## **SIEMENS**

Data sheet 3RT1456-6SP36



power contactor AC-1 275 A / 690 V / 40  $^{\circ}$ C 3-pole, Uc: 200-277 V AC(50-60 Hz) / DC F-PLC input 24 V DC drive: electronic 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>	2.8 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 (operating cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
• of the contactor with added auxiliary switch block typical	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 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	7.0
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	275 A
— up to 690 V at ambient temperature 55 °C rated value	250 A
— up to 690 V at ambient temperature 60 °C rated value	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	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	200 277 V
at 60 Hz rated value	200 277 V
control supply voltage at DC	
rated value	200 277 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
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
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
● at 50 Hz	280 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	4.4 VA
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	
• 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)
Auxiliary circuit	Fail-safe PLC input (F-PLC-IN)
Auxiliary circuit number of NC contacts for auxiliary contacts	Fail-safe PLC input (F-PLC-IN) 2

product function short circuit protection  design of the fuse link		
# at 200 V rated value	operational current at AC-12 maximum	10 A
a at 400 V rated value   a 400 V rated value   2 A   A     at 500 V rated value   1 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   1 A     at 48 V rated value   2 A     at 10 V rated value   1 A     at 10 V rated value   0.3 A     at 22 V rated value   0.3 A     at 22 V rated value   0.3 A     at 28 V rated value   0.3 A     at 800 V rated value   0.3 A	•	
a st 500 V rated value         2.A           opprational current at 0C-13         ****		
• at 890 V rated value   10 A   10		
a 24 V rated value		
a   12 4V rated value		1 A
all 48 V rated value	•	
* al 125 V rated value		
* at 220 V rated value		
• at 800 V rated value   0.1 A   Gesign of the ministure 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)		
design of the ministure circuit breaker for short-circuit protection of the auxiliary switch required contact railability of auxiliary contacts   1 faulty switching per 100 million (17 V, 1 mA)		
of the auxiliary switch required contact reliability of auxiliary contacts  Short-circuit protection  product function short circuit protection  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required installation/mounting/ dimensions  mounting position  * side-by-side mounting  • with side-by-side mounting  • or or orwards — downwards — at the side — downwards — upwards — of orwards — upwards — of orwards — ownwards — ownward		
Short-circuit protection product function short circuit protection (asign of the fuse link (asign of the suxiliary switch required (asign of the fuse link) (asign of short-circuit protection of the auxiliary switch required (asign of the fuse link) (asign of short-circuit protection of the auxiliary switch required (asign of short-circuit protection of the auxiliary switch required (asign of short-circuit protection of the auxiliary switch required (asign of short-circuit protection of the auxiliary switch required (asign of short-circuit protection of the auxiliary switch required (asign of short-circuit protection) (asign of short-circuit protection) (asign of short-circuit protection) (asign of short-circuit protection) (asign of short-circuit asign of short-circuit protection) (asign of short-ci		gG: 10 A (230 V, 400 A)
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 • 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-pick protection of the auxiliary switch required protection of the auxiliary switch required   for short-pick protection of the auxiliary switch required   for short-p	contact reliability of auxiliary contacts	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 — with vertical mounting surface +/-90* rotatable, with vertical mounting surface • /-22,5* tilable to the front and back screw fixing • side-by-side mounting • side-by-side mounting  • with side-by-side mounting  — with side-by-side mounting — forwards — upwards — downwards — downwards — of main current circuit — downwards — upwards — of rowards — upwards — of rowards — upwards — of rowards — upwards — of mm — at the side — downwards — of mm — of live parts — forwards — upwards — ownwards — upwards — ownwards — ownwa	Short-circuit protection	
• for short-circuit protection of the main circuit — with type of coordination 1 required 9G: 355 A (690 V, 100 kA) 9 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the short-circuit protect	product function short circuit protection	No
— with type of coordination 1 required         gG: 355 A (690 V, 100 kA)           — with type of assignment 2 required         gR: 350 A (690 V, 100 kA)           — for short-circuit protection of the auxiliary switch required         gG: 10 A (500 V, 1 kA)           Installation/ mounting/ dimensions         with vertical mounting surface +/-90° rotatable, with vertical mounting surfa	design of the fuse link	
