# **SIEMENS**

Data sheet 3RT2047-1NB30



power contactor, AC-3, 110 A 1 NO + 1 NC, 20-33 V AC/DC 3-pole, 3NO, size S3 screw terminal varistor integrated varistor

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	23.7 W
• per pole	7.9 W
power loss [W] for rated value of the current without load current share typical	3.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
• at DC	6.7 g / 5 ms, 4.0 g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.03.2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C

relative humidity minimum	10 %	
relative humidity at 55 °C acc. to IEC 60068-2-30	95 %	
maximum		
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	
operational current		
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	130 A	
• at AC-1		
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	130 A	
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	110 A	
• at AC-3	440.5	
— at 400 V rated value	110 A	
— at 500 V rated value	110 A	
— at 690 V rated value	98 A	
— at 1000 V rated value	30 A	
• at AC-4 at 400 V rated value	97 A	
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	120 A	
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	110 A	
• at AC-6a		
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	98 A	
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	98 A	
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	98 A	
— up to 690 V for current peak value n=20 rated value	98 A	
• at AC-6a		
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	65.3 A	
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	65.3 A	
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	65.3 A	
— up to 690 V for current peak value n=30 rated value	65.3 A	
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm <sup>2</sup>	
operational current for approx. 200000 operating cycles at AC-4		
at 400 V rated value	46 A	
at 690 V rated value	36 A	
operational current		
• at 1 current path at DC-1		
— at 24 V rated value	100 A	
	9 A	
— at 110 V rated value	9 A 2 A	
— at 220 V rated value	2 A 0.6 A	
— at 440 V rated value		
— at 600 V rated value	0.4 A	
with 2 current paths in series at DC-1     at 24 V reted value.	100 A	
— at 24 V rated value	100 A	
— at 110 V rated value	100 A	
— at 220 V rated value	10 A	
— at 440 V rated value	1.8 A	
— at 600 V rated value	1 A	
<ul><li>with 3 current paths in series at DC-1</li></ul>		
— at 24 V rated value	100 A	
— at 110 V rated value	100 A	

— at 220 V rated value	80 A
	4.5 A
— at 440 V rated value	2.6 A
— at 600 V rated value	2.0 A
• at 1 current path at DC-3 at DC-5	40.4
— at 24 V rated value	40 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 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	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 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	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	55 kW
• at AC-3	
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	90 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	24.3 kW
at 690 V rated value	32.9 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	39 kV·A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	67 kV·A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	84 kV·A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	117 kV·A
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	26 kV·A
• up to 400 V for current peak value n=30 rated value	45.2 kV·A
• up to 500 V for current peak value n=30 rated value	56.5 kV·A
up to 690 V for current peak value n=30 rated value	78 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 960 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 502 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	1 095 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	707 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	562 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	
• at AC-1 maximum	900 1/h
• at AC-2 maximum	350 1/h
• at AC-3 maximum	850 1/h
• at AC-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
At a company of the c	

control supply voltage at AC	22 224
at 50 Hz rated value	20 33 V
at 60 Hz rated value	20 33 V
control supply voltage at DC	
rated value	20 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
design of the surge suppressor	with varistor
inrush current peak	6.5 A
duration of inrush current peak	50 μs
locked-rotor current mean value	3.2 A
locked-rotor current peak	6.5 A
duration of locked-rotor current	150 ms
holding current mean value	75 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	151 V·A
● at 60 Hz	151 V·A
apparent holding power of magnet coil at AC	
● at 50 Hz	3.5 V·A
● at 60 Hz	3.5 V·A
closing power of magnet coil at DC	76 W
holding power of magnet coil at DC	2.7 W
closing delay	
• at AC	50 70 ms
• at DC	50 70 ms
opening delay	
• at AC	38 57 ms
• at DC	38 57 ms
arcing time	10 20 ms
arcing time control version of the switch operating mechanism	
arcing time control version of the switch operating mechanism Auxiliary circuit	10 20 ms Standard A1 - A2
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact	10 20 ms Standard A1 - A2
arcing time control version of the switch operating mechanism Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	10 20 ms Standard A1 - A2  1 1
arcing time control version of the switch operating mechanism Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	10 20 ms Standard A1 - A2
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	10 20 ms Standard A1 - A2  1  1  10 A
arcing time control version of the switch operating mechanism Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value	10 20 ms Standard A1 - A2  1  1  1  10 A
arcing time control version of the switch operating mechanism Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value	10 20 ms Standard A1 - A2  1  1  1  10 A
arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A 3 A 2 A
arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value	10 20 ms Standard A1 - A2  1  1  1  10 A
arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A
arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A
arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A
arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A
arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A
arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  • at 60 V rated value  • at 60 V rated value  • at 110 V rated value  • at 125 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A  2 A
arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  7 A  8 A  9 A  1 A
arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A  2 A
arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  6 A  7 A  8 A  9 A  1 A  1 A  1 A  1 A  1 A
arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 24 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A  2 A  1 A  10 A  10 A
arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 24 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A  2 A  1 A  10 A  6 A  1 A  10 A  10 A
arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value	10 20 ms Standard A1 - A2  1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 24 V rated value	10 20 ms Standard A1 - A2  1  1  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A  2 A  1 A  10 A  6 A  1 A  10 A  10 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	96 A
• at 600 V rated value	99 A
yielded mechanical performance [hp]	33 A
• for single-phase AC motor	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
• for 3-phase AC motor	
<ul> <li>at 200/208 V rated value</li> </ul>	30 hp
<ul> <li>at 220/230 V rated value</li> </ul>	40 hp
<ul> <li>at 460/480 V rated value</li> </ul>	75 hp
— at 575/600 V rated value	100 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
side-by-side mounting	Yes
height	140 mm
width	70 mm
depth	152 mm
required spacing  • with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	garayy type terminals
for main current circuit     for auxiliary and control circuit	screw-type terminals
for auxiliary and control circuit     at contactor for auxiliary contacts	screw-type terminals
<ul><li>at contactor for auxiliary contacts</li><li>of magnet coil</li></ul>	Screw-type terminals Screw-type terminals
type of connectable conductor cross-sections	Co.o. typo tominato
• for main contacts	
finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)
at AWG cables for main contacts	2x (10 1/0), 1x (10 2)

