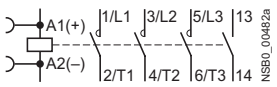
Schematics

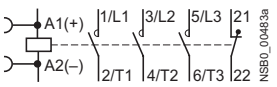
Internal circuit diagrams for 3RT1 contactors and accessories (valid for screw and Cage Clamp terminals)

Size S00
Terminal designations according to EN 50012
3RT10 1 contactors

1 NO
Ident. No.: 10E

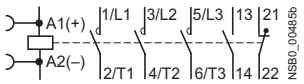


1 NC
01

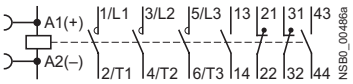


3RT10 1 contactors (with 1 NO)
with front-mounted 3RH19 11-.H. auxiliary switch blocks

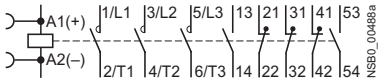
1 NO + 1 NC
Ident. No.: 11E



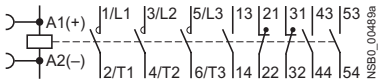
2 NO + 2 NC
22E



2 NO + 3 NC
Ident. No.: 23E

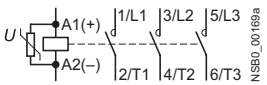


3 NO + 2 NC
32E



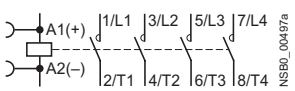
Size S0 to S3
Terminal designations according to EN 50012

3RT10 . . - . X . 40-0LA2 contactors
Varistor built-in

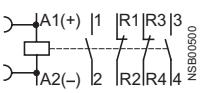


Contactors with 4 main contacts, size S00
Terminal designations according to EN 50005
3RT13 and 3RT15 contactors

4 NO

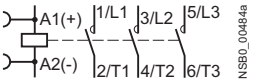


2 NO + 2 NC

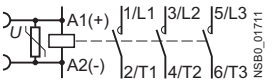


(3RH19 11 auxiliary switch blocks acc. to EN 50005 can be snapped on)

Size S0 to S12
Terminal designations according to EN 50012
3RT10 2, 3RT10 3 contactors

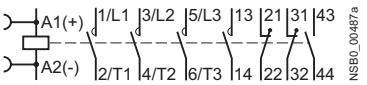


3RT10 5 to 3RT10 7, 3RT12, 3RT14 contactors



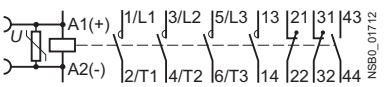
3RT10 2 and 3RT10 3, 3RT14 contactors
with front-mounted 4-pole 3RH19 21-.HA22 auxiliary switch block

2 NO + 2 NC
Ident. No.: 22E



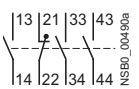
3RT1. 5, 3RT1. 6, 3RT1. 7 contactors (sizes S6, S10, S12)
with front-mounted 4-pole 3RH19 21-.HA22 auxiliary switch block or
with lateral 2-pole 3RH19 21-1DA11 auxiliary switch blocks

2 NO + 2 NC

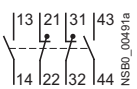


4-pole 3RH19 21-. HA../-.XA.. auxiliary switch blocks,
for snapping onto the front[1)]

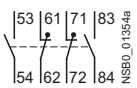
3 NO + 1 NC
Ident. No.: 31



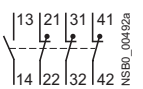
1 NO + 2 NC
22



2 NO + 2 NC
22

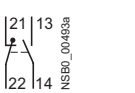


1 NO + 3 NC
13

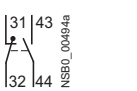


First laterally mountable 3RH19 21-. DA11, 3RH19 21-2DE11
auxiliary switch block (solid-state compatible)

1 NO + 1 NC
left

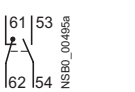


1 NO + 1 NC
right

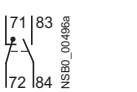


Second laterally mountable 3RH19 21-. JA11,
3RH19 21-2JE11 auxiliary switch block (solid-state compatible)
(only for sizes S3 to S12)

1 NO + 1 NC
left

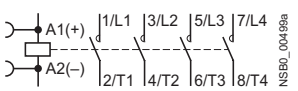


1 NO + 1 NC
right

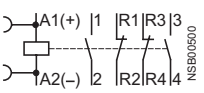


Contactors with 4 main contacts, sizes S0 to S3
Terminal designations according to EN 50005
3RT13 and 3RT15 contactors

4 NO



2 NO + 2 NC



(3RH19 21 auxiliary switch blocks acc. to EN 50005 can be snapped on)

Surge suppressors for sizes S00 to S3
(coded plug-in direction; Exception: for 3RT19 16-1T. . . diode assembly designation with +/–)

Diode

Diode assembly

Varistor

RC element

Diode with LED

Varistor with LED

1) Not for 3RT12 vacuum contactors.

Project planning aids

Internal circuit diagrams for 3RT1 contactors and accessories (valid for screw and Cage Clamp terminals)

Accessories for size S00 contactors and contactor relays
Terminal designations according to EN 50005

3RH19 11-.F... auxiliary switch blocks and 3RH19 11-.NF..
solid-state compatible auxiliary switch blocks for snapping onto the front

2 NO
Ident. No.: 20

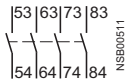
1 NO + 1 NC
11

2 NC
02

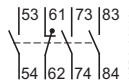
1 NO + 1 NC
11 U

with make-before-break

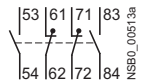
4 NO
Ident. No.: 40



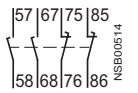
3 NO + 1 NC
31



2 NO + 2 NC
22

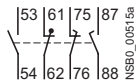


2 NO + 2 NC
22 U



with make-before-break

2 NO + 2 NC
11/11 U



1 NO + 1 NC standard
1 NO + 1 NC with make-before-break

3RH19 11-1AA.. and 3RH19 11-1BA..
auxiliary switch blocks,
for snapping onto the front,
cable entry from above or below

1 NO

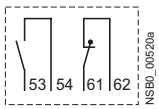
1 NC

3RH19 11-1LA.. and 3RH19 11-1MA..
auxiliary switch blocks,
for snapping onto the front,
cable entry from above or below

2 NO

1 NO + 1 NC

Internal wiring

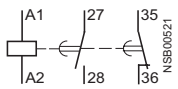


Example of 1 NO + 1 NC,
cable entry from below

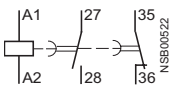
Accessories for size S00 contactors and contactor relays
Terminal designations according to DIN 46199 Part 5

3RT19 16-2E.../2F.../2G... solid-state, time-delay auxiliary switch blocks

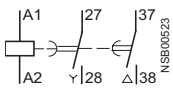
1 NO + 1 NC
ON-delay



1 NO + 1 NC
OFF-delay



2 NO
Wye-delta function

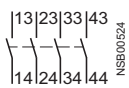


(Integrated varistors not shown)

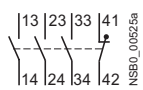
Accessories for size S0 to S12 contactors
Terminal designations according to EN 50005

3RH19 21-.F... auxiliary switch blocks, 4-pole,
for snapping onto the front[1)]

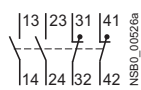
4 NO
Ident. No.: 40



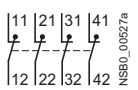
3 NO + 1 NC
31



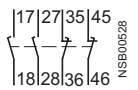
2 NO + 2 NC
22



4 NC
04



2 NO + 2 NC
22 U



with make-before-break

3RH19 21-.CA.. auxiliary switch blocks, 1-pole,
for snapping onto the front[1)]

1 NO

1 NC

3RH19 21-1CD.. auxiliary switch blocks, 1-pole
with make-before-break, for snapping onto the front[1)]

1 NO

1 NC

(Terminal designations according to EN 50005 or EN 50012)

1) Not for 3RT12 vacuum contactors.

