## **SIEMENS**

Data sheet 3RT1065-6AP36

SIRIUS





power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC Uc: 220-240 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	S10
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	54 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	18 W
<ul> <li>without load current share typical</li> </ul>	7.4 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)	
of contactor typical	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
SVHC substance name	Lead - 7439-92-1
Weight	6.54 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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	548 kg
global warming potential [CO2 eq] during manufacturing	31.5 kg
global warming potential [CO2 eq] during sales	2.6 kg
global warming potential [CO2 eq] during operation	521 kg
global warming potential [CO2 eq] after end of life	-7.22 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
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
at AC-3e rated value maximum	1 000 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	330 A
• at AC-1	220 A
— up to 690 V at ambient temperature 40 °C rated value	330 A 300 A
— up to 690 V at ambient temperature 60 °C rated value	150 A
<ul> <li>— up to 1000 V at ambient temperature 40 °C rated value</li> <li>— up to 1000 V at ambient temperature 60 °C rated</li> </ul>	150 A
value  • at AC-3	190 A
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	230 A
• at AC-5a up to 690 V rated value	290 A
• at AC-5b up to 400 V rated value	219 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	265 A
— up to 400 V for current peak value n=20 rated value	265 A
— up to 500 V for current peak value n=20 rated value	265 A
— up to 690 V for current peak value n=20 rated value	265 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	95 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	184 A
— up to 400 V for current peak value n=30 rated value	184 A
— up to 500 V for current peak value n=30 rated value	184 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	184 A 95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	117 A

at 690 V rated value	105 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 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	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 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	5.2 A
— at 24 V rated value	300 A
— at 60 V rated value	11 A
— at 110 V rated value	3 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
with 2 current paths in series at DC-3 at DC-5     — at 24 V rated value	200 A
	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 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
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 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	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	
4	
<ul> <li>at 400 V rated value</li> </ul>	66 kW

operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	100 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	180 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	220 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	310 kVA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	160 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	70 kVA
• up to 400 V for current peak value n=30 rated value	120 kVA
• up to 500 V for current peak value n=30 rated value	150 kVA
• up to 690 V for current peak value n=30 rated value	220 kVA
up to 1000 V for current peak value n=30 rated value	160 kVA
short-time withstand current in cold operating state up to	100 KVY
40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	4 880 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	4 045 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	2 785 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	1 664 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	1 276 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	250 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	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	
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	490 VA
— at 60 Hz	490 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 60 Hz	590 VA
— at 50 Hz	590 VA
apparent pick-up power of magnet coil at AC	
apparent pick-up power of magnet coil at AC  • at 50 Hz	590 VA
	590 VA 590 VA
• at 50 Hz	
• at 50 Hz • at 60 Hz	
at 50 Hz     at 60 Hz  inductive power factor with closing power of the coil	590 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	590 VA 0.9
at 50 Hz  at 60 Hz  inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  apparent holding power	590 VA 0.9
at 50 Hz  at 60 Hz  inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  apparent holding power  at minimum rated control supply voltage at DC	590 VA  0.9  0.9  6.1 VA
at 50 Hz  at 60 Hz  inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  at 60 Hz  apparent holding power  at minimum rated control supply voltage at DC  at maximum rated control supply voltage at DC	590 VA 0.9 0.9
at 50 Hz  at 60 Hz  inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  at 60 Hz  apparent holding power  at minimum rated control supply voltage at DC  at maximum rated control supply voltage at DC  apparent holding power	590 VA  0.9 0.9 6.1 VA
at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC	590 VA  0.9  0.9  6.1 VA

10011	501/4
— at 60 Hz	5.6 VA
at maximum rated control supply voltage at AC	
— at 50 Hz	6.7 VA
— at 60 Hz	6.7 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	650 W
holding power of magnet coil at DC	7.4 W
closing delay	00 05
• at AC	30 95 ms 30 95 ms
• at DC	30 95 IIIS
opening delay	40 00 00
• at AC	40 80 ms
• at DC	40 80 ms 10 15 ms
arcing time	Standard A1 - A2
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	2
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
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
• at 48 V rated value	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	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	1 A
• 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	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	240 A
at 600 V rated value	242 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	77.1
— at 200/208 V rated value	75 hp
— at 220/230 V rated value	100 hp
— at 460/480 V rated value	200 hp
— at 575/600 V rated value	250 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxilians circuit up to 220 V	C characteristic: 10 A; 0.4 kA
of the auxiliary circuit up to 230 V	
design of the fuse link  • for short-circuit protection of the main circuit	
processor of the main official	

