# **SIEMENS**

Data sheet 3RT2036-3SB30



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 21-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, F-PLC-IN

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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>	12 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	4 W
<ul> <li>without load current share typical</li> </ul>	1.6 W
insulation voltage	
• of main circuit with degree of pollution 3 rated value	690 V
• of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	5 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
of the contactor with added auxiliary switch block typical	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/29/2021
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C

during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	70 A
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	70 A
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	E4 A
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A 41 A
<ul> <li>at AC-4 at 400 V rated value</li> <li>at AC-5a up to 690 V rated value</li> </ul>	61.6 A
<ul> <li>at AC-5a up to 690 V rated value</li> <li>at AC-5b up to 400 V rated value</li> </ul>	41.5 A
• at AC-6a	11.07
— up to 230 V for current peak value n=20 rated value	43.2 A
— up to 400 V for current peak value n=20 rated value	43.2 A
— up to 500 V for current peak value n=20 rated value	43.2 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	28.8 A
— up to 400 V for current peak value n=30 rated value	28.8 A
— up to 500 V for current peak value n=30 rated value	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	24 A
at 690 V rated value	20 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1.4
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1.4
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1  at 24 V reted value.	EE A
— at 24 V rated value	55 A

— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value	12.6 kW
at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
up to 400 V for current peak value n=20 rated value	29 900 VA
• up to 500 V for current peak value n=20 rated value	37 400 VA
• up to 690 V for current peak value n=20 rated value	28 600 VA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	11 400 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	19 900 VA
up to 500 V for current peak value n=30 rated value	24 900 VA
• up to 690 V for current peak value n=30 rated value	28 600 VA
short-time withstand current in cold operating state up to	
40 °C	007 A. Heaveninimum areas a - firm to A.O. 4 1
limited to 1 s switching at zero current maximum	937 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	697 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum     limited to 20 s switching at zero current maximum	468 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	282 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum  no load switching frequency.	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	1,000,1/b
• at AC	1 000 1/h
at DC  operating frequency	1 000 1/h
at AC-1 maximum	1 000 1/h
■ at MC-1 Haxiiliuiii	1 000 1/11

• at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
• at AC-3e maximum	800 1/h
• at AC-4 maximum	250 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	21 33 V
• at 60 Hz rated value	21 33 V
control supply voltage at DC	
rated value	21 33 V
operating range factor control supply voltage rated value of	
magnet coil at DC	
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
type of PLC-control input according to IEC 60947-1	Type 1
consumed current at PLC-control input according to IEC 60947-1 maximum	11 mA
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	2.2 A
duration of inrush current peak	100 μs
locked-rotor current mean value	1.6 A
locked-rotor current peak	2.6 A
duration of locked-rotor current	230 ms
holding current mean value	0.075 A
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power	
<ul> <li>at minimum rated control supply voltage at DC</li> </ul>	2 VA
at maximum rated control supply voltage at DC	2 VA
apparent holding power	
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	2 VA
— at 60 Hz	2 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	2 VA
— at 60 Hz	2 VA
apparent holding power of magnet coil at AC	
● at 50 Hz	2 VA
● at 60 Hz	2 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.95
● at 60 Hz	0.95
closing power of magnet coil at DC	40 W
holding power of magnet coil at DC	1.6 W
closing delay	
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
recovery time after power failure typical	2.1 s
arcing time	10 20 ms
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)

Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 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	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	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
<ul> <li>at 200/208 V rated value</li> </ul>	15 hp
at 200,200 Y lated raide	
— at 220/230 V rated value	15 hp
	·
— at 220/230 V rated value	15 hp
— at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL	15 hp 40 hp
— at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	15 hp 40 hp 50 hp
at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link	15 hp 40 hp 50 hp
— at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection	15 hp 40 hp 50 hp
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit - with type of coordination 1 required	15 hp 40 hp 50 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required	15 hp 40 hp 50 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit - with type of coordination 1 required  with type of assignment 2 required  for short-circuit protection of the auxiliary switch required	15 hp 40 hp 50 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  - with type of coordination 1 required  with type of assignment 2 required  for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit - with type of coordination 1 required  with type of assignment 2 required  for short-circuit protection of the auxiliary switch required	15 hp 40 hp 50 hp A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required  with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required  with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required  with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting  height	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required  - with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting  height  width  depth  required spacing • with side-by-side mounting - forwards	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	15 hp 40 hp 50 hp A600 / P600  gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm

— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
finely stranded with core end processing	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 1.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	- C <u>- C</u>
for auxiliary contacts	
— solid or stranded	2x (0.5 2.5 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 14)
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross	
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section	2x (20 14)
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts	2x (20 14) 18 1
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts     for auxiliary contacts	2x (20 14) 18 1
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts     for auxiliary contacts  Safety related data	2x (20 14) 18 1
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts     for auxiliary contacts  Safety related data  product function	2x (20 14)  18 1 20 14
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts     for auxiliary contacts  Safety related data  product function     mirror contact according to IEC 60947-4-1	2x (20 14)  18 1 20 14  Yes
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts     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	2x (20 14)  18 1 20 14  Yes No
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts     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  safety device type according to IEC 61508-2	2x (20 14)  18 1 20 14  Yes No Type B
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts     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 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF	2x (20 14)  18 1 20 14  Yes No Type B Yes
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts     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  safety device type according to IEC 61508-2  suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     for main contacts     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 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section         • for main contacts         • 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  safety device type according to IEC 61508-2 suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section         • for main contacts         • 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  safety device type according to IEC 61508-2  suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 C
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section         • for main contacts         • 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  safety device type according to IEC 61508-2 suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 2 C 2
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • 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  safety device type according to IEC 61508-2  suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  diagnostics test interval by internal test function maximum	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 C 2 0
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • 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 safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 C 2 0
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section         • for main contacts         • 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  safety device type according to IEC 61508-2 suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures         • with low demand rate according to SN 31920	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 0 2 0 28 800 s
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section         • for main contacts         • 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  safety device type according to IEC 61508-2 suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 C 2 0 28 800 s
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section         • for main contacts         • 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  safety device type according to IEC 61508-2 suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to EN 62061	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 2 0 0 28 800 s
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • 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  safety device type according to IEC 61508-2  suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  diagnostics test interval by internal test function maximum proportion of dangerous failures     • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  PFHD with high demand rate according to SN 31920  PFHD with high demand rate according to SN 31920	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 2 0 0 28 800 s  40 % 73 % 7.7E-8 1/h
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • 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  safety device type according to IEC 61508-2  suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  diagnostics test interval by internal test function maximum proportion of dangerous failures     • with low demand rate according to SN 31920  • with high demand rate according to EN 62061  failure rate [FIT] with low demand rate according to SN 31920  Safe failure fraction (SFF)	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 2 C 2 0 28 800 s  40 % 73 % 7.7E-8 1/h 100 FIT 96 %
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • 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  safety device type according to IEC 61508-2  suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  diagnostics test interval by internal test function maximum proportion of dangerous failures     • with low demand rate according to SN 31920  PFHD with high demand rate according to EN 62061  failure rate [FIT] with low demand rate according to SN 31920  Safe failure fraction (SFF)  PFDavg with low demand rate according to IEC 61508	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 2 C 2 0 28 800 s  40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • 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  safety device type according to IEC 61508-2 suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures     • with low demand rate according to SN 31920  PFHD with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920 Safe failure fraction (SFF) PFDavg with low demand rate according to IEC 61508 MTBF	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 2 c 2 0 28 800 s  40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067 52 a
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • 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  safety device type according to IEC 61508-2 suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures     • with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920 Safe failure fraction (SFF) PFDavg with low demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 2 C 2 0 28 800 s  40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067 52 a 0
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • 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  safety device type according to IEC 61508-2 suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 diagnostics test interval by internal test function maximum proportion of dangerous failures     • with low demand rate according to SN 31920  PFHD with high demand rate according to EN 62061 failure rate [FIT] with low demand rate according to SN 31920 Safe failure fraction (SFF) PFDavg with low demand rate according to IEC 61508 MTBF	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 2 c 2 0 28 800 s  40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067 52 a
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • 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  safety device type according to IEC 61508-2  suitability for use safety-related switching OFF  B10 value with high demand rate according to SN 31920  Safety Integrity Level (SIL) according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1  category according to EN ISO 13849-1  stop category according to EN 60204-1  diagnostics test interval by internal test function maximum proportion of dangerous failures     • with low demand rate according to SN 31920  • with high demand rate according to EN 62061  failure rate [FIT] with low demand rate according to SN 31920  Safe failure fraction (SFF)  PFDavg with low demand rate according to IEC 61508  MTBF  hardware fault tolerance according to IEC 61508  T1 value for proof test interval or service life according to IEC	2x (20 14)  18 1 20 14  Yes No Type B Yes 1 000 000 2 2 2 C 2 0 28 800 s  40 % 73 % 7.7E-8 1/h 100 FIT 96 % 0.0067 52 a 0

#### Certificates/ approvals

#### **General Product Approval**



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping



Type Examination Certificate





Type Test Certificates/Test Report



Marine / Shipping









Confirmation

other

Vibration and Shock

Railway

### Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

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

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2036-3SB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-3SB30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3SB30

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

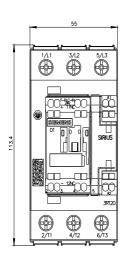
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2036-3SB30&lang=en

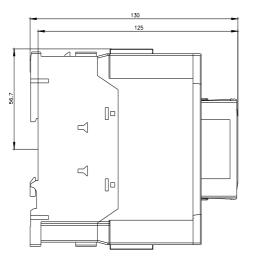
Characteristic: Tripping characteristics, I²t, Let-through current

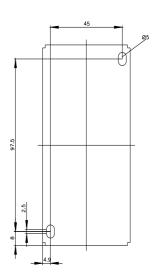
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3SB30/char

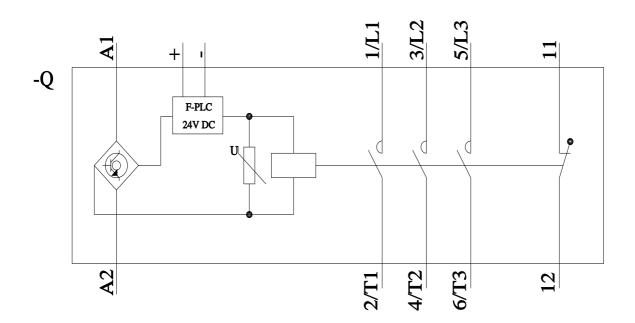
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-3SB30&objecttype=14&gridview=view1



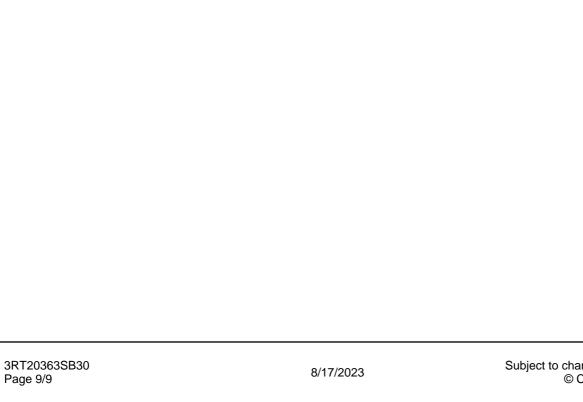






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