SIEMENS

Data sheet 3RT2026-1AB04



power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC, 24 V AC, 50 Hz, 3-pole, Size S0 screw terminal Removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current at AC in hot operating state	4.8 W
• per pole	1.6 W
power loss [W] for rated value of the current without load current share typical	9.8 W
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature during operation	-25 +60 °C
ambient temperature during storage	-55 +80 °C
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

operational current	
at AC-1 at 400 V at ambient temperature 40 °C reted value.	40 A
rated value ■ at AC-1	
— up to 690 V at ambient temperature 40 °C	40 A
rated value	40 A
— up to 690 V at ambient temperature 60 °C	35 A
rated value	
• at AC-3	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
 at AC-4 at 400 V rated value 	15.5 A
 at AC-5a up to 690 V rated value 	35.2 A
 at AC-5b up to 400 V rated value 	20.7 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	20.2 A
— up to 400 V for current peak value n=20 rated value	20.2 A
— up to 500 V for current peak value n=20 rated value	20.2 A
— up to 690 V for current peak value n=20 rated value	12.9 A
 at AC-6a up to 230 V for current peak value n=30 rated 	13.5 A
value	13.5 A
— up to 400 V for current peak value n=30 rated value	13.5 A
— up to 500 V for current peak value n=30 rated value	13.5 A
— up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1	13 A 10 mm ²
rated value	10 111111-
operational current for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	9 A
at 690 V rated value	9 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value — at 600 V rated value	0.4 A 0.25 A
	0.25 A
with 2 current paths in series at DC-1 at 24 V reted value.	25 A
— at 24 V rated value	35 A 35 A
— at 110 V rated value — at 220 V rated value	5 A
	1 A
— at 440 V rated value — at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	0.071
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
operational current	
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A

— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 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	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 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	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	4.4 kW
• at 690 V rated value	7.7 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	8 kV·A
 up to 400 V for current peak value n=20 rated value 	13.9 kV·A
 up to 500 V for current peak value n=20 rated value 	17.4 kV·A
 up to 690 V for current peak value n=20 rated value 	15.4 kV·A
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	5.3 kV·A
 up to 400 V for current peak value n=30 rated value 	9.3 kV·A
• up to 500 V for current peak value n=30 rated value	11.6 kV·A
• up to 690 V for current peak value n=30 rated value	15.5 kV·A
short-time withstand current in cold operating state	
up to 40 °C	075 A 11
limited to 1 s switching at zero current maximum	375 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	299 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	200 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	128 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	106 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	5 000 A/L
• at AC	5 000 1/h
• at DC	1 500 1/h
operating frequency	1 000 1/b
at AC 2 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
at AC-3 maximumat AC-4 maximum	750 1/h
at AC-4 maximum Control circuit/ Control	250 1/h
	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC • at 50 Hz rated value	24 V
operating range factor control supply voltage rated	24 V
value of magnet coil at AC	0.0 1.1
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	

50 11-	77 \/ A
• at 50 Hz	77 V·A
inductive power factor with closing power of the coil	0.00
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	22/4
• at 50 Hz	9.8 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
closing delay	0.25
• at AC	8 40 ms
opening delay	0 40 mo
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	-
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
 at 400 V rated value 	3 A
 at 500 V rated value 	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	6 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	21 A
at 600 V rated value	22 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	