Internal circuit diagrams for 3RT1 contactors and accessories (valid for screw and Cage Clamp terminals)

Accessories for size S0 to S12 contactors
Terminal designations according to EN 50005

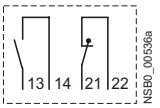
3RH19 21-1LA.. and 3RH19 21-1MA.. auxiliary switch block, 2-pole,
for snapping onto the front[1)]
cable entry from above or below

2 NO

1 NO + 1 NC

2 NC

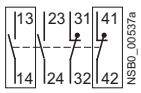
Internal wiring



Example of 1 NO + 1 NC,
cable entry from below

3RH19 21-.FE22 solid-state compatible auxiliary switch block, 4-pole,
for snapping onto the front[1)]

2 NO + 2 NC
Ident. No.: 22



3RH19 21-.EA.. first laterally mountable auxiliary switch blocks (left)

2 NO

1 NO + 1 NC

2 NC

3RH19 21-.EA.. first laterally mountable auxiliary switch blocks (right)

2 NO

1 NO + 1 NC

2 NC

3RH19 21-.KA.. second laterally mountable auxiliary switch blocks (left)
(only for sizes S3 to S12)

2 NO

1 NO + 1 NC

2 NC

3RH19 21-.KA.. second laterally mountable auxiliary switch blocks (right)
(only for sizes S3 to S12)

2 NO

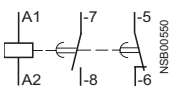
1 NO + 1 NC

2 NC

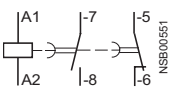
Accessories for size S0 to S12 contactors
Terminal designations according to DIN 46199 Part 5

3RT19 26-2E.../2F.../2G... solid-state, time-delay auxiliary switch blocks

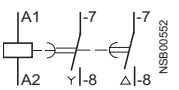
1 NO + 1 NC
ON-delay



1 NO + 1 NC
OFF-delay

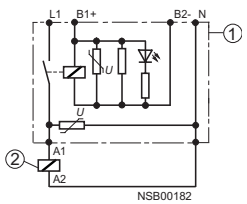


2 NO
Wye-delta function



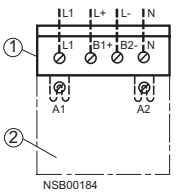
3RH19 24-1GP11 coupling link with surge suppression

Connection diagram



① Coupling link
② Contactor

Connection example



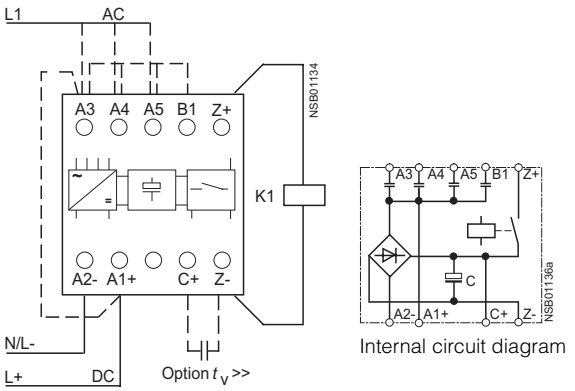
① Coupling link
② Contactor

[1)] Not for 3RT12 vacuum contactors.

Project planning aids

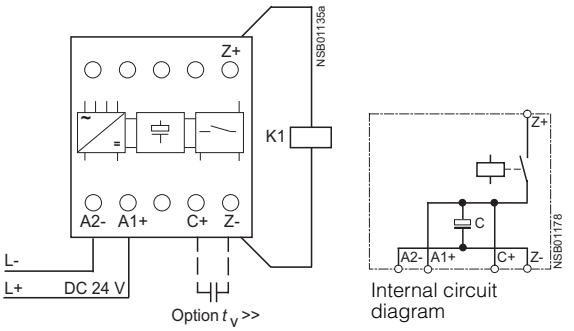
Schematics for accessories for sizes S00 to S3

3RT19 16-2BK01, 110 V UC
3RT19 16-2BL01, 230 V UC OFF-delay devices



Internal circuit diagram

3RT19 16-2BE01, 24 V DC OFF-delay devices



Internal circuit diagram

3RT19 16-2BK01, 110 V UC

110 V UC		A1	A3	A4	A5	B1	A2	Z+	Z–	t_V (ms) >
S00	DC	L+					L–	3RT1. 1.-.BF4. 3RH1. ..-.BF4.		130
	50 Hz		L1				N			130
	60 Hz		L1				N			130
S0	DC	L+					L–	3RT1. 2.-.BF4.		100
	50 Hz		L1				N			100
	60 Hz		L1				N			100

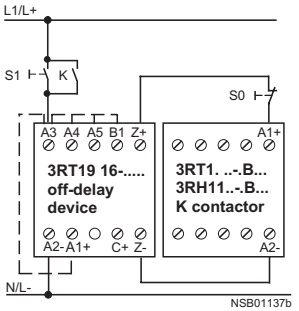
3RT19 16-2BE01, 24 V DC

24 V DC	A1	A2	Z+	Z–	t_V (ms) >
S00	L+	L–	3RT1. 1.-.BB4. 3RH1. ..-.BB4.		250
S0	L+	L–	3RT1. 2.-.BB4.		150
S2	L+	L–	3RT1. 3.-.BB4.		90
S3	L+	L–	3RT1. 4.-.BB4.		70

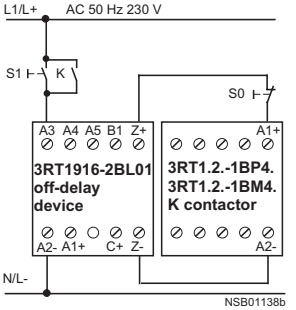
3RT19 16-2BL01, 230 V UC

230 V UC		A1	A3	A4	A5	B1	A2	Z+	Z–	t_V (ms) >
S00	DC	L+					L–	3RT1. 1.-.BM4. 3RT1. 1.-.BP4. 3RH1. ..-.BM4. 3RH1. ..-.BP4.		600
	50 Hz			L1			N			600
	60 Hz				L1		N			600
S0	DC	L+					L–	3RT1. 2.-.BM4. 3RT1. 2.-.BP4.		400
	50 Hz		L1				N			400
	60 Hz			L1			N			400

