SIEMENS

Data sheet 3RT2036-1NB30



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	12 W
 at AC in hot operating state per pole 	4 W
without load current share typical	1 W
type of calculation of power loss depending on pole	quadratic
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	
 of main circuit rated value 	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 	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)	10/01/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	1.121 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C

e during storage	55 ±90 °C
during storage relative hymidity minimum	-55 +80 °C
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum	10 % 95 %
Environmental footprint	
	Voc
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	107 kg
Global Warming Potential [CO2 eq] during manufacturing	5.88 kg
Global Warming Potential [CO2 eq] during operation	102 kg
Global Warming Potential [CO2 eq] after end of life	-0.988 kg
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 	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	70 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	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	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	41 A
 at AC-5a up to 690 V rated value 	61.6 A
 at AC-5b up to 400 V rated value 	41.5 A
• at AC-6a	
— 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 mm ²
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	1A
— 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	0.2071
with 2 current paths in series at DC-1 — at 24 V rated value	55 A
— at 60 V rated value	45 A

1440.77	15 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— 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
 with 2 current paths in series at DC-3 at DC-5 	
— 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
 with 3 current paths in series at DC-3 at DC-5 	
— 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	30 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	12.6 kW
at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	17.2 kVA
up to 400 V for current peak value n=20 rated value	29.9 kVA
• up to 500 V for current peak value n=20 rated value	37.4 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	11.4 kVA
• up to 400 V for current peak value n=30 rated value	19.9 kVA
up to 500 V for current peak value n=30 rated value	24.9 kVA
up to 690 V for current peak value n=30 rated value	28.6 kVA
short-time withstand current in cold operating state up to 40 °C	
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 	697 A; Use minimum cross-section acc. to AC-1 rated value