	G: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415
	80 kA)
80	G: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 0kA)
 for short-circuit protection of the auxiliary switch required 	G: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
	-180° rotation possible on vertical mounting surface; can be tilted rward and backward by +/- 22.5° on vertical mounting surface
fastening method sci	crew and snap-on mounting onto 35 mm standard mounting rail
• side-by-side mounting Ye	ŭ
	5 mm
	5 mm
	11 mm
required spacing	
with side-by-side mounting	
) mm
) mm
10 11 11) mm
	mm
at the side for grounded parts	
)
) mm
1P 1 1 1 1) mm
	mm
) mm
• for live parts	
) mm
•) mm
) mm
1111111	mm
Connections/ Terminals	
type of electrical connection	
type of electrical connection • for main current circuit sci	crew-type terminals
type of electrical connection • for main current circuit scr • for auxiliary and control circuit scr	crew-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts Sci	crew-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	crew-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections	crew-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts	crew-type terminals crew-type terminals crew-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid 2x	crew-type terminals crew-type terminals crew-type terminals crew-type terminals crew-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded	crew-type terminals crew-t
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing	crew-type terminals crew-type terminals crew-type terminals crew-type terminals crew-type terminals (1 2.5 mm²), 2x (2.5 10 mm²) (1 2,5 mm²), 2x (2,5 10 mm²) (1 2,5 mm²), 2x (2,5 6 mm²), 1x 10 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2x 2x	crew-type terminals crew-t
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main	crew-type terminals crew-type terminals crew-type terminals crew-type terminals crew-type terminals (1 2.5 mm²), 2x (2.5 10 mm²) (1 2,5 mm²), 2x (2,5 10 mm²) (1 2,5 mm²), 2x (2,5 6 mm²), 1x 10 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts	crew-type terminals crew-t
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid 1.	crew-type terminals crew-t
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded 1.	crew-type terminals crew-type terminals crew-type terminals (1 2.5 mm²), 2x (2.5 10 mm²) (1 2,5 mm²), 2x (2,5 10 mm²) (1 2,5 mm²), 2x (2,5 10 mm²) (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² (16 12), 2x (14 8) 10 mm² 10 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing ontacts • solid • stranded • finely stranded with core end processing 1. connectable conductor cross-section for auxiliary	crew-type terminals crew-t
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing 1. connectable conductor cross-section for auxiliary contacts	crew-type terminals crew-type terminals crew-type terminals (1 2.5 mm²), 2x (2.5 10 mm²) (1 2,5 mm²), 2x (2,5 10 mm²) (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² (1 2.5 mm²), 2x (14 8) 10 mm² 10 mm² 10 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2x connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing 1. connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 1.	crew-type terminals crew-type terminals crew-type terminals (1 2.5 mm²), 2x (2.5 10 mm²) (1 2,5 mm²), 2x (2,5 10 mm²) (1 2,5 mm²), 2x (2,5 6 mm²), 1x 10 mm² (16 12), 2x (14 8) 10 mm² 10 mm² 10 mm² 10 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing 1. connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5	crew-type terminals crew-type terminals crew-type terminals (1 2.5 mm²), 2x (2.5 10 mm²) (1 2,5 mm²), 2x (2,5 10 mm²) (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² (1 2.5 mm²), 2x (14 8) 10 mm² 10 mm² 10 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing 1. connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	crew-type terminals crew-type terminals crew-type terminals (1 2.5 mm²), 2x (2.5 10 mm²) (1 2,5 mm²), 2x (2,5 10 mm²) (1 2,5 mm²), 2x (2,5 6 mm²), 1x 10 mm² (16 12), 2x (14 8) 10 mm² 10 mm² 10 mm² 10 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2x connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing 1. connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	crew-type terminals crew-type terminals crew-type terminals (1 2.5 mm²), 2x (2.5 10 mm²) (1 2,5 mm²), 2x (2,5 10 mm²) (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² (1 2.5 mm²), 2x (14 8) 10 mm² 10 mm² 10 mm² 10 mm² 5 2.5 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2x connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing 1. connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing tonnectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded 2x	crew-type terminals crew-type terminals crew-type terminals (a (1 2.5 mm²), 2x (2.5 10 mm²) (a (1 2,5 mm²), 2x (2,5 10 mm²) (a (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² (a (16 12), 2x (14 8) 10 mm² 10 mm² 10 mm² 10 mm² 10 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing 1. connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing 1. connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing	crew-type terminals crew-t
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing 1. connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing	crew-type terminals crew-type terminals crew-type terminals (a (1 2.5 mm²), 2x (2.5 10 mm²) (a (1 2,5 mm²), 2x (2,5 10 mm²) (a (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² (a (16 12), 2x (14 8) 10 mm² 10 mm² 10 mm² 10 mm² 10 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts • at AWG cables for auxiliary contacts • at AWG cables for auxiliary contacts • at AWG cables for auxiliary contacts	crew-type terminals crew-type terminals crew-type terminals c(1 2.5 mm²), 2x (2.5 10 mm²) c(1 2,5 mm²), 2x (2,5 10 mm²) c(1 2,5 mm²), 2x (2,5 6 mm²), 1x 10 mm² c(1 2,5 mm²), 2x (14 8) 10 mm²

cross section for auxiliary contacts	
Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
product function	
 mirror contact acc. to IEC 60947-4-1 	Yes
 positively driven operation acc. to IEC 60947-5-1 	No
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 safety-related switching OFF	Yes
Cartificated approvals	

Certificates/ approvals

General Product Approval









KC





Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping











Confirmation

other



other

Confirmation

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=3RT2026-1AB04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1AB04

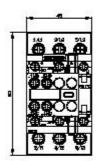
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

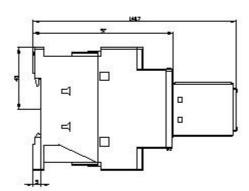
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AB04

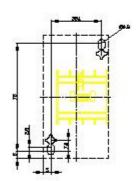
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

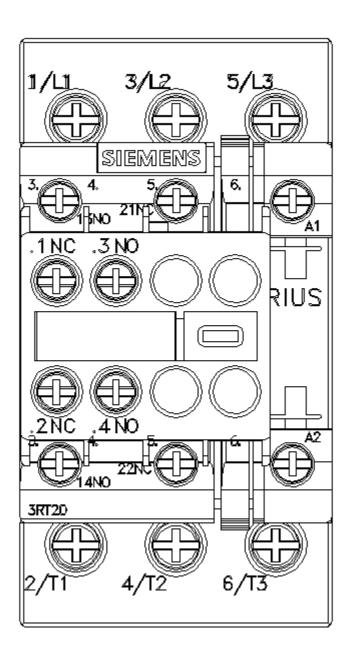
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-1AB04\&lang=en}}$

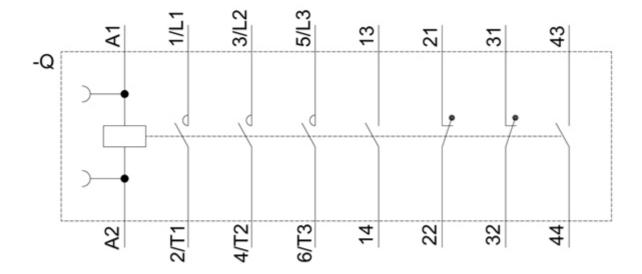
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AB04/char











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