## SIEMENS

## Data sheet

## 3RT2045-1AK60



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3  $\,$ 

4/1	
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
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	15.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	5.3 W
<ul> <li>without load current share typical</li> </ul>	22 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	10.3g / 5 ms, 6,.g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
mechanical service life (operating 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Weight	1.725 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Yes
405 kg
7.66 kg
399 kg
-1.19 kg
3
3
1 000 V
1 000 V
125 A
125 A
105 A
80 A
80 A
58 A
30 A
80 A
80 A
58 A
30 A
66 A
110 A
80 A
80 A
80 A
80 A
58 A
54 A
54 A
54 A
54 A
50 mm <sup>2</sup>
34 A
24 A
400.4
100 A
60 A
9 A 2 A
2 A 0.6 A
0.6 A 0.4 A
100 A
100 A
100 A
10 A
S         1         1         1         8         8         8         8         8         5         5         5         2         1         6         9         2         0         1

— at 440 V rated value	1.8 A
— at 600 V rated value	1.6 A
with 3 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 60 V rated value	6 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 60 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 60 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	
• at AC-2 at 400 V rated value	37 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value — at 690 V rated value	45 kW
	55 kW
- at 1000 V rated value operating power for approx. 200000 operating cycles at AC-	37 kW
4	
• at 400 V rated value	17.9 kW
• at 690 V rated value	21.8 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	31 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	55 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	69 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	69 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	21.5 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	37.4 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	46.7 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	64.5 kVA
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>	1 500 A; Use minimum cross-section acc. to AC-1 rated value

<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 186 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	851 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	538 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	423 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	900 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
● at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
• at 60 Hz rated value	120 V
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
apparent pick-up power of magnet coil at AC	
• at 50 Hz	326 VA
• at 60 Hz	326 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.62
• at 60 Hz	0.55
apparent holding power of magnet coil at AC	
• at 50 Hz	22 VA
• at 60 Hz	22 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.4
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 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 contact	1
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	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	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
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	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	
<ul> <li>at 480 V rated value</li> </ul>	77 A
• at 600 V rated value	62 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	25 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	60 hp
— at 575/600 V rated value	60 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA
of the auxiliary circuit up to 230 V	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— 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)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (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
fortania a mathematical side has side an annatica	backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	140 mm
width	70 mm 152 mm
deptn	152 11111
<ul> <li>required spacing</li> <li>with side-by-side mounting</li> </ul>	
	20 mm
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	20 mm
— 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	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
● of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	

