## **SIEMENS**

Data sheet 3RT1075-6AD36

SIRIUS





power contactor, AC-3e/AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC Uc: 42-48 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal



product brand name	SINIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	105 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	35 W
without load current share typical	10 W
type of calculation of power loss depending on pole	quadratic
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	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
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)	
SVHC substance name	Lead - 7439-92-1
Weight	10.306 kg
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
operating voltage	
at AC-3 rated value maximum	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	430 A
— up to 690 V at ambient temperature 40 °C rated value	430 A
— up to 690 V at ambient temperature 60 °C rated value	400 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	200 A
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	200 A
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-4 at 400 V rated value	350 A
• at AC-5a up to 690 V rated value	378 A
• at AC-5b up to 400 V rated value	332 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	395 A
— up to 400 V for current peak value n=20 rated value	395 A
— up to 500 V for current peak value n=20 rated value	395 A
— up to 690 V for current peak value n=20 rated value	395 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	180 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	264 A
— up to 400 V for current peak value n=30 rated value	264 A
— up to 500 V for current peak value n=30 rated value	264 A
— up to 690 V for current peak value n=30 rated value	264 A
— up to 1000 V for current peak value n=30 rated value	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value	150 A
at 400 V rated value     at 690 V rated value	135 A
operational current	100 A
at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	330 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A

1000 // 1 1 1	0.0.4
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	400 A
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
with 3 current paths in series at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	400 A
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-	
4 a at 400 V rated value	OE WAY
at 600 V rated value	85 kW
• at 690 V rated value	133 kW
operating apparent power at AC-6a	150 000 kV/A
up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value	150 000 kVA
• up to 400 V for current peak value n=20 rated value	270 000 VA
up to 500 V for current peak value n=20 rated value	340 000 VA
• up to 690 V for current peak value n=20 rated value	470 000 VA
up to 1000 V for current peak value n=20 rated value	310 000 VA
operating apparent power at AC-6a	100 000 \/A
• up to 230 V for current peak value n=30 rated value	100 000 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	180 000 VA

<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	220 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	310 000 VA
• up to 1000 V for current peak value n=30 rated value	310 000 VA
short-time withstand current in cold operating state up to 40 $^{\circ}\text{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	6 600 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	5 761 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	4 143 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	2 635 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	2 088 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	2 000 7, 000 minimum cross coston acc. to 710 Trated value
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	2 000 1/11
at AC-1 maximum	700 1/h
• at AC-2 maximum	200 1/h
• at AC-3 maximum	500 1/h
at AC-3e maximum	500 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	42 48 V
at 60 Hz rated value	42 48 V
control supply voltage at DC rated value	42 48 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	
at minimum rated control supply voltage at AC	
— at 50 Hz	700 VA
— at 60 Hz	700 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	830 VA
— at 50 Hz	830 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	830 VA
• at 60 Hz	830 VA
inductive power factor with closing power of the coil	000 77
	0.0
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power	0.5.1/4
at minimum rated control supply voltage at DC	8.5 VA
at maximum rated control supply voltage at DC	10 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	7.6 VA
— at 60 Hz	7.6 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	9.2 VA
— at 60 Hz	9.2 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.9
• at 60 Hz	
	0.9
closing power of magnet coil at DC	0.9 920 W

closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 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 instantaneous contact	2
number of NO contacts for auxiliary contacts 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-12	
at 24 V rated value	10 A
• at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
• at 600 V rated value	0.15 A
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 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	risally officering por 100 minor (1.1.1)
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	361 A
at 600 V rated value     at 600 V rated value	382 A
	302 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	405 hp
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 630 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90 $^\circ$ rotatable, with vertical mounting surface +/- 22.5 $^\circ$ tiltable to the front and back
fastening method	screw fixing
height	214 mm
width	160 mm
depth	225 mm
required spacing	

