SIEMENS

Data sheet 3RT1056-6AP36

SIRIUS





power contactor, AC-3e/AC-3 185 A, 90 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	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	39 W
 at AC in hot operating state per pole 	13 W
 without load current share typical 	5.2 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	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
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1
Weight	3.34 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m

ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Environmental footprint	
Global Warming Potential [CO2 eq] total	379 kg
Global Warming Potential [CO2 eq] during manufacturing	17 kg
global warming potential [CO2 eq] during sales	0.901 kg
Global Warming Potential [CO2 eq] during operation	363 kg
Global Warming Potential [CO2 eq] after end of life	-2.28 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 	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	215 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	185 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	100 A
 up to 1000 V at ambient temperature 60 °C rated value 	100 A
• at AC-3	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
at AC-4 at 400 V rated value	160 A
at AC-5a up to 690 V rated value	189 A
at AC-5b up to 400 V rated value	153 A
at AC-6a We to 220 V for surrent pools value n=20 reted value.	457.0
— up to 230 V for current peak value n=20 rated value	157 A
— up to 400 V for current peak value n=20 rated value	157 A
— up to 500 V for current peak value n=20 rated value	157 A
— up to 690 V for current peak value n=20 rated value	157 A
 up to 1000 V for current peak value n=20 rated value 	65 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	105 A
— up to 400 V for current peak value n=30 rated value	105 A
— up to 500 V for current peak value n=30 rated value	105 A
— up to 690 V for current peak value n=30 rated value	105 A
 up to 1000 V for current peak value n=30 rated value 	65 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
minimum cross-section in main circuit at maximum AC-1 rated	
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at	

operational current	
• at 1 current path at DC-1	400.4
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 60 V rated value	7.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 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	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 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	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value	45 kW
 at 690 V rated value 	65 kW
at 690 V rated value operating apparent power at AC-6a	OS KVV

• up to 400 V for current peak value n=20 rated value	100 000 VA
 up to 500 V for current peak value n=20 rated value 	130 000 VA
 up to 690 V for current peak value n=20 rated value 	180 000 VA
 up to 1000 V for current peak value n=20 rated value 	110 000 VA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	40 000 VA
 up to 400 V for current peak value n=30 rated value 	70 000 VA
 up to 500 V for current peak value n=30 rated value 	90 000 VA
 up to 690 V for current peak value n=30 rated value 	120 000 VA
• up to 1000 V for current peak value n=30 rated value	110 000 VA
short-time withstand current in cold operating state up to	
40 °C	2 000 At Lies minimum areas section ago to AC 1 reted value
limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum	2 900 A; Use minimum cross-section acc. to AC-1 rated value 2 084 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum	
limited to 10 s switching at zero current maximum limited to 20 s switching at zero current maximum	1 480 A; Use minimum cross-section acc. to AC-1 rated value 968 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	801 A; Use minimum cross-section acc. to AC-1 rated value
	out A, use minimum cross-section acc. to AC-11 ated value
no-load switching frequency • at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	2 000 1/11
at AC-1 maximum	800 1/h
at AC-1 maximum at AC-2 maximum	300 1/h
at AC-2 maximum at AC-3 maximum	750 1/h
at AC-3 maximum at AC-3e maximum	750 1/h
at AC-3e maximum at AC-4 maximum	130 1/h
Control circuit/ Control	100 1/11
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	ACIDO
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	220 240 V
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	250 VA
— at 60 Hz	250 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	300 VA
— at 50 Hz	300 VA
apparent pick-up power of magnet coil at AC	200.14
• at 50 Hz	300 VA
• at 60 Hz	300 VA
inductive power factor with closing power of the coil	0.0
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power	42.1/A
at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC	4.3 VA
at maximum rated control supply voltage at DC	5.2 VA
apparent holding power	
at minimum rated control supply voltage at AC	40.7/4
— at 50 Hz	4.8 VA
— at 60 Hz at maximum rated control supply voltage at AC	4.8 VA