2x (10 1/0), 1x (10 2)           r main contacts           2.5 16 mm <sup>2</sup> 6 70 mm <sup>2</sup> sing         2.5 50 mm <sup>2</sup> r auxiliary contacts         0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> ctions         2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )           ccessing         2x (20 16), 2x (18 14)           ductor cross         10 2           10 2         20 14           7-4-1         Yes           rFF         Yes           FF         20 a           Yes         100 000           xing to SN 31920         100 000           xcording to SN         100 FIT           scarsary         Yes           19-2 necessary         Yes           19-2 necessary         Yes           19-2 necessary         Yes		
r main contacts         2.5 16 mm <sup>2</sup> sing         2.5 50 mm <sup>2</sup> sing         2.5 50 mm <sup>2</sup> r a uxiliary contacts         0.5 2.5 mm <sup>2</sup> observed         0.5 2.5 mm <sup>2</sup> ctions         2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )           ccessing         2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )           ccessing         2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )           ccessing         2x (20 16), 2x (18 14)           ductor cross         10 2           10 2         20 14           Yes           FF         Yes           FF         Yes           Yes         Yes           N 31920         40 %           SN 31920         1000 000           ccording to SN         100 FIT           Bez           19-2 necessary         Yes           19-2 necessary         Yes           IP20	<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)
2.5 16 mm²         6 70 mm²         2.5 50 mm²         auxiliary contacts         0.5 2.5 mm²         sing         0.5 2.5 mm²         ctions         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (2.0 1.5 mm²), 2x (0.75 2.5 mm²)         2x (2.0 16), 2x (18 14)         ductor cross         10 2         20 14    7.4-1 Yes          7.4-1 Yes         to IEC 60947-5-1 No         Yes    FF Yes          20 a         Yes    N 31920 73 %          100 000         ccording to SN         100 FIT    88-2          3         49-2 necessary    100 EIC 60529	<ul> <li>for AWG cables for main contacts</li> </ul>	2x (10 1/0), 1x (10 2)
6 70 mm²           sing         2.5 50 mm²           r auxiliary contacts         0.5 2.5 mm²           sing         0.5 2.5 mm²           ctions         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)           ccessing         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)           2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (0.5 1.6 mm²), 2x (0.75 2.5 mm²)           ductor cross         2x (0.5 1.6 mm²), 2x (0.75 2.5 mm²)           2x (20 16), 2x (18 14)         10 2           ductor cross         10 2           7.4-1         Yes           7.4-1         Yes           FF         Yes           FF         Yes           Sing 10 EC 60947-5-1         No           Yes         Yes           FF         Yes           Ing to SN 31920         1000 000           X31920         1000 000           xcording to SN         100 FIT           Sing 10 EC 60529         Type A	connectable conductor cross-section for main contacts	
sing       2.5 50 mm²         r auxiliary contacts       0.5 2.5 mm²         sing       0.5 2.5 mm²         ctions       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         occessing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         occessing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         occessing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         occessing       2x (20 16), 2x (18 14)         ductor cross       10 2         20 14       20 14         7.4-1       Yes         7.4-1       Yes         FF       Yes         SiN 31920       73 %         ing to SN 31920       1 000 000         ccording to SN       100 FIT         Image: Sing to SN       3         IS-2 necessary       Yes         IS-2       Type A         IS-2       IP20	• solid	2.5 16 mm <sup>2</sup>
auxiliary contacts       0.5 2.5 mm²         sing       0.5 2.5 mm²         ctions       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         occessing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         occessing       2x (20 16), 2x (18 14)         ductor cross       10 2         10 2       20 14         7-4-1       Yes         FF       Yes         FF       20 a         Yes       Yes         N 31920       40 %         N 31920       40 %         SN 31920       1000 000         ccording to SN       100 FIT         Sing to SN 31920       1000 FIT         9 to IEC 60529       IP20	stranded	6 70 mm²
0.5 2.5 mm²         sing       0.5 2.5 mm²         ctions       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         occessing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (0.2 16), 2x (18 14)       2x (20 16), 2x (18 14)         ductor cross       10 2         20 14       20 14         FF       Yes         FF       Yes         Yes       Yes         N 31920       40 %         Yes       10 00 000         ing to SN 31920       1 000 000         ing to SN 31920       1 000 000         yes       3         I8-2       Type A         g to IEC 60529       IP20	<ul> <li>finely stranded with core end processing</li> </ul>	2.5 50 mm <sup>2</sup>
sing       0.52.5 mm²         ctions       2x (0.51.5 mm²), 2x (0.752.5 mm²)         occessing       2x (0.51.5 mm²), 2x (0.752.5 mm²)         2x (2016), 2x (1814)       2x (2016), 2x (1814)         ductor cross       102         2014       2014         7-4-1       Yes         res       20 a         Yes       3         N 31920       1000 000         ing to SN 31920       1000 FIT         Scording to SN       100 FIT         Be2       Type A         Was       Type A	connectable conductor cross-section for auxiliary contacts	
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         ductor cross         10 2         20 14         7-4-1         Yes         FF         Yes         20 a         Yes         Yes         N 31920         40 %         SN 31920         10 0000         xcording to SN         100 FIT         8-2         Type A         100 IEC 60529         IP20	<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         ductor cross         10 2         20 14         7.4.1         Yes         7.4.1         Yes         FF         Yes         20 a         Yes         N 31920         Yob N 31920         1000 000         100 FIT         8-2         Type A         1020         1020         1002         1002         1002         1002         1003         1004         1005         1006         1007         1008         1009         100000         100000         100000         100000         100000         100000         100000         100000         100000         100000         100000         1000000         1000000         1000000         10000000	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