• minet to to 3 is witching at zero current maximum • imited to 30 is witching at zero current maximum • imited to 80 is witching at zero current pack • imited to 80 is witching at zero current pack • imited to 80 is witching at zero current pack • imited to 80 is witching at zero current pack • imited to 80 is witching at zero current pack • imited to 90 is witching at zero current pack • imited to 10 is • imited to 10		400 A. U
- Intended to 80.s switching at zero current maximum	limited to 10 s switching at zero current maximum	468 A; Use minimum cross-section acc. to AC-1 rated value
Act AC	<u> </u>	
# alt AC		229 A; Use minimum cross-section acc. to AC-1 rated value
## AP CP operating frequency ## at AC-1 maximum ## AC-2 maximum ## AC-2 maximum ## AC-3 maximum ## AC-		4.500 4%
operating frequency * alt AC-1 maximum		
## AG-1 maximum		1 500 1/h
* al AC-3 maximum		
• at AC-4 maximum Control circuit Control Type of voltage of the control supply voltage • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value control supply voltage at DC rated value • at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • infall value • infall value • infall value • at 60 Hz • at maximum rated control supply voltage at AC • at 60 Hz • at maximum rated control supply voltage at AC • at 60 Hz • at maximum rated control supply voltage at AC • at 60 Hz		
Control Executive Control ACDC type of Vortage of the control supply voltage ACDC control supply voltage at AC 20 33 V * at 50 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 register of at DC 8 * fill-actio value 8 * fill-actio value 1.1 operating range factor control supply voltage rated value of register of a factor value of register of a factor control supply voltage rated value of register of a factor value of register of a factor value of a factor		
type of voltage of the control supply voltage at AC a. 65 0Hz racted value 20 33 V • at 60 Hz racted value 20 33 V control supply voltage at DC rated value 20 33 V opportating range factor control supply voltage rated value of magnet coil at CC 0.8 opinitial value 0.8 • Initial value 0.8 • at 60 Hz 0.8 1.1 • at 60 Hz 0.9 1.1 • at 60 Hz		250 1/h
Control supply voltage at AC		
± 16 0 Hz rated value		AC/DC
• at 80 Hz rated value Control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • (Lill-scale value) • (Lill-scale val	control supply voltage at AC	
Control supply voltage at DC rated value 20 33 V	at 50 Hz rated value	
operating range factor control supply voltage rated value of magnet coll at DC 0.8 • Initial value 0.8 • Initial value 1.1 • Initial value 1.1 • Initial value 0.8 • Initial value 0.9 • Initial value 0.9		
magnet coil at DC		20 33 V
• full-scale value oparating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz		
operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz	• initial value	0.8
magnet coil at AC 0.8 1.1 • at 50 Hz 0.8 1.1 design of the surge suppressor with varistor Inrush current peak 3.A duration of inrush current peak 50 µs locked-rotor current mean value 1.A locked-rotor current peak 2.6 A duration of locked-rotor current 230 ms holding current mean value 40 mA apparent plck-up power of magnet coil at AC 40 VA • at 50 Hz 40 VA • at 60 Hz 40 VA apparent holding power • at maximum rated control supply voltage at DC 2 VA • at maximum rated control supply voltage at AC 2 VA • at 50 Hz 2 VA • at minimum rated control supply voltage at AC 2 VA • at 50 Hz 2 VA • at 80 Hz 2 VA • at 50 Hz 2 VA • at 50 Hz 2 VA • at 60 Hz 2 VA • at 60 Hz 2 VA • at 60 Hz 0.95 • at 60 Hz 0.95 • at 60 Hz	full-scale value	1.1
e at 60 Hz design of the surge suppressor with varistor		
design of the surge suppressor with varistor Inrush current peak	• at 50 Hz	0.8 1.1
Inrush current peak	• at 60 Hz	0.8 1.1
Dicked-rotor current mean value	design of the surge suppressor	with varistor
locked-rotor current peak 2.6 A	inrush current peak	3 A
Iocked-rotor current peak 2.6 A	duration of inrush current peak	50 μs
Description of locked-rotor current 230 ms	locked-rotor current mean value	1 A
holding current mean value apparent pick-up power of magnet coil at AC at 150 Hz at 60 Hz 40 VA apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC at minimum rated control supply voltage at AC at minimum rated control supply voltage at AC at minimum rated control supply voltage at AC at 50 Hz at maximum rated control supply voltage at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 50 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz 0.95 at 60 Hz 1 UN closing power of magnet coil at DC closing power of magnet coil at DC closing delay at AC at AC at DC 30 55 ms at DC 40 VA	locked-rotor current peak	2.6 A
apparent pick-up power of magnet coil at AC at 150 Hz at 60 Hz apparent holding power at minimum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC at 50 Hz at maximum rated control supply voltage at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 60 Hz 2 VA at 60 Hz 2 VA at 60 Hz 2 VA at 60 Hz 1 VA at 60 Hz 2 VA at 60 Hz 2 VA at 60 Hz 1 VA at 60 Hz 1 VA closing power of magnet coil at DC bolding power of magnet coil at DC 23 W holding power of magnet coil at DC 23 W holding power of magnet coil at DC 35 110 ms opening delay at AC at DC 30 55 ms at DC at DC 30 55 ms	duration of locked-rotor current	230 ms