— at 50 Hz	5.8 VA
— at 60 Hz	5.8 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.8
● at 60 Hz	0.8
closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	
• at AC	40 60 ms
• at DC	40 60 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts 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	1 A
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	1A
at 600 V rated value	0.15 A
operational current at DC-13	0.10 A
• at 24 V rated value	10 A
at 48 V rated value	
	2 A 2 A
at 440 V rated value	
• 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	180 A
at 600 V rated value	192 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	30 hp
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 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	
— with type of coordination 1 required	gG: 355 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50
	, , , , , , , , , , , , , , , , , , , ,

• for short-circuit protection of the auxiliary switch required		kA)
International mounting dimensions With vertical mounting surface + 400" rotatable, with vertical mounting surface 400" rotatable, with vertical mounting 400 mm 400" rotatable, with vertical purposes 400 mm 400" rotatable, with vertical mounting 400 mm 400" rotatable, with vertical purposes 400 mm 400" rotatable, with vertical mounting 400 mm 400" rotatable, vertical purposes 400" r	- for about aircuit protection of the auxilian availab required	•
Mounting position		gG: 10 A (500 V, 1 kA)
1.00 1.00	Installation/ mounting/ dimensions	
Mesight	mounting position	
belght 172 mm with depth 120 mm required spacing 70 mm required spacing with side by-side mounting - with side by-side mounting 20 mm - phywards 10 mm - phywards 10 mm - all the side 00 mm - for grounded parts 10 mm - phywards 10 mm - phywards 10 mm - phywards 10 mm - downwards 10 mm - downwards 10 mm - for live parts 20 mm - for main current circuit Connection bar - for main current circuit Sorew-type terminals + for main current circuit Sorew-type terminals + for main current circuit Sorew-type terminals - for auxiliary contacts Srew-type terminals a contacting for auxiliary c	fastening method side-by-side mounting	Yes
width 120 mm depth 770 mm required spacing **** * with side-by-side mounting 20 mm — forwards 20 mm — opwards 10 mm — forwards 20 mm — forwards 20 mm — forwards 20 mm — at the side 10 mm — at the side 10 mm — at the side 10 mm — forwards 20 mm — forwards 10 mm — forwards 20 mm	fastening method	screw fixing
depth 170 mm required spacing with side-by-side mounting — Forwards 20 mm — Upwards 10 mm — Gownwards 10 mm — It he side 0 mm — Forwards 20 mm — Upwards 10 mm — Upwards 10 mm — Gownwards 20 mm — For live parts 10 mm — Lowards 20 mm — Upwards 10 mm — It he side 0 mm — Upwards 10 mm — Upwards 10 mm — It he side 20 mm — It he side 10 mm — It he side 1	height	172 mm
Property	width	120 mm
	depth	170 mm
	•	
- forwards		
- upwards - downwards - at the side of grounded parts		20 mm
downwards		
■ at the side	·	
• for grounded parts		
forwards		0 mm
- upwards	 for grounded parts 	
- at the side	— forwards	20 mm
Online O	— upwards	10 mm
• for live parts - forwards - upwards - downwards - downwards - downwards - at the side - downwards - at the side - downwards - downwards - downwards - at the side - downwards - downwards - at the side - downwards - for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - street-the side - downwards -	— at the side	10 mm
forwards upwards upwards downwards at the side	— downwards	10 mm
forwards upwards upwards downwards at the side	• for live parts	
— upwards	·	20 mm
- downwards — at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit contactor for auxiliary and control circuit score-type terminals • at contactor for auxiliary contacts screw-type terminals • at contactor for auxiliary contacts screw-type terminals • of magnet coil screw-type terminals • of magnet coil screw-type terminals • for main connection bar 17 mm thickness of connection bar 3 mm diameter of holes 9 mm number of holes 1 type of connectable conductor cross-sections • for AWG cables for main contacts 25 mm² • slranded 5 mm² • solid or stranded 5 mm² • for auxiliary contacts • solid or stranded 10 strand		
Connections / Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • of auxiliary contacts • of magnet coil width of connection bar thickness of connection bar diameter of holes • for AWG cables for main contacts • stranded connectable conductor cross-sections • for AWG cables for main contacts • stranded connectable conductor cross-section 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 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 AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG contacts - solid or stranded - finely stranded with core end processing • 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 - 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 pr	•	
type of electrical connection • for main current circuit • at contactor for auxiliary contacts • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connectable conductor cross-sections • for AWG cables for main contacts • solid or stranded • sinely stranded with core end processing • for auxiliary contacts • solid or stranded • sinely stranded with core end processing • for auxiliary contacts • solid or stranded • solid or stranded • sinely stranded with core end processing • for auxiliary contacts • solid or stranded • solid or stranded • sinely stranded with core end processing • for auxiliary contacts • solid or stranded		
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 of connectable conductor cross-sections • for AWG cables for main contacts • siranded connectable conductor cross-section for auxiliary contacts • siranded connectable conductor cross-sections • 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 nauxiliary 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 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 • for auxiliary co		10 mm
for main current circuit for auxiliary and control circuit strew-type terminals of magnet coil screw-type terminals of magnet coil screw-type terminals of magnet coil screw-type terminals indicates of connection bar thickness of connection bar thickness of connection bar thickness of connection bar thickness of connectable conductor cross-sections of raw Gables for main contacts of raw Gables for main contacts of raw Gables for main contacts ostranded connectable conductor cross-section for auxiliary contacts oslid or stranded of connectable conductor cross-sections of raw will any contacts oslid or stranded oslid or stra	Connections/ Terminals	
of or auxiliary and control circuit ot a contactor for auxiliary contacts of magnet coil width of connection bar thickness of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections of a AWG cables for main contacts stranded connectable conductor cross-section for main contacts stranded connectable conductor cross-section for auxiliary contacts solid or stranded inely stranded with core end processing of or auxiliary contacts	type of electrical connection	
• at contactor for auxiliary contacts • of magnet coil vidth of connection bar thickness of connection bar diameter of holes diameter of holes type of connectable conductor cross-sections • of AWG cables for main contacts • stranded connectable conductor cross-section for auxiliary contacts • stranded connectable conductor cross-section for auxiliary contacts • sidi or stranded • finely stranded with core end processing • for auxiliary contacts - 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 fawG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for fawG cables for auxiliary contacts - for fawG cables for auxiliary contacts - for fawG cables for auxiliary contacts - for auxiliary contacts - for fawG cables for auxiliary contacts - for fawG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for fawG cables for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - 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 - s	for main current circuit	Connection bar