accessing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         ductor cross         10 2         20 14         7.4.1         Yes         FF         20 a         Yes         Ves         Ves         Ves         N 31920         40 %         SN 31920         100 FIT         3         19-2 necessary         Yes         88-2         Type A         IP20	type of connectable conductor cross-sections	
accessing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         ductor cross         10 2         20 14         7.4.1         Yes         FF         20 a         Yes         Ves         Ves         Ves         N 31920         40 %         SN 31920         100 FIT         3         19-2 necessary         Yes         88-2         Type A         IP20	<ul> <li>for auxiliary contacts</li> </ul>	
accessing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         ductor cross         10 2         20 14         7.4.1         Yes         FF         20 a         Yes         Ves         Ves         Ves         N 31920         40 %         SN 31920         100 FIT         3         19-2 necessary         Yes         88-2         Type A         IP20	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
3.       2x (20 16), 2x (18 14)         ductor cross       10 2         20 14       20 14         7.4-1       Yes         To IEC 60947-5-1       No         Yes       Yes         FF       Yes         20 a       Yes         N 31920       40 %         Yes       Yes         N 31920       73 %         ing to SN 31920       1 000 000         xcording to SN       100 FIT         8-2       Type A         18-2       Type A	<ul> <li>finely stranded with core end processing</li> </ul>	
ductor cross       10 2 20 14         7-4-1       Yes         7-4-1       Yes         to IEC 60947-5-1       No Yes         FF       Yes         20 a       20 a         Yes       20 a         Yes       Yes         N 31920       40 %         SN 31920       73 %         ing to SN 31920       1 000 000         ccording to SN       100 FIT         8-2       Type A         g to IEC 60529       IP20	<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	
10 2       20 14         7-4-1       Yes         to IEC 60947-5-1       No         Yes       Yes         FF       Yes         20 a       Yes         N 31920       40 %         SN 31920       73 %         ing to SN 31920       1 000 000         scording to SN       100 FIT         8-2       Type A         g to IEC 60529       IP20	AWG number as coded connectable conductor cross	
2014 7.4.1 Yes to IEC 60947-5-1 No Yes FF Yes 20 a Yes N 31920 40 % N 31920 73 % ing to SN 31920 1000 000 coording to SN 100 FIT 3 R9-2 necessary Yes 73 %	section	
7-4-1       Yes         to IEC 60947-5-1       No         Yes       Yes         FF       Yes         20 a       Yes         Yes       Yes         Yes <td><ul> <li>for main contacts</li> </ul></td> <td>10 2</td>	<ul> <li>for main contacts</li> </ul>	10 2
to IEC 60947-5-1       No         Yes       20 a         20 a       20 a         Yes       20 a	<ul> <li>for auxiliary contacts</li> </ul>	20 14
to IEC 60947-5-1       No         Yes       20 a         20 a       20 a         Yes       20 a	Safety related data	
to IEC 60947-5-1       No         Yes       20 a         20 a       20 a         Yes       20 a	product function	
to IEC 60947-5-1 No Yes IFF Yes 20 a Yes	<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
Yes         IFF       Yes         20 a         Yes         Yes         N 31920       40 %         SN 31920       73 %         ing to SN 31920       1 000 000         ccording to SN       100 FIT         100 FIT       3         18-2 necessary       Yes         yes       1         1920       1         1920       1         1920       100 FIT         100 FIT       100 FIT         1920       1         1920       1         1920       1         1920       1         1920       1         1920       1         1920       1         1920       1         1920       1         1920       1         1920       1         1920       1	<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
20 a Yes N 31920 40 % SN 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 3 19-2 necessary Yes Ves Ves	suitable for safety function	Yes
20 a Yes N 31920 40 % SN 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 3 19-2 necessary Yes Ves Ves	suitability for use safety-related switching OFF	
Yes 40 % 5N 31920 73 % ing to SN 31920 1 000 000 ccording to SN 100 FIT 3 100 FIT 3 19-2 necessary Yes 8-2 Type A 1920 IP20 IP20	service life maximum	
N 31920       40 %         SN 31920       73 %         ing to SN 31920       1 000 000         cording to SN       100 FIT         3       100 FIT         19-2 necessary       Yes         08-2       Type A         100 FIC 60529       IP20	test wear-related service life necessary	
SN 31920       73 %         ing to SN 31920       1 000 000         ccording to SN       100 FIT         3	proportion of dangerous failures	
SN 31920       73 %         ing to SN 31920       1 000 000         ccording to SN       100 FIT         3		40.9/
ing to SN 31920       1 000 000         scording to SN       100 FIT         3       3         I9-2 necessary       Yes         V8-2       Type A         IP20       IP20	with low demand rate according to SN 31920	
100 FIT         3         19-2 necessary         Yes         08-2         Type A         100 FIT	with high demand rate according to SN 31920	
3 19-2 necessary Yes 18-2 Type A 19 to IEC 60529 IP20	B10 value with high demand rate according to SN 31920	
I9-2 necessary         Yes           08-2         Type A           g to IEC 60529         IP20	failure rate [FIT] with low demand rate according to SN 31920	100 FT
I9-2 necessary         Yes           08-2         Type A           g to IEC 60529         IP20	ISO 13849	
I9-2 necessary         Yes           08-2         Type A           g to IEC 60529         IP20	device type according to ISO 13849-1	3
<b>B-2</b> Type A g to IEC 60529 IP20	overdimensioning according to ISO 13849-2 necessary	
g to IEC 60529 IP20		
g to IEC 60529 IP20		Type A
		Type A
to IEC 60529 Inger-sale, for vertical contact from the front		
		tinger-safe, for vertical contact from the front
	General Product Approval	
	safety device type according to IEC 61508-2 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval	IP20 finger-safe, for vertical contact from the front
	General Product Approval EMV Test Certifica	tes Marine / Shipping
Test Certificates Marine / Shipping	ERE REAL	