* win sock sys act nounting	with a fall by a fall and a second to a	
- upwards	with side-by-side mounting	00
dowwards at the side for grounded parts forwards upwards upwards dowwards doww		
at the side  • for grounded parts  torwards  upwards  at the side  downwards  forwards	•	
• for grounded parts  — Lowards — upwards — the side — downwards — to line • for live parts — Lowards — upwards — to make the side — downwards — upwards — to make the side the side — to make the side		
forwards		0 mm
- upwards	<ul> <li>for grounded parts</li> </ul>	
	— forwards	20 mm
Ownwards   Own	— upwards	10 mm
	— at the side	10 mm
forwards upwards upwards downwards downwards downwards downwards downwards downwards downwards the side the side the side the side the side	— downwards	10 mm
- upwards	<ul> <li>for live parts</li> </ul>	
downwards at the side 10 mm  Connections Terminis  Type of electrical connection  • for auxiliary and control circuit screw-type terminals  • at contactor for auxiliary contacts  • of magnet coil Screw-type terminals  • of avoil	— forwards	20 mm
Connections/Torminals  Veps of electrical connection  • for main current circuit  • for auxiliary and control circuit  • of magnet coll  width of connection bar  of magnet coll  width of connection bar  diameter of holes  1 mm  number of holes  1 tmm  number of holes  1 tmm  number of holes  • for AWG cables for main contacts  • stranded  Connectable conductor cross-section for main contacts  • stranded  connectable conductor cross-section for main contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • solid or stranded  for auxiliary contacts  • for auxiliary contacts  • solid or stranded  connectable conductor cross-sections  • for auxiliary contacts  • for aux	— upwards	10 mm
type of electrical connection  of or main contacts  of or auxiliary contacts  of many connection bar  of many connection bar  of many connection bar  of many connection bar  diameter of holes  of AWG cables for main contacts  of auxiliary contacts  of auxiliary contacts  of many contacts  of award connectable conductor cross-sections  of award contacts  of award contacts  of auxiliary contacts  of a	— downwards	10 mm
type of electrical connection  • for main current circuit  • at contactor for auxiliary contacts  • at contactor bar  thickness of connection bar  thickness of connection bar  thickness of connectable conductor cross-sections  • for AWG cables for main contacts  • solid or stranded  connectable conductor cross-section for main contacts  • solid or stranded  connectable conductor cross-section for auxiliary contacts  • solid or stranded  connectable conductor cross-sections  • for auxiliary contacts  • solid or stranded  conductable conductor cross-sections  • for auxiliary contacts  • solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-sections  • for auxiliary contacts  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section  • for for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section  • for auxiliary contacts  Safety related data  product function  • minor contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • positively driven operation according to IEC 60947-5-1  • positively driven operation according to IEC 60947-5-1  • positively driven operation according to IEC 80947-5-1  • positively driven operation according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  For according to ISO 13849-1  • overdimensioning according to IEC 81588-2  Type A  Type A	— at the side	10 mm
• for main current circuit     • for auxilary and control circuit     • at contactor for auxillary contacts     • of magnet coil     • of connectable conductor cross-sections     • of or AVVG cables for main contacts     • stranded     • of or auxiliary contacts     • of or oxiliar	Connections/ Terminals	
• for auxillary and control circuit • at contactor for auxillary contacts • of magnet coil  width of connection bar thickness of connection bar thickness of connection bar (diameter of holes  11 mm  number of holes  11 type of connectable conductor cross-sections • for ANG cables for main contacts • stranded  connectable conductor cross-section for main contacts • stranded  connectable conductor cross-section for main contacts • stranded  connectable conductor cross-section for auxilliary contacts • solid or stranded • finely stranded with core end processing • for auxillary contacts  — solid — solid or stranded — solid or stranded — solid or stranded — solid or stranded with core end processing • for auxillary contacts  — solid — solid or stranded with core end processing • for auxillary contacts  — solid — solid or stranded with core end processing • for for ANG cables for auxillary contacts  — solid — solid or stranded with core end processing • for ANG cables for auxillary contacts  — solid — finely stranded with core end processing • for ANG cables for auxillary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.	type of electrical connection	
• at contactor for auxiliary contacts of magnet coil width of connection bar  25 mm  1 thickness of connection bar  diameter of holes 11 mm  number of holes 11 type of connectable conductor cross-sections • for AWG cables for main contacts • stranded connectable conductor cross-section for auxiliary contacts • stranded connectable conductor cross-section for auxiliary contacts • stranded inney stranded with core end processing  • for auxiliary contacts  — solid or stranded — solid	for main current circuit	Connection bar
• at contactor for auxiliary contacts of magnet coil width of connection bar  25 mm  1 thickness of connection bar  diameter of holes 11 mm  number of holes 11 type of connectable conductor cross-sections • for AWG cables for main contacts • stranded connectable conductor cross-section for auxiliary contacts • stranded connectable conductor cross-section for auxiliary contacts • stranded inney stranded with core end processing  • for auxiliary contacts  — solid or stranded — solid	• for auxiliary and control circuit	screw-type terminals
of magnet coll     width of connection bar     diameter of holes     diameter of holes     number of holes     introduce the conductor cross-sections     if or AWG cables for main contacts         stranded     connectable conductor cross-section for main contacts         stranded     connectable conductor cross-section for main contacts         stranded     connectable conductor cross-section for auxiliary contacts         solid or stranded         sind or stranded         sind or stranded         stranded         sind or stranded         sind or stranded         solid or strand	•	