- with type of assignment 2 required NAI show the process of the short-occup protection of the auxiliary switch required shatlation menting dimensions  - which shatlation menting dimensions  - which shall be shadled by side mounting the shatlation of the shall be	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 500 A (690 V, 100 kA)
* for short-circuit protection of the audilary switch required mounting position  **mounting position  **mounting position  **mounting position  **mounting position  **mounting position  **mounting method side-by-side mounting  **restering method  **serve fraing  **height  **20 mm  **leight  **position  *		
mounting position mounting position settlement of settlement of the front and back.  **2.25" stable to the front and back.  **2.25" stable to the front and back.  **3.25" stable to the front and back.  **4.22.5" stable to the front and back.  **4.22.5" stable to the front and back.  **5.25"		
mounting position  ### vertical mounting surface +/40" rolatable, with vertical mounting surface #### vertical mounting surface +/40" rolatable, with vertical mounting surface #### vertical mounting #### ve	for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
fastening method side-by-side mounting  Fastening method and back fastening method and back fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method and back  fastening method  fastening method and back  fastening method  fastening method and back  fastening method  fastening method and back  fastening method  fastening	Installation/ mounting/ dimensions	
fastering method	mounting position	
Meditable	fastening method side-by-side mounting	Yes
Width   148 mm   202 mm   20	fastening method	screw fixing
depth	height	210 mm
required spacing  with side-by-side mounting  —forwards — upwards — to mm — at the side — for grounded parts — for grounded parts — for grounded parts — upwards — upwards — upwards — the side — upwards — the side — upwards — to mm — the side — upwards — upwards — to mm — upwards — to mm — upwards — upwards — upwards — upwards — upwards — to mm — at the side — upwards — upwards — upwards — to mm — at the side — upwards — to mm — the side — the	width	145 mm
with side-by-side mounting     — forwards     — upwards     — downwards     — at the side     of or grounded parts     — forwards     — forwards     — forwards     — upwards     — forwards     — upwards     — upwards     — at the side     — downwards     — at the side     — downwards     — to five parts     — forwards     — forwards     — upwards     — up	depth	202 mm
forwards	required spacing	
- upwards	with side-by-side mounting	
- downwards - at the side	— forwards	20 mm
- at the side  • for grounded parts  - forwards  - upwards  - at the side  - downwards  - downwards  - for live parts  - forwards  - upwards  - downwards  - upwards  - downwards  - downwards  - to mm  - at the side  10 mm  - downwards  - upwards  - to mm  - to main current circuit  • for main current circuit  • for auxiliary and control circuit  • for auxiliary contacts  • of magnet coil  width of connection bar  diameter of holes  11 mm  number of holes  12 pm  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  - finely stranded with core end processing  • for AWG cables for auxiliary contacts  • for awiliary contacts  - solid - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  • for awiliary contacts  - solid - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  • for awiliary contacts  - solid - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  • for awiliary contacts  - solid - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  • for awiliary contacts  - solid - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  • for awiliary contacts  - solid - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  • for awiliary contacts  - solid - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  - solid - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  - solid - solid or stranded  - finely stranded with core end processing  • for awiliary contacts  - soli	— upwards	10 mm
• for grounded parts  - forwards - upwards - at the side - downwards - for live parts - forwards - upwards - forwards - upwards - forwards - upwards - downwards - downwards - downwards - downwards - downwards - at the side - downwards - at the side - for advising and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - at conacctor for auxiliary contacts - of magnet coil - with a for an expert of the second control circuit - for auxiliary and control circuit - for auxiliary and control circuit - at connectable conductor or auxiliary and control circuit - at connectable conductor or auxiliary and control circuit - at connectable conductor for auxiliary and control circuit - at connectable conductor for auxiliary and control circuit - at connectable conductor cross-sections - for AWG cables for main contacts - stranded - solid or stranded - solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid - solid or stra	— downwards	10 mm
forwards	— at the side	0 mm
- upwards - at the side - downwards • for live parts - forwards - for live parts - forwards - upwards - downwards - upwards - downwards - at the side - for main current circuit - for auxiliary and control circuit - for auxiliary contacts - at contactor for auxiliary contacts - for magnet coil - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid - solid or stranded - solid -	<ul> <li>for grounded parts</li> </ul>	
- at the side	— forwards	20 mm
- downwards • for live parts - for wards - for wards - upwards - upwards - downwards - downwards - the side  Connections/ Terminals  type of electrical connection • for main current oricuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar thickness of connection bar diameter of holes 11 mm number of holes 12 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 - s	— upwards	10 mm
• for live parts  - forwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection  • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar diameter of holes type of electrical conductor cross-sections • for AWG cables for main corrent contacts • stranded connectable conductor cross-section for main contacts • solid or stranded • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for awilliary contacts - solid or stranded - finely stranded with core end processing • for awilliary contacts - solid or stranded - finely stranded with core end processing • for awilliary contacts - solid or stranded - finely stranded with core end processing • for awilliary contacts - solid or stranded - finely stranded with core end processing • for awilliary contacts - solid or stranded - finely stranded with core end processing • for awilliary contacts  AWG number as coded connectable conductor cross-sections • for awilliary contacts  AWG number as coded connectable conductor cross-section • for awilliary contacts  AWG number as coded connectable conductor cross-section • for awilliary contacts  18 14  Safety related data  product function • imiror contact according to IEC 60947-5-1 • positively driven operation according to IEC 60947-5-1  No	— at the side	10 mm