at 50 Hz at 60 Hz at minimum rated control supply voltage at DC at minimum rated control supply voltage at DC at minimum rated control supply voltage at DC at minimum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 50 Hz at 50 Hz bilding power of magnet coil at DC 1 W closing power of magnet coil at DC closing delay at AC at AC at DC 30 55 ms 30 55 ms	holding current mean value	40 mA
apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 1 VA at 60 Hz 2 VA cat 60 Hz but 10 Us at 60 Hz coloring power of magnet coil at DC at 50 Hz at 60 Hz but 10 Us closing power of magnet coil at DC at AC at DC at DC 35 110 ms at DC at DC 30 55 ms at DC at minimum rated control supply voltage at AC 2 VA 3 VA 4 The coloring power of magnet coil at DC 1 W closing delay at AC at DC 30 55 ms at DC 30 55 ms	apparent pick-up power of magnet coil at AC	
apparent holding power • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC apparent holding power • at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 2 VA apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 1 VA alt 60 Hz 2 VA alt 60 Hz 1 VA alt 60 Hz 2 VA blinductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 1 VA closing power of magnet coil at DC blolding power of magnet coil at DC 1 VV closing delay • at AC • at DC opening delay • at AC • at DC 30 55 ms • at DC	● at 50 Hz	40 VA
at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC at 50 Hz at maximum rated control supply voltage at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz bat 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz bat 60 Hz closing power of magnet coil at DC bolding power of magnet coil at DC closing delay at AC at Maximum rated control supply voltage at AC 2 VA 2 VA 2 VA 2 VA 2 VA 2 VA 3 S 110 ms 3 S 110 ms opening delay at AC at AC at AC at AC at DC 30 55 ms	• at 60 Hz	40 VA
apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 2 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 0.95 at 60 Hz 0.95 closing power of magnet coil at DC 1 W closing delay at AC at A	apparent holding power	
apparent holding power • at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 2 VA — at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz • at 60 Hz 1 vA • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 1 vA inductive power of magnet coil at DC 2 vA closing power of magnet coil at DC 2 vA 1 v closing delay • at AC • at DC 35 110 ms opening delay • at AC • at DC 30 55 ms	 at minimum rated control supply voltage at DC 	2 VA
• at minimum rated control supply voltage at AC	at maximum rated control supply voltage at DC	2 VA
- at 50 Hz 2 VA 2 VA 4 4 60 Hz 2 VA 4 6 at maximum rated control supply voltage at AC - at 50 Hz 2 VA 6 6 Hz 6	apparent holding power	
- at 60 Hz • at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz 2 VA apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 2 VA at 60 Hz 2 VA inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 1 0.95 • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC 23 W holding power of magnet coil at DC tolosing delay • at AC • at DC • at AC • at AC • at DC 35 110 ms opening delay • at AC • at DC • at DC 30 55 ms • at DC	 at minimum rated control supply voltage at AC 	
• at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC	— at 50 Hz	2 VA
- at 50 Hz - at 60 Hz 2 VA apparent holding power of magnet coil at AC	— at 60 Hz	2 VA
— at 60 Hz apparent holding power of magnet coil at AC	 at maximum rated control supply voltage at AC 	
apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 2 VA inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 0.95 • at 60 Hz Closing power of magnet coil at DC 23 W holding power of magnet coil at DC 1 W closing delay • at AC • at DC 35 110 ms opening delay • at AC • at DC 30 55 ms • at DC	— at 50 Hz	2 VA
● at 50 Hz ● at 60 Hz Inductive power factor with the holding power of the coil ● at 50 Hz ● at 60 Hz ● at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC tolosing delay ● at AC ● at DC opening delay ● at AC ● at DC at AC ● at DC opening delay ● at AC ● at DC	— at 60 Hz	2 VA
	apparent holding power of magnet coil at AC	
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC 1 W closing delay • at AC • at DC at AC • at DC at AC • at DC 35 110 ms opening delay • at AC • at DC 30 55 ms • at DC	● at 50 Hz	2 VA
• at 50 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC 23 W holding power of magnet coil at DC 1 W closing delay • at AC • at DC 35 110 ms opening delay • at AC 30 55 ms • at DC	● at 60 Hz	2 VA
● at 60 Hz closing power of magnet coil at DC 23 W holding power of magnet coil at DC 1 W closing delay ● at AC ● at DC at AC ● at BC 30 55 ms ● at DC	inductive power factor with the holding power of the coil	
closing power of magnet coil at DC 23 W holding power of magnet coil at DC 1 W closing delay 35 110 ms • at DC 35 110 ms opening delay 0 at AC • at DC 30 55 ms • at DC 30 55 ms	● at 50 Hz	0.95
holding power of magnet coil at DC 1 W closing delay 35 110 ms ● at DC 35 110 ms opening delay 30 55 ms ● at DC 30 55 ms	● at 60 Hz	0.95
closing delay • at AC 35 110 ms • at DC 35 110 ms opening delay • at AC 30 55 ms • at DC 30 55 ms		
 at AC at DC 35 110 ms opening delay at AC at DC 30 55 ms at DC 30 55 ms 		1 W
● at DC 35 110 ms opening delay ● at AC 30 55 ms ● at DC 30 55 ms	closing delay	
opening delay ● at AC 30 55 ms ● at DC 30 55 ms	• at AC	
 at AC at DC 30 55 ms 30 55 ms 		35 110 ms
• at DC 30 55 ms	opening delay	
	• at AC	30 55 ms
arcing time 10 20 ms	• at DC	30 55 ms
	arcing time	10 20 ms