width of connection bar thickness of connection bar diameter of holes 11 mm number of holes 11 mm number of holes 120500 kcmil connectable conductor cross-sections • for AWC ables for main contacts • stranded • finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - for AWC cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWC cables for savillary contacts - solid or stranded - finely stranded with core end processing - for AWC cables for savillary contacts - solid solid solid or stranded - finely stranded with core end processing - for AWC cables for savillary contacts - solid solid or stranded - finely stranded with core end processing - for AWC aubles for savillary contacts - solid solid or stranded - finely stranded with core end processing - for AWC aubles for savillary contacts - solid or stranded - finely stranded with core end processing - for AWC aubles for savillary contacts - solid or stranded - finely stranded with core end processing - for AWC aubles for savillary contacts - solid or stranded - finely stranded with core end processing - for AWC aubles for savillary contacts - solid or stranded - solid or strander - solid - solid or strander - solid - solid or strande	•	**
thickness of connection bar diameter of holes 11 mm number of holes 120		*
diameter of holes  number of holes  1 type of connectable conductor cross-sections  • for AWG cables for main contacts  2/0 500 kcmil  connectable conductor cross-section for main contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for auxiliary contacts  — solid or stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for auxiliary contacts  18 14  Safety related data  product function  • mirror contact according to IEC 60947-6-1  • suitable for safety function  • mirror contact according to IEC 60947-5-1  • suitable for safety function  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low dema		
number of holes  type of connectable conductor cross-sections	diameter of holes	
type of connectable conductor cross-sections  • for AWG cables for main contacts  • stranded  connectable conductor cross-section for main contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • solid or stranded  sfinely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1.5 mm²), 2	number of holes	
onnectable conductor cross-section for main contacts		
connectable conductor cross-section for main contacts		2/0 500 kcmil
stranded      connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         • for auxiliary contacts         • solid         • solid or stranded         • for auxiliary contacts         • solid         - solid or stranded         - solid or stranded         - finely stranded with core end processing         • for AWG cables for auxiliary contacts          - solid or stranded         - finely stranded with core end processing         • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section         • for auxiliary contacts         - solid or stranded data  product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • suitable for safety function         • with rouse safety-related switching OFF         - service life maximum		20 000 KONIII
connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid or stranded — finely stranded with core end processing  • for AWG cables for auxiliary contacts  — solid or stranded — finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), max. 2x (0.75 4 mm²)  2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), max. 2x (0.75 4 mm²)  2x (20 1,5 mm²), 2x (0.75 2,5 mm²)  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 1x 12  AWG number as coded connectable conductor cross section  • for auxiliary contacts  18 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitability for use safety-related switching OFF  yes  suitability for use safety-related switching OFF  yes  service life maximum  20 a  test wear-related service life necessary  yes  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  1000 000  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A		70 240 mm²
• solid or stranded • finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts  - solid - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  - finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  - finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 1x 12   AWG number as coded connectable conductor cross section • for auxiliary contacts  18 14  Safety related data  product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitablity for use safety-related switching OFF  Yes  suitablity for use safety-related switching OFF  Yes  service life maximum  20 a  test wear-related service life necessary  yes  proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920  1000 000  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  iso 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes  IEC 61508  safety device type according to IEC 61508-2  Type A		70 240 Hilli
• finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  — solid — 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) — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12  AWG number as coded connectable conductor cross section  • for auxiliary contacts 18 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 Yes  suitability for use safety-related switching OFF Yes service life maximum 20 a  test wear-related service life necessary Yes  proportion of dangerous failures • with low demand rate according to SN 31920 40 with high demand rate according to SN 31920 73 %  B10 value with high demand rate according to SN 31920 1000 000  failure rate [FIT] with low demand rate according to SN 31920 1000 FIT 31849  device type according to ISO 13849-1 30 overdimensioning according to ISO 13849-2 necessary Yes  IEC 61508  safety device type according to IEC 61508-2 Type A	-	0.5 4 mm <sup>2</sup>
type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — 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)  — finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), max. 2x (0.75 4 mm²)  • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12  AWG number as coded connectable conductor cross section  • for auxiliary contacts 18 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1 Yes  • positively driven operation according to IEC 60947-5-1 No  • suitability for use safety-related switching OFF Yes  service life maximum 20 a  test wear-related service life necessary Yes  proportion of dangerous failures  • with low demand rate according to SN 31920 40 %  • with low demand rate according to SN 31920 1000 000  failure rate [FIT] with low demand rate according to SN 31920 1000 000  failure rate [FIT] with low demand rate according to SN 31920 1000 000  failure rate [FIT] with low demand rate according to SN 31920 100 FIT  SISO 13849  device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary Yes  IEC 61508  safety device type according to IEC 61508-2 Type A		
• for auxiliary contacts  — solid — solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts — 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) — finely stranded with core end processing — for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section — for auxiliary contacts — 18 14  Safety related data  product function — mirror contact according to IEC 60947-8-1 — positively driven operation according to IEC 60947-5-1 — suitablie for safety function — suitablie for safety function — suitablier for auxiliary contacts  setting  Yes  sorvice life maximum — 20 a  test wear-related service life necessary — with low demand rate according to SN 31920 — with high demand rate according to SN 31920 — with high demand rate according to SN 31920 — with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-2 necessary  Fyes  Type A  Type A		0.5 2.5 11111