- with type of assignment 2 required of for short-circuit protection of the auxiliary switch required installation mounting/ dimensions  mounting position	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
• for short-circuit protection of the auxiliary switch required installation/ mounting dimensions  mounting position with vertical mounting surface +/-90° rotatable, with side of manual part of part surface +/-90° rotatable, with ver	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 355 A (690 V, 100 kA)
mounting position with vertical mounting surface +/-90* rotatable, with vertical mounting surface the fixed mounting surface the fixed mounting surface the fixed mounting surface +/-90* rotatable, with vertical mounting surface the fixed mounting surface the fixed mounting surface the fixed mounting surface +/-90* rotatable, with vertical mounting multiple surface +/-90* rotatable, with vertical mounting multiple surface +/-90* rotatable, with vertical mounting multiple surface +/-90* rotatable, with vertical mounting mul	<ul> <li>— with type of assignment 2 required</li> </ul>	gR: 350 A (690 V, 100 kA)
mounting position         with vertical mounting surface +/-90" rotatable, with vertical mounting surface +/-22.5" tiliable to the front and back           fastening method	for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
## - 22.5" titalple to the front and back  ## steening method		
side-by-side mounting  side-by-side mounting  required spacing  with side-by-side mounting  forwards  upwards  upwards  of or grounded parts  for grounded parts  upwards  upwards  for for grounded parts  for for for live parts  upwards  upwards  for live parts  for live parts  upwards  upwards  for live parts  for live parts  upwards  upwards  for live parts  for live parts  upwards  upwards  upwards  for live parts  for live parts  upwards  upwards  for live parts  for live parts  upwards  upwards  for live parts  for live parts  upwards  upwards  for live parts  upwards  for live parts  upwards  for live parts  upwards  upwards  for live parts  Connections  upwards  u	mounting position	
e side-by-side mounting         Yes           height         172 mm           width         120 mm           depth         170 mm           required spacing         Image: spacing mounting m	fastening method	
height         172 mm           width         120 mm           depth         170 mm           required spacing         ■ with side-by-side mounting           • with side-by-side mounting         20 mm           — forwards         10 mm           — downwards         10 mm           — at the side         0 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           — downwards         10 mm           — at the side         10 mm           Ownwards         10 mm           — at we side         10 mm           Or manufaction         0 mm           • for rainias         Connections/ Terminals           type of electrical connection         Connection bar           • for auxiliary and control circuit         screw-type terminals           • of magnet coil         Screw-type terminals           width of connection bar         17 mm           thickness of connection bar         3 mm	_	
width     120 mm       depth     170 mm       required spacing       with side-by-side mounting       — forwards     20 mm       — upwards     10 mm       — downwards     10 mm       — at the side     0 mm       — for grounded parts     20 mm       — upwards     10 mm       — at the side     10 mm       — downwards     10 mm       • for live parts     20 mm       — upwards     10 mm       — downwards     10 mm       — downwards     10 mm       — at the side     10 mm       Connections/ Terminals       type of electrical connection       • for main current circuit     Connection bar       • for main current 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     9 mm	·	
required spacing  with side-by-side mounting  - forwards - upwards - downwards - at the side  o nm  for grounded parts - upwards - upwards - upwards - for grounded parts - for grounded parts - for grounded parts - at the side - upwards - upwards - upwards - upwards - the side - downwards - to fire parts - for live parts - for live parts - for wards - upwards - upwards - upwards - to mm - at the side - to mm - at the side - to mm - at the side - to mm - to mm - at the side - to main current circuit - for main current circuit - for main current circuit - for main current circuit - of or main current circuit - of or auxiliary and control circuit - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - at contactor for auxiliary contacts - of magnet coil - screw-type terminals - screw-t	<del>-</del>	
required spacing  with side-by-side mounting  — forwards — upwards — odomwards — at the side — of or grounded parts — forwards — upwards — upwards — 10 mm — at the side — of or grounded parts — forwards — upwards — 10 mm — at the side — 10 mm — odomwards — 10 mm — odomwards — 10 mm — of or live parts — for live parts — forwards — upwards — upwards — 10 mm — odomwards — of main current circuit — for auxiliary and control circuit — for auxiliary and control circuit — at contactor for auxiliary contacts — of magnet coil  width of connection bar thickness of connection bar diameter of holes  number of holes  1 mm		