forwards upwards 10 mm downwards the side 10 mm at the side 10 mm at the side 10 mm at the side 10 mm	— downwards	10 mm
- upwards - downwards 10 mm 10	• for live parts	
- downwards - at the side 10 mm  Connections/ Terminals  type of electrical connection  of auxiliary and control circuit elements of holes type of connection bar elements of holes connectable conductor cross-section for main contacts elstranded efinely stranded with core end processing efor auxiliary contacts  of or auxiliary contacts  10 mm  Connectable conductor cross-sections elinely stranded with core end processing efor auxiliary contacts  - solid or stranded - finely stranded with core end processing efor auxiliary contacts  of or AWG cables for auxiliary contacts  of or AWG cables for auxiliary contacts  efor AWG cables for auxiliary contacts  of or auxiliary contacts  AWG number as coded connectable conductor cross-section of or auxiliary contacts  18 14  Safety related data  product function  mirror contact according to IEC 60947-5-1  No	— forwards	20 mm
Connections / Terminals  type of electrical connection  • for main current circuit  • for auxillary and control circuit  • at contactor for auxillary contacts  • at contactor for auxillary contacts  • of magnet coil  width of connection bar  thickness of connection bar  diameter of holes  1 type of connectable conductor cross-sections  • for AWG cables for main contacts  • stranded  connectable conductor cross-section for auxillary contacts  • solid or stranded  • finely stranded with core end processing  • for awxillary contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for auxillary contacts  - solid or stranded  - finely stranded with core end processing  • for auxillary contacts  - solid or strande  - finely stranded with core end processing  • for auxillary contacts  - solid or strande  - finely stranded with core end processing  • for auxillary contacts  - solid or strande  - finely stranded with core end proc	— upwards	10 mm
type of electrical connection  • for main current circuit • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar  thickness of connection bar  diameter of holes  11 mm  number of holes  type of connectable conductor cross-sections • for AWG cables for main contacts • stranded  connectable conductor cross-section for auxiliary contacts • slid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded  - solid or stranded  - 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 main contacts  • solid or stranded  - finely stranded with core end processing • 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  - 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 auxiliary contacts  - solid or stranded  - finely stranded with core end processing • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing • for auxiliary contacts  - solid or stranded  - solid o	— 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 11 mm  number of holes 11 type of connectable conductor cross-sections • for AWG cables for main contacts • stranded  for enable conductor cross-section for main contacts • stranded  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts  - solid - solid or stranded - shiely stranded with core end processing • for AWG cables for auxiliary contacts  • solid or stranded - shiely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - shiely stranded with core end processing • for AWG cables for auxiliary contacts  • for auxiliary contacts - solid or stranded - shiely stranded with core end processing • for AWG cables for auxiliary contacts  • for auxiliary contacts - solid or stranded - shiely stranded with core end processing • for AWG cables for auxiliary contacts  • for auxiliary contacts - solid or stranded - shiely stranded with core end processing • for AWG cables for auxiliary contacts  - solid or stranded - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely stranded with core end processing • for auxiliary contacts  - shiely strande	— at the side	10 mm
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     of magnet coll     width of connection bar     thickness of connection bar     diameter of holes	Connections/ Terminals	
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     of magnet coll     width of connection bar     thickness of connection bar     diameter of holes	type of electrical connection	
at contactor for auxiliary contacts be of magnet coil  width of connection bar  thickness of connection bar  diameter of holes  11 mm  number of holes  12/0 500 kcmil  type of connectable conductor cross-sections be for AlWG cables for main contacts  solid or stranded be finely stranded with core end processing  be for auxiliary contacts  - solid or stranded - finely stranded with core end processing  for auxiliary contacts  - solid or stranded - finely stranded with core end processing  be for auxiliary contacts  - solid or stranded - finely stranded with core end processing - 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  - 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  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts - for auxil	for main current circuit	Connection bar
at contactor for auxiliary contacts builth of connection bar  diameter of holes  type of connectable conductor cross-sections brain of fire auxiliary contacts  solid or stranded brain or for auxiliary contacts  brown of or auxiliary contacts  - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts  - 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 - 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  AWG number as coded connectable conductor cross-section - 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  - for auxiliary contacts - fo		
of magnet coil     width of connection bar     thickness of connection bar     diameter of holes	•	**