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) finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), max. 2x (0.75 4 mm²) for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12  AWG number as coded connectable conductor cross section for auxiliary contacts 18 14  Safety related data  product function mirror contact according to IEC 60947-4-1 Yes positively driven operation according to IEC 60947-5-1 No suitable for safety function Yes suitability for use safety-related switching OFF Yes suitability for use safety-related switching OFF Yes service life maximum 20 a  test wear-related service life necessary Yes  proportion of dangerous failures with low demand rate according to SN 31920 40 % with high demand rate according to SN 31920 73 % B10 value with high demand rate according to SN 31920 1000 000  failure rate [FIT] with low demand rate according to SN 31920 100 FIT 31920  ISO 13849  device type according to ISO 13849-2 necessary IEC 61508  safety device type according to IEC 61508-2 Type A		
solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section for auxiliary contacts  18 14  Safety related data  product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function suitable for safety function suitable for safety-related switching OFF service life maximum with low demand rate according to SN 31920 with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2  Type A  finely stranded with core and processing according to IEC 40,5 1,5 mm², 2x (0.75 2,5 mm²), 2x (0.75 .	•	2v (0.5
- finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 1x 12  AWG number as coded connectable conductor cross section  • for auxiliary contacts  18 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  suitability for use safety-related switching OFF  yes service life maximum  20 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to IEC 61508-2  Type A		
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for auxiliary contacts  18 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function  • suitable for safety function  • suitablify for use safety-related switching OFF  service life maximum  20 a  test wear-related service life necessary  proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920  ### B10 value with high demand rate according to SN 31920  ### B10 value with high demand rate according to SN 31920  ### B10 value with low demand rate according to SN 31920  ### B10 v		
AWG number as coded connectable conductor cross section  • for auxiliary contacts  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  suitability for use safety-related switching OFF  yes  service life maximum  20 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  1000 000  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A	· · · · · · · · · · · · · · · · · · ·	
section  • for auxiliary contacts  It 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  suitability for use safety-related switching OFF  yes  service life maximum  20 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  To allure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  ISO 1508  safety device type according to IEC 61508-2  Type A	·	2x (20 16), 2x (18 14), 1x 12
• for auxiliary contacts  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  • suitable for safety function  • suitablility for use safety-related switching OFF  service life maximum  20 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  1000 000  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A		
product function		18 14
product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  • suitability for use safety-related switching OFF  service life maximum  20 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  **Suitability for use safety-related switching OFF  yes  service life maximum  20 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  **Suitability for use safety-related switching OFF  yes  proportion of dangerous failures  • with low demand rate according to SN 31920  1000 000  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A		10 14
mirror contact according to IEC 60947-4-1     positively driven operation according to IEC 60947-5-1     positively driven operation according to IEC 60947-5-1     No     suitable for safety function     yes  suitability for use safety-related switching OFF     yes  service life maximum     20 a  test wear-related service life necessary     yes  proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A	· ·	
positively driven operation according to IEC 60947-5-1     suitable for safety function     suitability for use safety-related switching OFF     yes     service life maximum     20 a     test wear-related service life necessary     yes     proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with high demand rate according to SN 31920     B10 value with high demand rate according to SN 31920     Iso 13849     device type according to ISO 13849-1     overdimensioning according to ISO 13849-2 necessary     IEC 61508     safety device type according to IEC 61508-2     Type A	•	Voc
suitable for safety function     suitability for use safety-related switching OFF     service life maximum     20 a  test wear-related service life necessary     Yes  proportion of dangerous failures     with low demand rate according to SN 31920     with high demand rate according to SN 31920     with high demand rate according to SN 31920     B10 value with high demand rate according to SN 31920     failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1     overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A		
suitability for use safety-related switching OFF  service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A		
test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A	-	
test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A		
proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A		
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Type A</li> </ul>	·	Yes
● with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1 3  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2 Type A		
B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 100 FIT  31920  ISO 13849  device type according to ISO 13849-1 3  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2 Type A	-	
failure rate [FIT] with low demand rate according to SN 31920  ISO 13849 device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 safety device type according to IEC 61508-2 Type A		
31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 Type A		
device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A		100 FIT
device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 safety device type according to IEC 61508-2 Type A		
overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A		2
IEC 61508 safety device type according to IEC 61508-2  Type A		
safety device type according to IEC 61508-2 Type A		Yes
Electrical Safety		Type A
	Electrical Safety	