• of magnet coil Screw-type terminals width of connection bar 17 mm thickness of connection bar 3 mm diameter of holes 9 mm number of holes 1 type of connectable conductor cross-sections 4 250 kcmil of a AWG cables for main contacts 4 250 kcmil connectable conductor cross-section for main contacts 5 stranded 25 120 mm² connectable conductor cross-section for auxillary contacts 5 solid or stranded 0.5 4 mm² 4 250 kcmil connectable conductor cross-section for auxillary contacts 5 solid or stranded 0.5 4 mm² 4 250 kcmil type of connectable conductor cross-sections 6 for auxillary contacts 2 x (0.5 1.5 mm²) 2 x (0.75 2.5 mm²) 4 mm² - solid or stranded 2 x (0.5 1.5 mm²), 2 x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 2 x (0.5 1.5 mm²), 2 x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 2 x (0.5 1.5 mm²), 2 x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 3 mm² - for auxiliary contacts 2 x (20 16), 2 x (18 14), 1 x 12 3 x (20 14 mm²)	 for auxiliary and control circuit 	screw-type terminals
width of connection bar 17 mm thickness of connectation bar 3 mm diameter of holes 9 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 finely stranded with core end processing for auxiliary contacts 0.5 4 mm² for auxiliary contacts 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) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or 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 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 1.5 mm²), 2x (0.75 2.5 mm²) - for auxiliary contacts 18 14 Safety related data product function Yes - positively driven operation according to IEC 60947-5-1<	 at contactor for auxiliary contacts 	Screw-type terminals
thickness of connection bar diameter of holes 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 • 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 AWG cables for auxiliary contacts • for auxiliary cont	of magnet coil	Screw-type terminals
diameter of holes number of holes 1 type of connectable conductor cross-sections of ra AWG cables for main contacts of rawliary contacts of rawliar	width of connection bar	17 mm
diameter of holes number of holes 1 type of connectable conductor cross-sections of ra AWG cables for main contacts of rawliary contacts of rawliar	thickness of connection bar	3 mm
type of connectable conductor cross-sections		
type of connectable conductor cross-sections		
• for AWG cables for main contacts 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 - 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 AWG cables 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 - 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 - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - sol		•
connectable conductor cross-section for main contacts		4 250 komil
stranded 25 120 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5 4 mm²		4 250 KCMIII
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 - 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 60947-5-1 • 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 Yes		
* 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 * — 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 AWG number as coded connectable conductor cross section * — for auxiliary contacts 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 function * — service life maximum * — Service life maximum * — Solid		25 120 mm²
• finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	connectable conductor cross-section for auxiliary contacts	
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 — 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 related switching OFF yes service life maximum 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 2x (20 16), 2x (18 14), 1x 12 18 14 Yes No Yes service life maximum 20 a test wear-related service life necessary Yes	solid or stranded	0.5 4 mm²
• for auxiliary contacts — solid — solid	 finely stranded with core end processing 	0.5 2.5 mm²
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) 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 service life maximum 20 a test wear-related service life necessary Yes	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing of for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section of rauxiliary contacts 18 14 Safety related data product function of mirror contact according to IEC 60947-4-1 of positively driven operation according to IEC 60947-5-1 of suitable for safety function suitability for use safety-related switching OFF suitable for safety related service life necessary 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12 4x (20	for auxiliary contacts	
- solid or stranded - finely stranded with core end processing of for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section of rauxiliary contacts 18 14 Safety related data product function of mirror contact according to IEC 60947-4-1 of positively driven operation according to IEC 60947-5-1 of suitable for safety function suitability for use safety-related switching OFF suitable for safety related service life necessary 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12 4x (20	— 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 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 suitablity for use safety-related switching OFF service life maximum 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12 Yes 18 14 Yes Yes 20 a test wear-related service life necessary Yes	— solid or stranded	
For AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section For auxiliary contacts Is 14 Safety related data product function For auxiliary contact according to IEC 60947-4-1 Fositively 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 Yes		
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 Yes		
section	·	21 (20 10); 21 (10 17); 11 12
for auxiliary contacts It is 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 service life maximum 20 a test wear-related service life necessary Yes		
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 service life maximum 20 a test wear-related service life necessary Yes		18 14
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 service life maximum 20 a test wear-related service life necessary Yes	·	
 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 service life maximum 20 a test wear-related service life necessary Yes 		
 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 Yes 	•	V
• 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	-	
suitability for use safety-related switching OFF service life maximum 20 a test wear-related service life necessary Yes		
service life maximum 20 a test wear-related service life necessary Yes	suitable for safety function	Yes
test wear-related service life necessary Yes	suitability for use safety-related switching OFF	Yes
·	service life maximum	20 a
proportion of dangerous failures	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	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
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
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Approvals Certificates	