control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	'
number of NO contacts for auxiliary contacts instantaneous contact	1
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 175 V rated value at 125 V rated value	2 A
at 220 V rated value at 220 V rated value	1 A
	0.15 A
at 600 V rated value	U.10 A
operational current at DC-13	10 A
• 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]	
 for single-phase AC motor 	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	J
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
- Jr	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	114 mm
width	55 mm
depth	130 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm

— at the side	0 mm
 for grounded parts 	
— 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
for auxiliary and control circuit	screw-type terminals
•	
at contactor for auxiliary contacts of record soil	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	0: (4 05 :::::2) 4: (4 50 2)
— 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)
for AWG cables for main contacts	2x (18 2), 1x (18 1)
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 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 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)
AWG number as coded connectable conductor cross section	
• for main contacts	18 1
• for auxiliary contacts	20 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
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with how demand rate according to SN 31920 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
31920 ISO 13849	100111
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	100
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
General Product Approval	







Confirmation



Miscellaneous

General Product Approval

EMV

Functional Saftey

Test Certificates

<u>KC</u>





Type Examination Cer**tificate**

Type Test Certificates/Test Report

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

Marine / Shipping













other

Railway

Dangerous goods

Environment

Confirmation

Confirmation

Special Test Certificate

Transport Information



Environmental Con-firmations

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=3RT2036-1NB30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2036-1NB30}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NB30

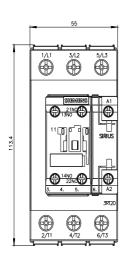
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

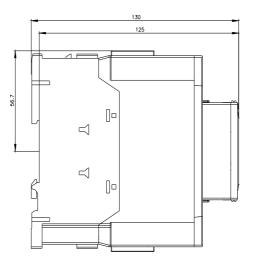
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1NB30&lang=en

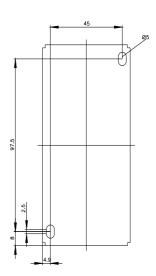
Characteristic: Tripping characteristics, I2t, Let-through current

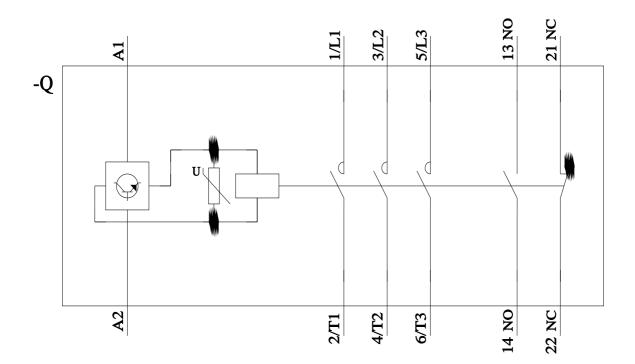
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NB30/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1NB30&objecttype=14&gridview=view1









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