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Approvals Certificates

## **General Product Approval**







Confirmation





**EMV** 

**Functional Saftey** 

**Test Certificates** 

Marine / Shipping



Type Examination Cer**tificate** 

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

Type Test Certificates/Test Report





Marine / Shipping

other







Confirmation

**Miscellaneous** 

Confirmation

Railway

**Environment** 

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



**EcoTech** 



**Environmental Confirmations** 

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=3RT1075-6AD36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6AD36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075

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

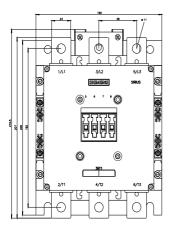
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1075-6AD36&lang=en

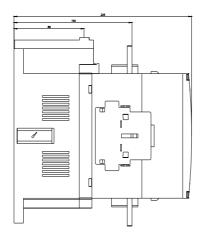
Characteristic: Tripping characteristics, I2t, Let-through current

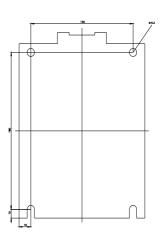
https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AD36/char

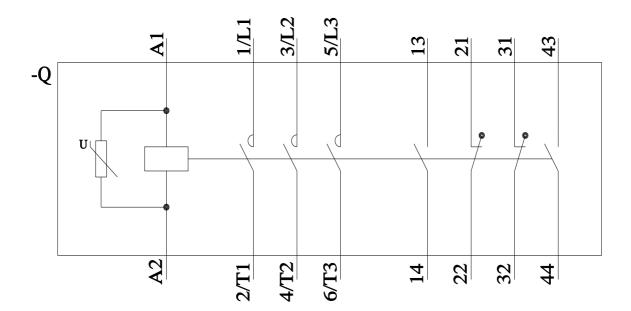
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6AD36&objecttype=14&gridview=view1









last modified:

