.2 471
at minimum rated control supply voltage at AC	
— at 50 Hz	4.8 VA
— at 60 Hz	4.8 VA
	4.0 VA
at maximum rated control supply voltage at AC	E 9 \/A
— at 50 Hz	5.8 VA
— at 60 Hz	5.8 VA
apparent holding power of magnet coil at AC	F 0 VA
• at 50 Hz	5.8 VA
restrictive marriage factors with the healding marriage of the earli	
inductive power factor with the holding power of the coil  • at 50 Hz	0.8

closing power of magnet coil at DC	360 W			
holding power of magnet coil at DC	5.2 W			
closing delay				
• at AC	20 95 ms			
• at DC	20 95 ms			
opening delay				
• at AC	40 60 ms			
• at DC	40 60 ms			
arcing time	10 15 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts	2			
attachable	4			
• instantaneous contact	2			
number of NO contacts for auxiliary contacts	2			
attachable	4			
• instantaneous contact	2			
operational current at AC-12 maximum	10 A			
operational current at AC-15				
at 230 V rated value	6 A			
at 400 V rated value	3 A			
at 500 V rated value	2 A			
at 690 V rated value	1A			
operational current at DC-13				
at 24 V rated value	10 A			
at 48 V rated value	2 A			
at 60 V rated value	2 A			
at 110 V rated value	1A			
at 175 V rated value     at 125 V rated value	0.9 A			
	0.3 A			
a at 330 M 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	0.1 A gG: 10 A (230 V, 400 A)			
at 600 V rated value  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	0.1 A gG: 10 A (230 V, 400 A)			
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	0.1 A			
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	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)			
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	0.1 A gG: 10 A (230 V, 400 A)			
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	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)			
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	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)			
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	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA)			
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 assignment 2 required	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA)			
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 assignment 2 required  for short-circuit protection of the auxiliary switch required	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA)			
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 assignment 2 required  for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)			
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 assignment 2 required  for short-circuit protection of the auxiliary switch required	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA)			
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 assignment 2 required  for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface			
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 assignment 2 required  for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  GG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  GG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes			
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 assignment 2 required  for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  side-by-side mounting  height  width	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  GG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes  172 mm  120 mm			
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 assignment 2 required  for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  side-by-side mounting  height  width	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes  172 mm  120 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes  172 mm  120 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  GG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes  172 mm 120 mm 170 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  GG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  QG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes  172 mm 120 mm 170 mm  20 mm 10 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — downwards  — at the side	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  QG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes  172 mm  120 mm  170 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  GG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm  20 mm 10 mm 10 mm 0 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards	0.1 A  gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  QG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes  172 mm  120 mm  170 mm  20 mm  10 mm  0 mm  0 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — upwards  — upwards	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm  20 mm 10 mm 0 mm 0 mm			
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 assignment 2 required  for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  side-by-side mounting  height  width  depth  required spacing  with side-by-side mounting  forwards  upwards  downwards  at the side  for grounded parts  forwards  upwards  upwards  at the side  at the side	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm			
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 assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — upwards  — upwards	0.1 A gG: 10 A (230 V, 400 A)  1 faulty switching per 100 million (17 V, 1 mA)  No  gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm  20 mm 10 mm 0 mm 0 mm			

— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side  Connections/ Terminals	10 mm
type of electrical connection	Occupation has
• 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
connectable conductor cross-section for main contacts	
solid or stranded	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)
— solid or stranded	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>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Certificates/ approvals	

## **General Product Approval**





Confirmation



<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity		Test Certificates	
$\triangle$	Type Examination Certificate	UK	( (	Type Test Certificates/Test Report	Special Test Certificate





Marine / Shipping other









Confirmation

Confirmation

other Railway

Special Test Certificate Vibration and Shock Miscellaneous

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

om/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=3RT1456-6AP38-0PA5

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1456-6AP38-0PA5

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6AP38-0PA5

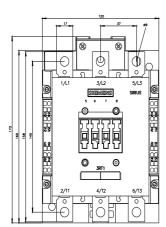
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1456-6AP38-0PA5&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1456-6AP38-0PA5&lang=en</a>

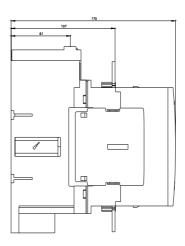
Characteristic: Tripping characteristics, I2t, Let-through current

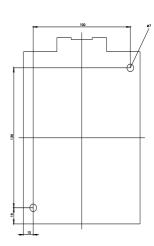
https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6AP38-0P

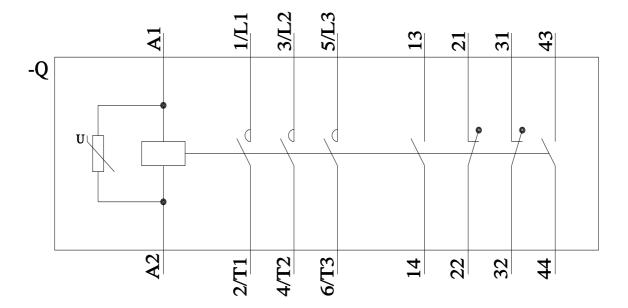
Further characteristics (e.g. electrical endurance, switching frequency)

-3RT1456-6AP38-0PA5&objecttype=14&gridview=view1









last modified: 7/8/2023 🖸

# **Mouser Electronics**

**Authorized Distributor** 

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

Siemens:

3RT14566AP380PA5