Operation <u>after</u> OFF-delay
(Contactor only switches off with delay in case of voltage failure)

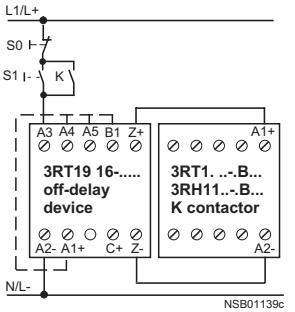


Schematic circuit diagram

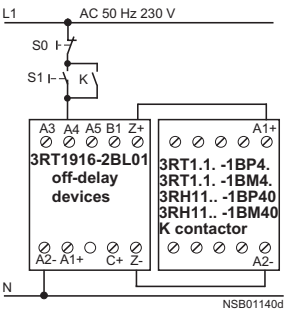


Typical circuit diagram:
Contactor size S0,
DC operation, at AC 50 Hz 230 V

Operation <u>before</u> OFF-delay
(Contactor always switches off with delay)



Schematic circuit diagram



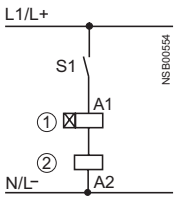
Typical circuit diagram:
Contactor size S00,
DC operation, at AC 50 Hz 230 V

Circuit diagrams for accessories for sizes S00 to S3

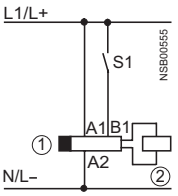
Accessories for size S00 to S3 contactors and contactor relays

Solid-state time-delay blocks
(note planning aids on Page 3/165!)

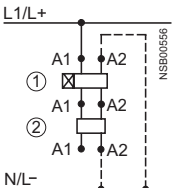
3RT19 16-2C...
ON-delay
Size S00



3RT19 16-2D...
OFF-delay (with auxiliary voltage)
Size S00

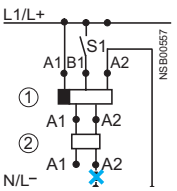


3RT19 26-2C...
ON-delay
Sizes S0 to S3



A2 can be connected to N(L–) using either the contactor or the timing relay.
- - - optionally connect

3RT19 26-2D...
OFF-delay (with auxiliary voltage)
Sizes S0 to S3

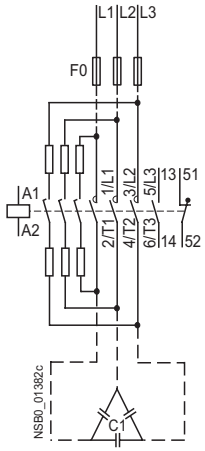


A2 must only be connected to N(L–) from the timing relay.
x do not connect

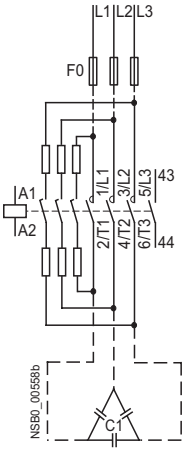
① Timing relay block
② Contactor

3RT16 capacitor contactors

Size S00



Sizes S0 and S3

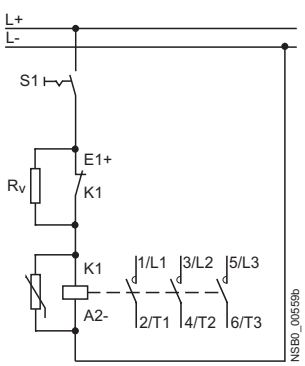


Internal circuit diagrams for accessories for sizes S00 to S3

Contactors with extended operating range 0.7 to 1.25 × U_s

Size S00
Terminal designations according to EN 50012

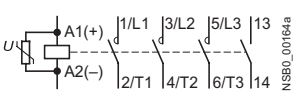
3RT10 17-2K.42-0LA0 contactors



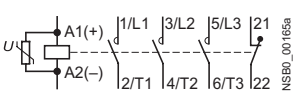
Series resistor R_V
plugged on,
NC contact prewired.

3RT10 17-2K.41/2K.42 contactor
Varistor integrated
Size S00

1 NO
Ident. No.: 10E

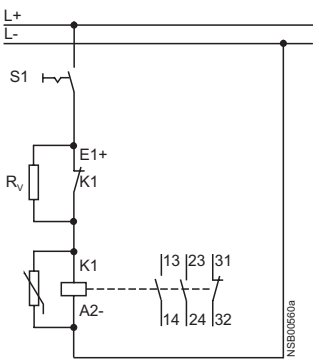


1 NC
01E



Terminal designations according to EN 50011

3RH11 22-2K.40-0LA0 contactor relays

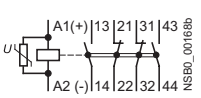


2 NO + 1 NC unassigned

Series resistor R_V
plugged on,
NC contact prewired.

3RH11 22-2K.40 contactor relay
Varistor integrated
Size S00

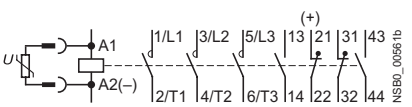
2 NO + 2 NC
22E



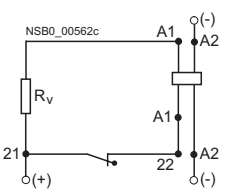
Size S00 to S3
Terminal designations according to EN 50012

3RT10 2.-, 3RT10 3.-,
3RT10 4.-3K.44-0LA0 contactors
with front-mounted 4-pole 3RH19 21-1HA22 auxiliary switch block

2 NO + 2 NC
Ident. No.: 22

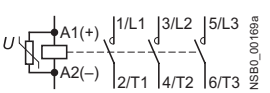


Circuit diagram of the series resistor wiring



The series resistor is supplied separately packed. The 21/22 NC contact is necessary to wire the series resistor.

3RT10 25-3K.40 contactor
Varistor integrated
Size S0



(Two single-pole auxiliary switch blocks can be snapped on)

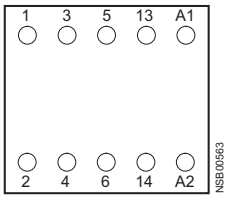
Project planning aids

Position of the terminals for 3RT1 contactors and accessories (valid for screw and Cage Clamp terminals)

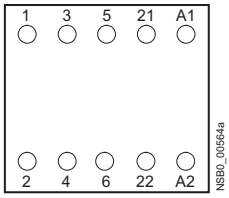
Size S00
Terminal designations according to EN 50012

3RT10 1 contactors, 3RT10 1 coupling relays
3RT10 17-2K.4. contactors with extended operating range

1 NO
Ident. No.: 10E

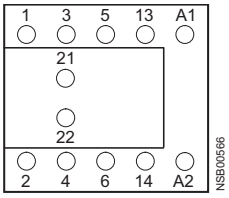


1 NC
01

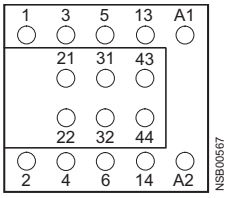


3RT10 1 contactors (with 1 NO contact)
with front-mounted 3RH19 11-. H . . .
auxiliary switch blocks

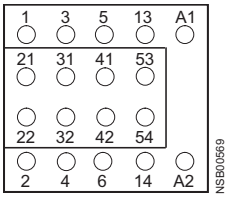
1 NO + 1 NC
Ident. No.: 11E



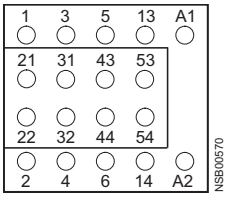
2 NO + 2 NC
22E



2 NO + 3 NC
Ident. No.: 23E

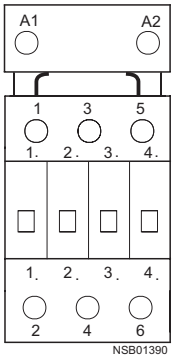


3 NO + 2 NC
32E



Size S0 to S3
Terminal designations according to EN 50012

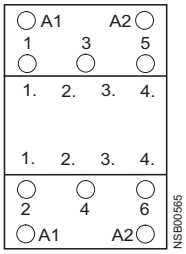
3RT10 . . - . X . 40-0LA2 contactors
with solid-state control unit



[1] Note location identifier. Can only be used if no 4-pole auxiliary switch block is snapped onto the front.

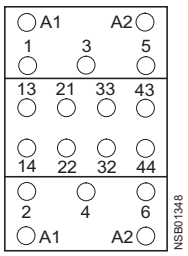
Size S0 to S12
Terminal designations according to EN 50012

3RT10 2, 3RT 10 3,
3RT10 4, 3RT14 46 contactors,
3RT10 2 coupling relays
3RT10 25-3K.40 contactors with
extended operating range



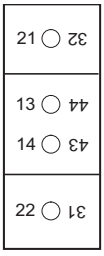
3RT10 2, 3RT10 3, 3RT10 4
contactors with front-mountable
4-pole 3RH19 21-. HA31
auxiliary switch block

3 NO + 1 NC
Ident. No.: 31 E

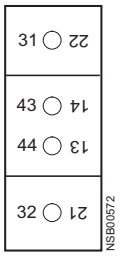


First laterally mountable
3RH19 21-. DA11[1]
auxiliary switch block
can be mounted on the left or right

1 NO + 1 NC
Left

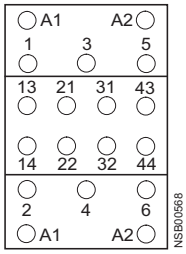


Right



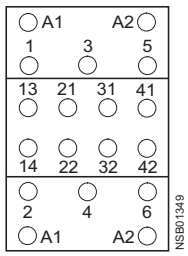
3RT10 2, 3RT10 3, 3RT10 4
contactors with front-mounted
4-pole 3RH19 21-. HA22
auxiliary switch block

2 NO + 2 NC
Ident. No.: 22 E



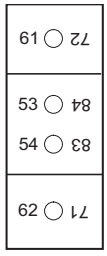
3RT10 2, 3RT10 3, 3RT10 4
contactors with front-mountable
4-pole 3RH19 21-. HA13
auxiliary switch block

1 NO + 3 NC
13 E

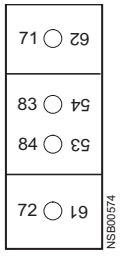


Second laterally mountable
3RH19 21-. JA11[1]
auxiliary switch block
can be mounted on the left or right
(only for sizes S3 to S12)

1 NO + 1 NC
Left



Right



Position of the terminals for 3RT1 contactors and accessories (valid for screw and Cage Clamp terminals)

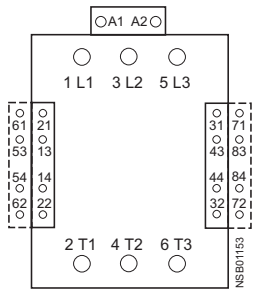
Sizes S6 to S12

3RT1 .5, 3RT1 .6, 3RT1 .7 contactors

- With conventional operating mechanism (3RT1. ..-.**A**...)

With laterally mountable auxiliary switch blocks
3RH19 21-1DA11
(for 2 NO + 2 NC, included in the contactors)
3RH19 21-1JA11
(can be extended to 4 NO + 4 NC)

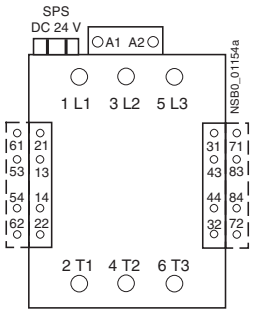
2 NO + 2 NC or 4 NO + 4 NC



- With solid-state operating mechanism (3RT1. ..-.**N**...)

With laterally mountable auxiliary switch blocks
3RH19 21-1DA11
(for 2 NO + 2 NC, included in the contactors)
3RH19 21-1JA11
(can be extended to 4 NO + 4 NC)

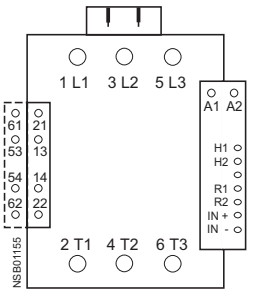
2 NO + 2 NC or 4 NO + 4 NC



- With solid-state operating mechanism (3RT1. ..-.**P**...)

With laterally mountable auxiliary switch blocks
3RH19 21-1DA11
(for 1 NO + 1 NC, included in the contactors)
3RH19 21-1JA11
(can be extended to 2 NO + 2 NC)

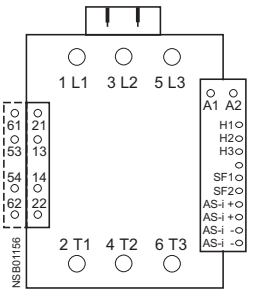
1 NO + 1 NC or 2 NO + 2 NC



- With solid-state operating mechanism (3RT1. ..-.**Q**...)

With laterally mountable auxiliary switch blocks
3RH19 21-1DA11
(for 1 NO + 1 NC, included in the contactors)
3RH19 21-1JA11
(can be extended to 2 NO + 2 NC)

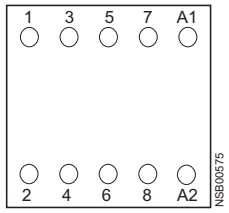
1 NO + 1 NC or 2 NO + 2 NC



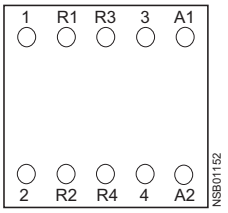
Contactors with 4 main contacts, size S00
Terminal designations according to EN 50005

3RT13 and 3RT15 contactors

4 NO



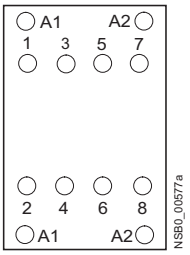
2 NO + 2 NC



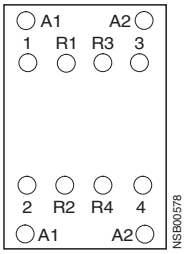
Contactors with 4 main contacts, sizes S0 to S3
Terminal designations according to EN 50005

3RT13 and 3RT15 contactors

4 NO



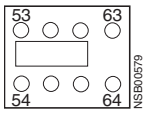
2 NO + 2 NC



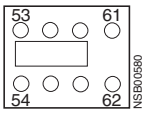
Accessories for size S00 contactors and contactor relays
Terminal designations according to EN 50005