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates





Type Examination Certificate

Special Test Certificate Type Test Certificates/Test Report

Miscellaneous

Marine / Shipping













Miscellaneous

other

other Railway Environment

Confirmation

Miscellaneous

Confirmation

Special Test Certificate



Siemens EcoTech



Environment

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=3RT1056-6AP36

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1056-6AP36}$

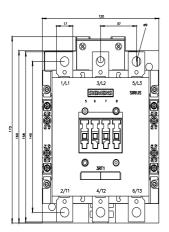
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6AP36

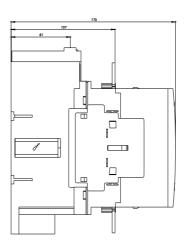
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6AP36

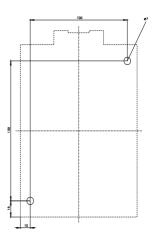
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

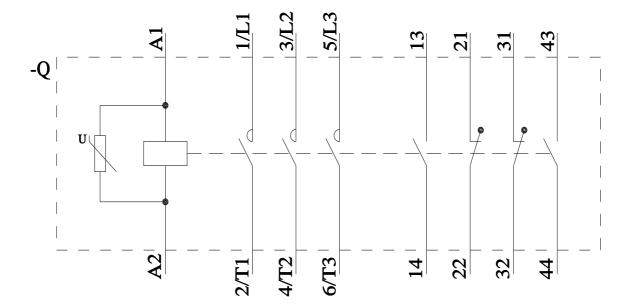
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-6AP36&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6AP36&objecttype=14&gridview=view1









last modified: 11/9/2024 🖸