connectable conductor cross-section for main contacts		
• solid	2.5 16 mm²	
<ul><li>stranded</li></ul>	6 70 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	2.5 50 mm <sup>2</sup>	
connectable conductor cross-section for auxiliary contacts	0.5 2.5 mm²	
<ul> <li>solid or stranded</li> </ul>		
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>	
type of connectable conductor cross-sections		
<ul> <li>for auxiliary contacts</li> </ul>		
<ul><li>— solid or stranded</li></ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross section		
<ul> <li>for main contacts</li> </ul>	10 2	
<ul> <li>for auxiliary contacts</li> </ul>	20 14	
Safety related data		
B10 value with high demand rate acc. to SN 31920	1 000 000	
performance level (PL) acc. to EN ISO 13849-1	С	
category acc. to EN ISO 13849-1	2	
stop category acc. to DIN EN 60204-1	0	
proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	40 %	
with high demand rate acc. to SN 31920	73 %	
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT	
PFHD with high demand rate acc. to EN 62061	0.00000045 1/h	
PFDavg with low demand rate acc. to IEC 61508	0.007	
MTBF	75 y	
hardware fault tolerance acc. to IEC 61508	0	
T1 value for proof test interval or service life acc. to IEC 61508	20 y	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
suitability for use		
<ul> <li>safety-related switching on</li> </ul>	No	
Salety-related Switching on		

## Certificates/ approvals

### **General Product Approval**



Confirmation





<u>KC</u>



Functional
EMC Safety/Safety of Machinery Declaration of Conformity Test Certificates



Type Examination Certificate UK Declaration of Conformity



Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













other	Railway	Dangerous Good

Confirmation Vibration and Shock **Transport Informa**tion

#### Further information

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=3RT2047-1NB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-1NB30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1NB30

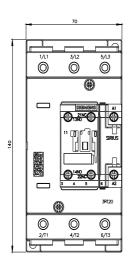
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

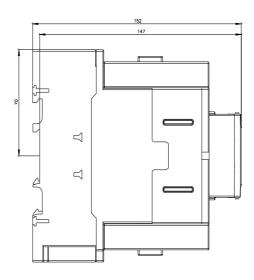
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2047-1NB30&lang=en

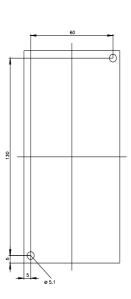
Characteristic: Tripping characteristics, I2t, Let-through current

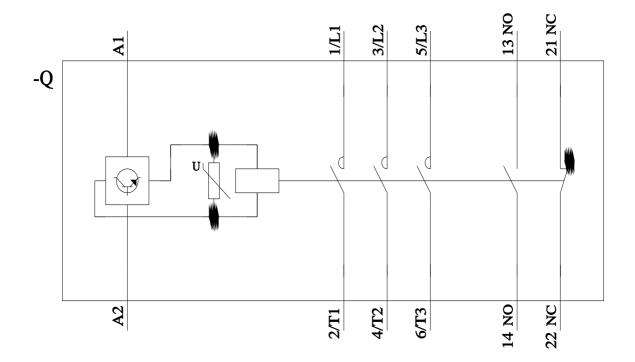
https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1NB30/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1NB30&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1NB30&objecttype=14&gridview=view1</a>









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