3RH19 11-.F... auxiliary switch blocks and 3RH19 11-.NF.. solid-state compatible auxiliary switch blocks for snapping onto the front

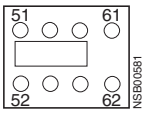
2 NO
Ident. No.: 20



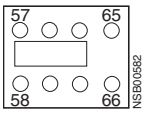
1 NO + 1 NC
11



2 NC
02

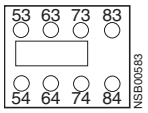


1 NO + 1 NC
11 U

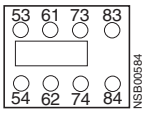


with make-before-break

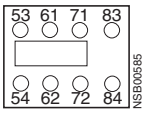
4 NO
Ident. No.: 40



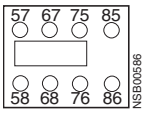
3 NO + 1 NC
31



2 NO + 2 NC
22

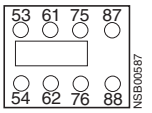


2 NO + 2 NC
22 U



with make-before-break

2 NO + 2 NC
11/11 U



1 NO + 1 NC ON-delay
1 NO + 1 NC with make-before-break

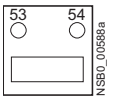
Project planning aids

Position of the terminals for 3RT1 contactors and accessories (valid for screw and Cage Clamp terminals)

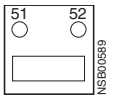
Accessories for size S00 contactors and contactor relays
Terminal designations according to EN 50005

3RH19 11-1AA..
auxiliary switch blocks for snapping onto the front
Cable entry from above

1 NO

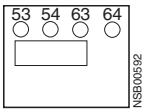


1 NC



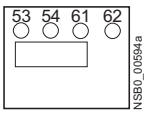
3RH19 11-1LA20

2 NO



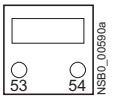
3RH19 11-1LA11

1 NO + 1 NC

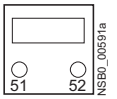


3RH19 11-1BA..
auxiliary switch blocks for snapping onto the front
Cable entry from below

1 NO

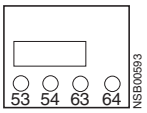


1 NC



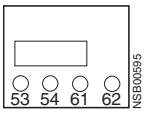
3RH19 11-1MA20

2 NO



3RH19 11-1MA11

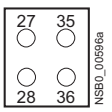
1 NO + 1 NC



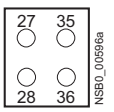
Terminal designations according to DIN 46199 Part 5

3RT19 16-2E…/2F…/2G… solid-state, time-delay auxiliary switch blocks

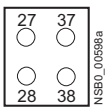
1 NO + 1 NC
ON-delay



1 NO + 1 NC
OFF-delay



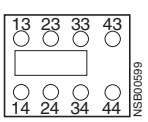
2 NO
Wye-delta function



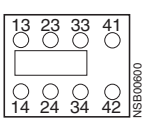
Accessories for size S0 to S12 contactors
Terminal designations according to EN 50005

3RH19 21-.F… auxiliary switch blocks, 4-pole,
for snapping onto the front

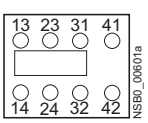
4 NO
Ident. No.: 40



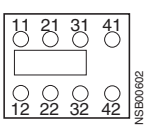
3 NO + 1 NC
31



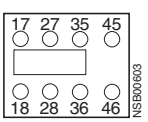
2 NO + 2 NC
22



4 NC
04



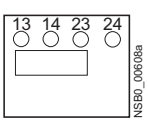
2 NO + 2 NC
22 U



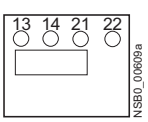
with make-before-break

3RH19 21-1LA.. auxiliary switch blocks, 2-pole
for snapping onto the front, cable entry from the top

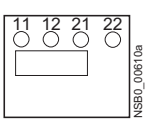
2 NO



1 NO + 1 NC

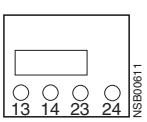


2 NC

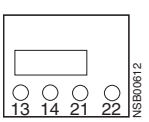


3RH19 21-1MA.. auxiliary switch blocks, 2-pole,
for snapping onto the front, cable entry from the bottom

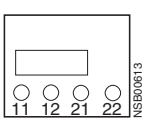
2 NO



1 NO + 1 NC

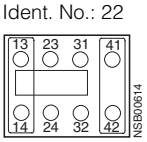


2 NC



3RH19 21-.FE22 solid-state compatible auxiliary switch block, 4-pole,
for snapping onto the front

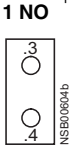
2 NO + 2 NC
Ident. No.: 22



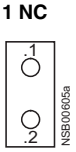
Terminal designations according to EN 50005 or EN 50012

3RH19 21-.CA.. auxiliary switch blocks, 1-pole,
for snapping onto the front

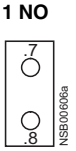
1 NO



1 NC

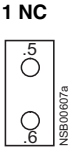


1 NO



with extended contacting

1 NC



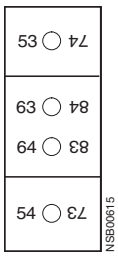
with extended contacting

Position of the terminals for 3RT1 contactors and accessories

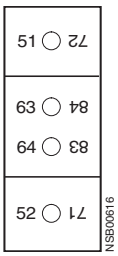
Accessories for size S0 to S12 contactors
Terminal designations according to EN 50005

First laterally mountable 3RH19 21-.EA.. auxiliary switch blocks (left)

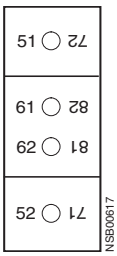
2 NO



1 NO + 1 NC

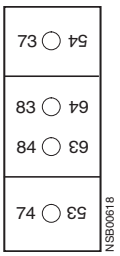


2 NC

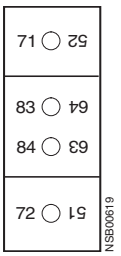


First laterally mountable 3RH19 21-.EA.. auxiliary switch blocks (right)

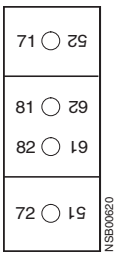
2 NO



1 NO + 1 NC

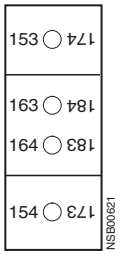


2 NC

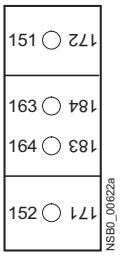


Second laterally mountable 3RH19 21-.KA.. auxiliary switch blocks (left)
(only for sizes S3 to S12; can only be used if no auxiliary switches are snapped onto to the front)

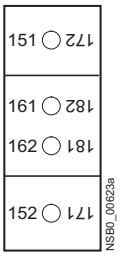
2 NO



1 NO + 1 NC

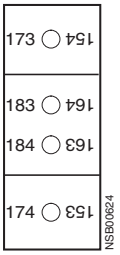


2 NC

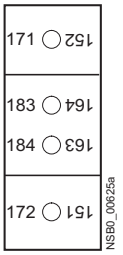


Second laterally mountable 3RH19 21-.KA.. auxiliary switch blocks (right)
(only for sizes S3 to S12; can only be used if no auxiliary switches are snapped onto to the front)

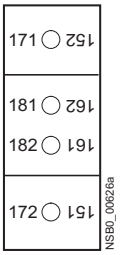
2 NO



1 NO + 1 NC



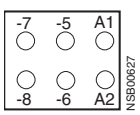
2 NC



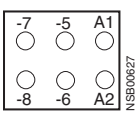
Accessories for size S0 to S12 contactors
Terminal designations according to DIN 46199 Part 5

3RT19 26-2E.../2F.../2G... solid-state, time-delay auxiliary switch blocks

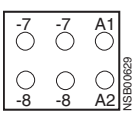
1 NO + 1 NC
With ON-delay



1 NO + 1 NC
OFF-delay

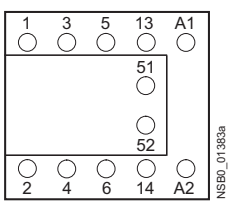


2 NO
Wye-delta function



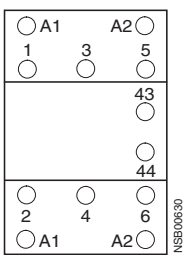
3RT16 capacitor contactors

Size S00
with 4-pole auxiliary switch block mounted on the front



The auxiliary switch block contains 3 leading contacts (not shown) and one unassigned NO contact and one unassigned NC contact.

Size S0 and S3
with 4-pole auxiliary switch block mounted on the front



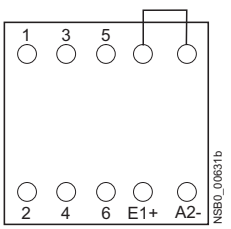
The auxiliary switch block contains 3 leading contacts (not shown) and one unassigned NO contact.

Project planning aids

Position of the terminals for 3RT1 contactors and accessories

Contactors with extended operating range 0.7 to 1.25 × U_S
Size S00
Terminal designations according to EN 50012

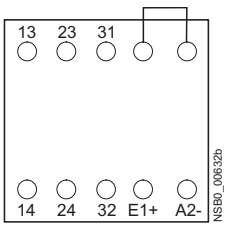
3RT10 17-2K.42-0LA0 contactors



Series resistor R_V plugged on, NC contact prewired.
3RH19 11-2.... auxiliary switch blocks according to EN 50005 can be snapped on.

Terminal designations according to EN 50011

3RH11 22-2K.40-0LA0 contactor relays

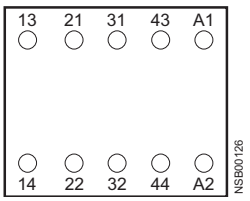


Series resistor R_V plugged on, NC contact prewired.
3RH19 11-2.... auxiliary switch blocks according to EN 50005 can be snapped on.

Contactor relays with extended operating range 0.7 to 1.25 × U_S
Size S00

3RH11 22-2K.40 contactor relays

2 NO + 2 NC
Ident. No.: 22 E

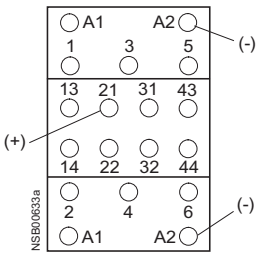


It is not possible to mount an auxiliary switch block.

Contactors with extended operating range 0.7 to 1.25 × U_S
Size S0 to S3
Terminal designations according to EN 50012

3RT10 2.-, 3RT10 3.-, 3RT10 4.-3K.44-0LA0 contactors
with front 4-pole 3RH19 21-2HA22 auxiliary switch block

2 NO + 2 NC
Ident. No.: 22 E



For circuit diagram of the series resistor wiring, see page 3/219.

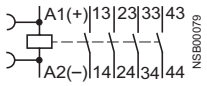
Note:
For position of terminals for the 3RT10 17-2K.4. and 3RT10 25-3K.40 contactors see page 3/220.

Connection diagrams for 3RH1 contactor relays, size S00

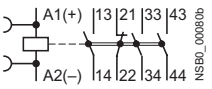
Terminal designations according to EN 50011[1)]

3RH11 contactor relays

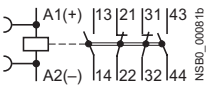
4 NO
Ident. No.: 40E



3 NO + 1 NC
31 E

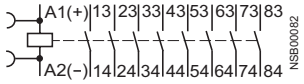


2 NO + 2 NC
22E

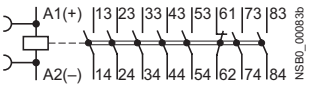


3RH11 40 contactor relays
with 3RH19 11-1GA. .,
3RH12 44, 3RH12 62 auxiliary switch blocks snapped onto the front

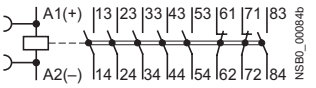
8 NO
Ident. No.: 80E



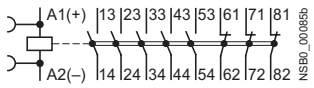
7 NO + 1 NC
71E



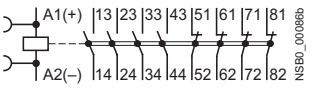
6 NO + 2 NC
62E



5 NO + 3 NC
Ident. No.: 53E

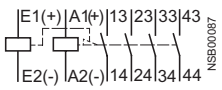


4 NO + 4 NC
44E

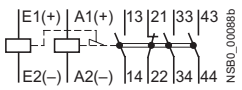


3RH14 latched contactor relays

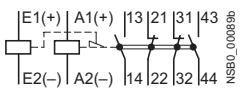
4 NO
Ident. No.: 40E



3 NO + 1 NC
1E



2 NO + 2 NC
22E



Surge suppressor (plug-in direction coded)

Diode

Diode assembly

Varistor

RC element

Diode with LED

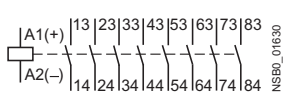
Varistor with LED

[1)] Positively-driven operation is assured likewise for auxiliary switch blocks according to EN 50005 in conjunction with 3RH11 contactor relays (basic units).

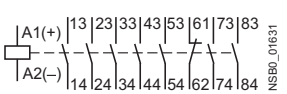
Connection diagrams for 3TH42 contactor relays with 8 contacts

Terminal designations according to EN 50011

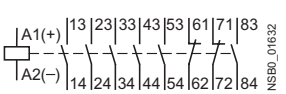
8 NO
Ident. No.: 80E



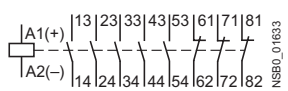
7 NO + 1 NC
71E



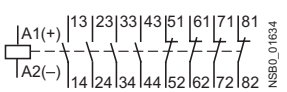
6 NO + 2 NC
62E



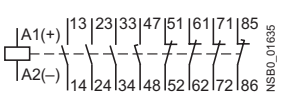
5 NO + 3 NC
Ident. No.: 53E



4 NO + 4 NC
44E



3 NO + 3 NC and 1 NO + 1 NC make-before-break
44E, U

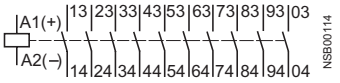


Project planning aids

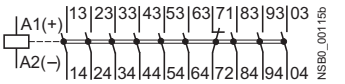
Connection diagrams for 3TH43 contactor relays with 10 contacts

Terminal designations according to EN 50011

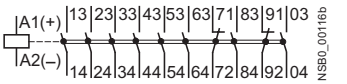
10 NO
Ident. No.: 100E



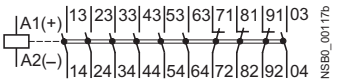
9 NO + 1 NC
91E



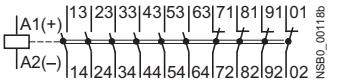
8 NO + 2 NC
82E



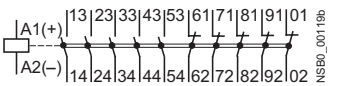
7 NO + 3 NC
Ident. No.: 73E



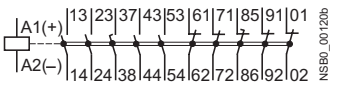
6 NO + 4 NC
64E



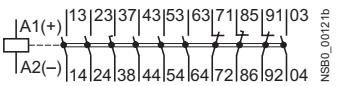
5 NO + 5 NC
55E



4 NO + 4 NC, 1 NO + 1 NC make-before-break
Ident. No.: 55E; U



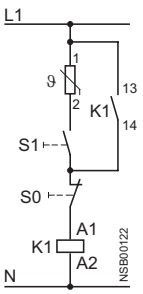
6 NO + 2 NC, 1 NO + 1 NC make-before-break
73E; U



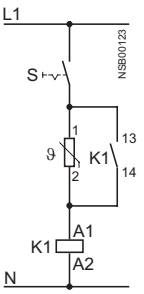
Circuit diagrams for 3TH43 contactor relays with 10 contacts

3TX4 180-0A NTC thermistor module
Switching examples

Momentary-contact operation

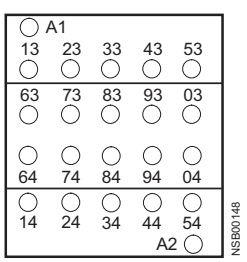


Maintained-contact operation

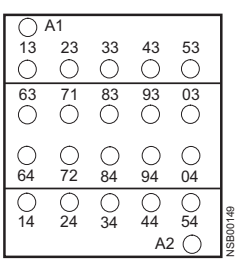


Position of the terminals for 3TH43 contactor relays with 10 contacts

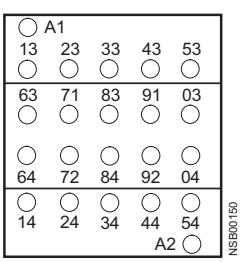
10 NO
Ident. No.: 100E



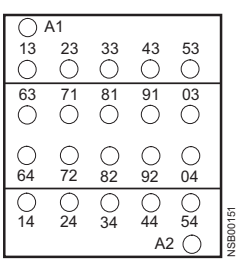
9 NO + 1 NC
91E



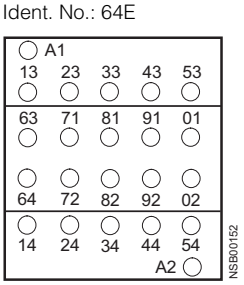
8 NO + 2 NC
82E



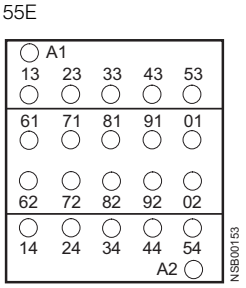
7 NO + 3 NC
73E



6 NO + 4 NC
Ident. No.: 64E



5 NO + 5 NC
55E

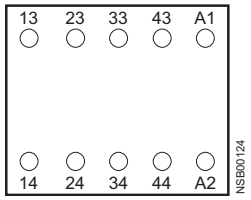


Position of the terminals for 3RH1 contactor relays, size S00

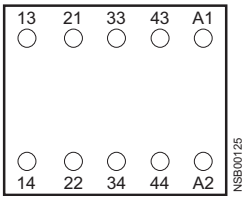
Terminal designations according to EN 50011

3RH11 contactor relays

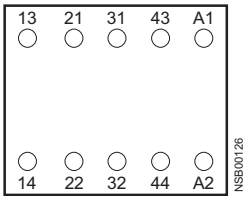
4 NO
Ident. No.: 40E



3 NO + 1 NC
31E

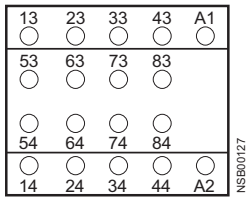


2 NO + 2 NC
22E

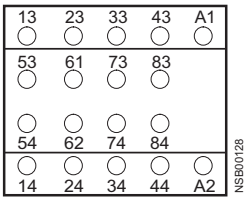


3RH11 40 contactor relays
with 3RH19 11-1GA. . ,
3RH12 44, 3RH12 62 auxiliary switch blocks snapped onto the front

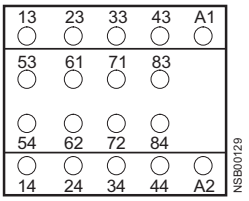
8 NO
Ident. No.: 80E



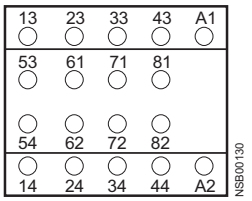
7 NO + 1 NC
71E



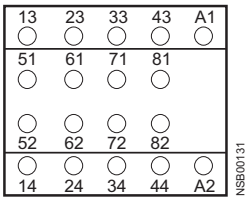
6 NO + 2 NC
62E



5 NO + 3 NC
53E

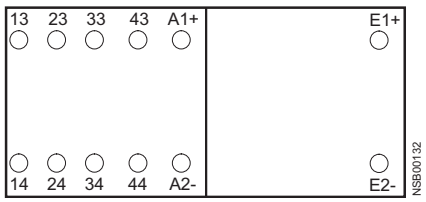


4 NO + 4 NC
Ident. No.: 44E

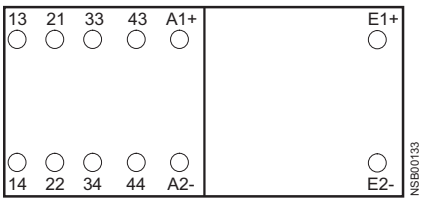


3RH14 latched contactor relays

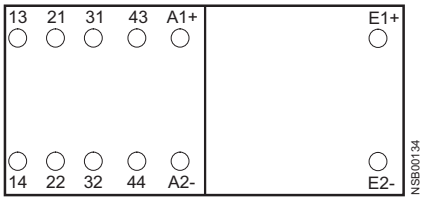
4 NO
Ident. No.: 40E



3 NO + 1 NC
31E



2 NO + 2 NC
Ident. No.: 22E



Project planning aids

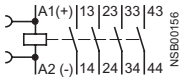
Connection diagrams for 3RH11 coupling relays for switching auxiliary circuits

DC operation
• L+ is to be connected to coil terminal A1.