width of connection bar  thickness of connection bar  diameter of holes number of holes 11 mm number of holes 1 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 of inely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing  of or AWG cables for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing  of or AWG cables for auxiliary contacts  - solid - for AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing of a for AWG cables for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing - for AWG auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing - for AWG auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing - for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing - solid - solid or stranded - finely stranded with core end processing - solid - solid or stranded - solid or stra	•	
thickness of connection bar diameter of holes 11 mm number of holes 12/0 500 kcmil  type of connectable conductor cross-sections • for AWG cables for main contacts • stranded connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - solid or s		•
diameter of holes  number of holes  type of connectable conductor cross-sections  of r AWG cables for main contacts  ostranded  connectable conductor cross-section for auxiliary contacts  ostranded  finely stranded with core end processing  of r auxiliary contacts  osolid or stranded  connectable conductor cross-sections  of r auxiliary contacts  - solid  - solid  - solid or stranded  - finely stranded with core end processing  of r auxiliary contacts  - solid  - solid or stranded  - finely stranded with core end processing  of r auxiliary contacts  - solid  - solid or stranded  - finely stranded with core end processing  of r AWG cables for auxiliary contacts  - for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  of r AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  of r AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  a solid or stranded  - finely stranded with core end processing  of r AWG cables for auxiliary contacts  - solid or stranded  - solid or		
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 with core end processing  • finely stranded with core end processing  • 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  • for AWG cables for auxiliary contacts  - for auxiliary contacts  - finely stranded with core end processing  • for AWG cables for auxiliary contacts  - fo		
type of connectable conductor cross-sections  • for AWG cables for main contacts  • stranded  70 240 mm²  connectable conductor cross-section for main contacts  • stranded  70 240 mm²  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  - solid or stranded  - solid or stranded  - solid or stranded (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)  - solid or stranded (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 (0,5 1,5 mm²), 2x (0,75 2,5 mm²)  - 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  No		
of r AWG cables for main contacts     connectable conductor cross-section for main contacts     otranded     connectable conductor cross-section for auxiliary contacts     osolid or stranded     ofinely stranded with core end processing     for auxiliary contacts     osolid or stranded     of auxiliary contacts     osolid or stranded     of auxiliary contacts     of auxiliary contacts     of auxiliary contacts     of auxiliary contacts      AWG number as coded connectable conductor cross section     of or auxiliary contacts     of or auxiliary contacts     auxiliar		
connectable conductor cross-section for main contacts  • stranded  70 240 mm²  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  — solid or stranded  — solid or stranded  — finely stranded with core end processing  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  — solid or stranded  — finely stranded with core end processing  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  No		2/0 500 kcmil
<ul> <li>stranded</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— solid or stranded</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded with core end processing</li> <li>— for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>— for auxiliary contacts</li> <li>Is 14</li> <li>Safety related data</li> <li>product function</li> <li>— mirror contact according to IEC 60947-4-1</li> <li>— positively driven operation according to IEC 60947-5-1</li> <li>No</li> </ul>		
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 - solid or stranded - 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  18 14  Safety related data  product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1  No		70 240 mm²
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for auxiliary contact</li></ul>		
• finely stranded with core end processing      type of connectable conductor cross-sections     • for auxiliary contacts     — solid     — solid	-	0.5 4 mm²
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  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  No		
<ul> <li>for auxiliary contacts  — solid  — solid or stranded  — solid or stranded  — finely stranded with core end processing  — for AWG cables for auxiliary contacts  — for auxiliary contacts  — for auxiliary contacts  — for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  — for AWG cables for auxiliary contacts  — for auxiliary contacts  — for auxiliary contacts  — for auxiliary contacts  — solid or stranded  — 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  — 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  — 2x (20 16), 2x (18 14), 1x 12  AWG number as coded connectable conductor cross section  — for auxiliary contacts  — solid or stranded  — 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  — 2x (20 16), 2x (18 14), 1x 12  AWG number as coded connectable conductor cross section  — for auxiliary contacts  — yes  — positively driven operation according to IEC 60947-5-1  No</li> </ul>		
- solid - solid - solid or stranded - solid or solid or stranded -		
- solid or stranded - finely stranded with core end processing  • for AWG cables for auxiliary contacts  • for auxiliary contacts  • 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)  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  No	•	2x (0.5
— finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  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  No		
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  No		
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  No		
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  No		24 \20 10 J, 24 \10 17 J, 14 12
Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  No	section	18 14
product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  No		10 14
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>No</li> </ul>		
• 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	service life maximum	20 a