with side-by-side mounting  - forwards - upwards - downwards - at the side on m  for grounded parts - forwards - upwards - upwards - upwards - upwards - at the side - forwards - upwards - 10 mm - at the side - 10 mm - at the side - downwards - 10 mm - for live parts - for live parts - forwards - upwards - upwards - upwards - upwards - 10 mm - at the side - downwards - upwards - upwards - upwards - upwards - upwards - at the side - downwards - at the side - at contactor for auxiliary contacts - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary contacts - at contactor for auxiliary cont	·	
forwards 20 mm upwards 10 mm downwards 10 mm at the side 0 mm  for grounded parts forwards 20 mm upwards 10 mm upwards 10 mm at the side 10 mm downwards 10 mm downwards 10 mm downwards 20 mm for live parts forwards 20 mm upwards 10 mm to live parts forwards 20 mm upwards 10 mm at the side 10 mm downwards 10 mm downwards 10 mm downwards 10 mm at the side 10 mm at the side 10 mm at the side 50 mm at the side 50 mm to main current circuit 50 connection bar 50 crew-type terminals 50 crew-typ		
- upwards 10 mm - downwards 10 mm - 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 - upwards 10 mm - at the side 10 mm - downwards 10 mm - downwards 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 diameter of holes 9 mm number of holes	, ,	20 mm
- downwards - at the side 0 mm  • for grounded parts - forwards - upwards - at the side 10 mm - downwards 10 mm • for live parts - forwards 20 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - at the side 10 mm  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar diameter of holes  number of holes  1		
- 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  • for live parts  - forwards 10 mm  - downwards 10 mm  - downwards 10 mm  - upwards 10 mm  - downwards 10 mm  - downwards 10 mm  - downwards 10 mm  - for main current circuit Connection 10 mm  • for auxiliary and control circuit 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  11	·	10 mm
- 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 - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 50 mm - the side 50 mm  Connections/ Terminals  type of electrical connection • for main current circuit 50 connection bar 50 connection bar 50 connection 50 corrections • at contactor for auxiliary contacts 50 corew-type terminals • of magnet coil 50 corew-type terminals	— at the side	0 mm
- 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 - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 50 mm - the side 50 mm  Connections/ Terminals  type of electrical connection • for main current circuit 50 connection bar 50 connection bar 50 connection 50 corrections • at contactor for auxiliary contacts 50 corew-type terminals • of magnet coil 50 corew-type terminals		
- upwards 10 mm - at the side 10 mm - downwards 10 mm  • for live parts - forwards 20 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 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		20 mm
at the side 10 mm downwards 10 mm  • for live parts forwards 20 mm upwards 10 mm downwards 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 thickness of connection bar diameter of holes 9 mm number of holes 11		
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar diameter of holes  10 mm  Connection bar Connection bar Screw-type terminals Screw-type terminals Screw-type terminals  17 mm  17 mm  18 mm  19 mm  19 mm  10 mm	·	
- 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	— downwards	10 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	• for live parts	
- downwards - at the side 10 mm  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  width of connection bar  thickness of connection bar  diameter of holes  10 mm  Connection bar  Connection bar  screw-type terminals  Screw-type terminals  Your thickness of connection bar  a mm  g mm	— forwards	20 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	— upwards	10 mm
type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar  thickness of connection bar  diameter of holes  10  Connection bar Screw-type terminals Screw-type terminals Screw-type terminals 17 mm  17 mm  18 mm  19 mm  19 mm	— downwards	10 mm
type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar  thickness of connection bar  diameter of holes  10  Connection bar Screw-type terminals Screw-type terminals Screw-type terminals  17 mm  18 mm  19 mm  19 mm	— at the side	10 mm
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>Connection bar</li> <li>17 mm</li> <li>3 mm</li> <li>9 mm</li> </ul>	Connections/ Terminals	
<ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>screw-type terminals</li> <li>17 mm</li> <li>mm</li> <li>mm</li> <li>1 mm</li> </ul>	type of electrical connection	
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>1</li> </ul>	• for main current circuit	Connection bar
● 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	<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
width of connection bar17 mmthickness of connection bar3 mmdiameter of holes9 mmnumber of holes1	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
thickness of connection bar 3 mm diameter of holes 9 mm number of holes 1	of magnet coil	Screw-type terminals
diameter of holes 9 mm number of holes 1	width of connection bar	17 mm
number of holes 1	thickness of connection bar	3 mm
	diameter of holes	9 mm
connectable conductor cross-section for main contacts	number of holes	1
	connectable conductor cross-section for main contacts	

solid or stranded	25 120 mm²
	25 120 mm²
stranded	25 120 mm
connectable conductor cross-section for auxiliary contacts	0.5 4 2
solid or stranded	0.5 4 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— 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)
for AWG cables for auxiliary contacts	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
safety device type according to IEC 61508-2	Type B
B10 value with high demand rate according to SN 31920	1 000 000
Safety Integrity Level (SIL) according to IEC 61508	2
SIL Claim Limit (subsystem) according to EN 62061	2
performance level (PL) according to EN ISO 13849-1	С
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
PFHD with high demand rate according to EN 62061	4.5E-7 1/h
PFDavg with low demand rate according to IEC 61508	0.007
MTBF	75 a
hardware fault tolerance according to IEC 61508	0
T1 value for proof test interval or service life according to IEC 61508	20 a
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

## **General Product Approval**



Confirmation





<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Cer**tificate** 





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**Special Test Certific-**

Type Test Certificates/Test Report

other		Railway		
Confirmation	Miscellaneous	Vibration and Shock	Special Test Certific-	

## Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

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

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an

EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=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

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

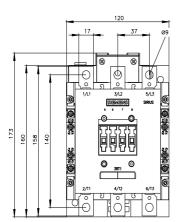
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1456-6SP36&lang=en

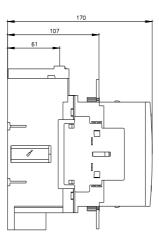
Characteristic: Tripping characteristics, I2t, Let-through current

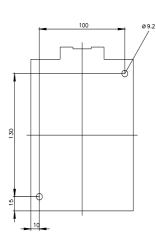
https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6SP36/char

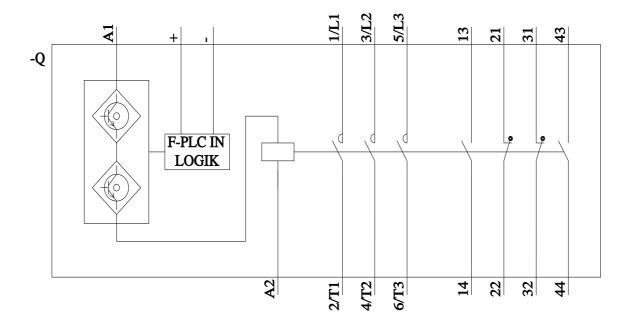
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1456-6SP36&objecttype=14&gridview=view1









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