Dangerous goods Environment

Transport Information

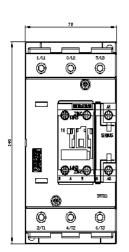


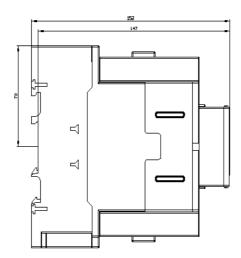
Environmental Confirmations

## Further information

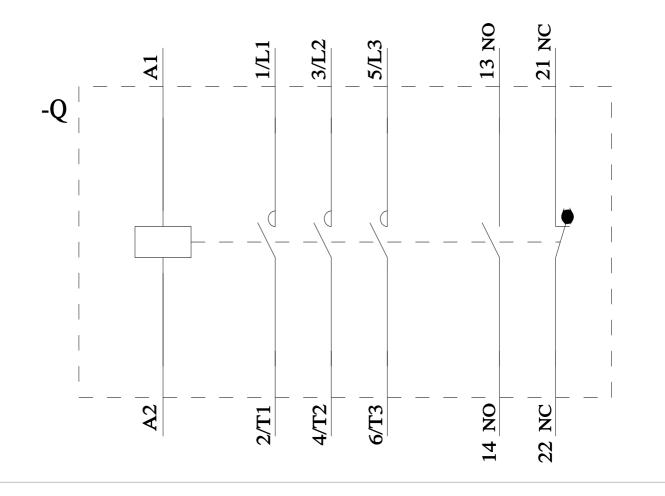
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2045-1AK60 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1AK60 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1AK60 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2045-1AK60&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1AK60/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-1AK60&objecttype=14&gridview=view1









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