with low demand rate according to SN 31920     with high demand rate according to SN 31920     7	Yes 40 %
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>7</li> </ul>	40 %
• with high demand rate according to SN 31920 7	40 %
5 5	
value with high demand rate according to SN 31920	73 %
<u> </u>	1 000 000
re rate [FIT] with low demand rate according to SN 120	100 FIT
13849	
ice type according to ISO 13849-1	3
rdimensioning according to ISO 13849-2 necessary	Yes
61508	
ety device type according to IEC 61508-2	Type A
strical Safety	
tection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
ch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
ovals Certificates	

General Product Approval









<u>KC</u>



EMV Functional Saftey Test Certificates Marine / Shipping



Type Examination Certificate

Special Test Certificate

Type Test Certificates/Test Report

**Miscellaneous** 



Marine / Shipping other









Miscellaneous

Confirmation

other Railway Environment

Confirmation

**Miscellaneous** 

Special Test Certificate



Siemens EcoTech



Environmental Confirmations

## Further information

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=3RT1065-6AP36

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1065-6AP36}$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AP36

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

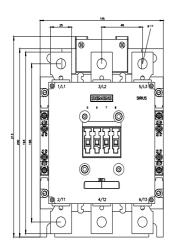
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1065-6AP36&lang=en

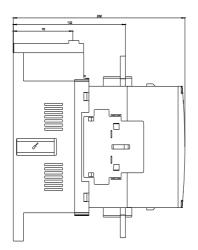
Characteristic: Tripping characteristics, I2t, Let-through current

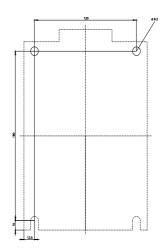
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AP36/char

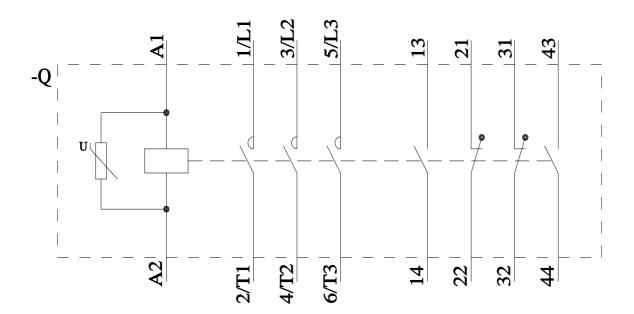
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AP36&objecttype=14&gridview=view1









last modified:

4/17/2025