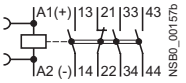
3RH11 coupling relays for auxiliary circuits
Size S00
Terminal designations according to EN 50011
(it is not possible to snap on an auxiliary switch block)

Surge suppressor can be mounted

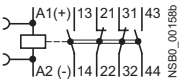
4 NO
Ident. No.: 40E



3 NO + 1 NC
31E

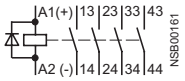


2 NO + 2 NC
22E

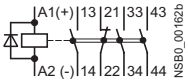


Diode integrated

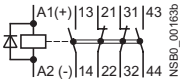
4 NO
Ident. No.: 40E



3 NO + 1 NC
31E

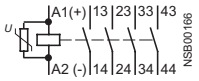


2 NO + 2 NC
22E

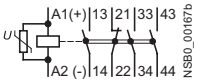


Varistor integrated

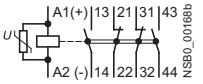
4 NO
Ident. No.: 40E



3 NO + 1 NC
31E



2 NO + 2 NC
22E

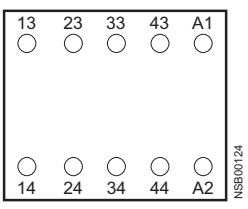


Surge suppressors for size S00 coupling relays
see 3RH11 contactor relays, page 3/225.

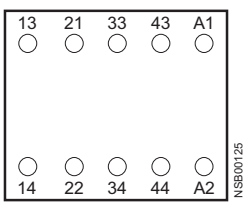
Position of the terminals for 3RH11 coupling relays for switching auxiliary circuits

Size S00
3RH11 coupling relays

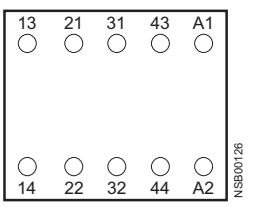
4 NO
Ident. No.: 40E



3 NO + 1 NC
31E



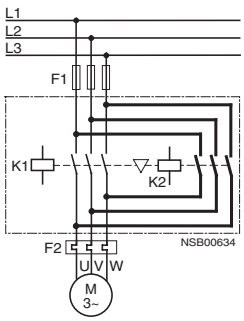
2 NO + 2 NC
22E



Circuit diagrams for 3RA13 reversing contactor assemblies

Size S00

Main circuit

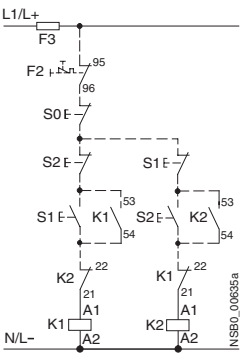


The 3RA19 13-2A installation kit contains, among other things, wiring connectors for connecting the main current paths.

Control circuit

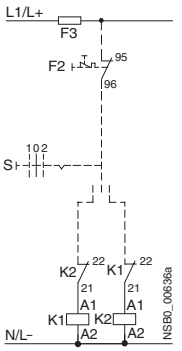
(The terminal designations for the contactors comply with EN 50012)

For momentary-contact operation



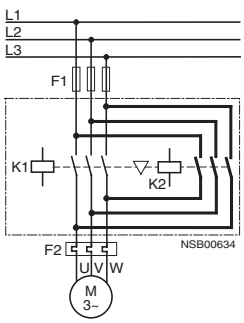
The 3RA19 13-2A installation kit contains, among other things, the electrical interlock.

For maintained-contact operation



Sizes S0 to S3

Main circuit

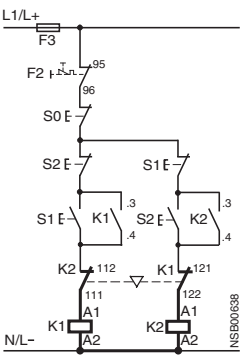


The 3RA19 .3-2A installation kits contain, among other things, the wiring modules on the top and bottom for connecting the main conducting paths.

Control circuit

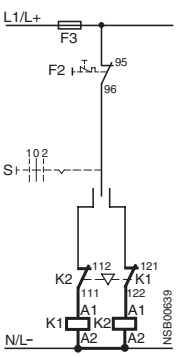
(The terminal designations for the contactors comply with EN 50005)

For momentary-contact operation



The 3RA19 24-2B mechanical interlock contains one NC contact for each contactor for the NC contact interlock.

For maintained-contact operation

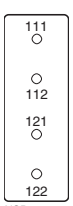


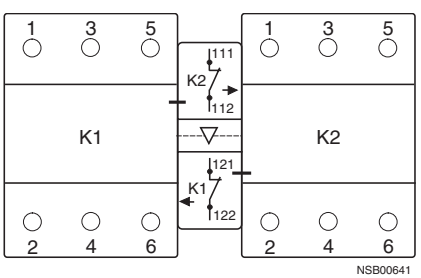
Position of the terminals for 3RA13 reversing contactor assemblies

Size S0 to S3
Terminal designations according to EN 50005

3RA19 24-2B mechanical interlock (laterally mountable), integrated in reversing contactor assemblies (reversing starters), contains one NC contact for the electrical interlock for each contactor

2 NC





S0 Button "OFF"
S1 Button "Clockwise ON"
S2 Button "Counterclockwise ON"
S Button "CW-OFF-CCW"

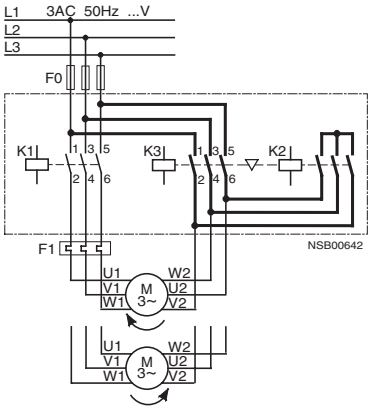
K1 Clockwise contactor
K2 Counterclockwise contactor

F1 Fuses for main circuit
F3 Fuses for control circuit
F2 Overload relays

Project planning aids

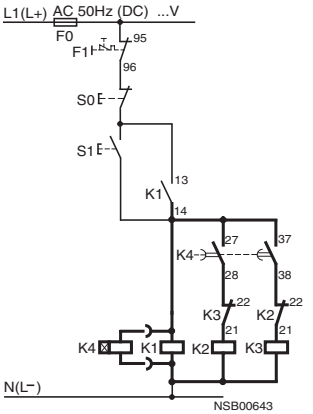
Circuit diagrams for 3RA14 wye-delta starting contactor assemblies

Size S00
Main circuit

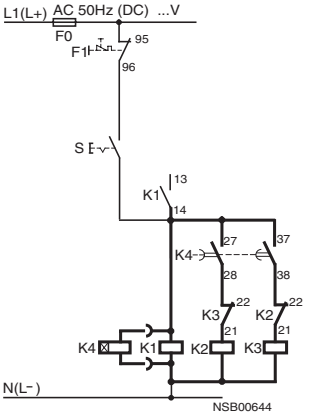


Control circuits
with 3RT19 16-2G… solid state time-delay auxiliary switch block,
snapped onto the front (example circuits)

For momentary-contact operation

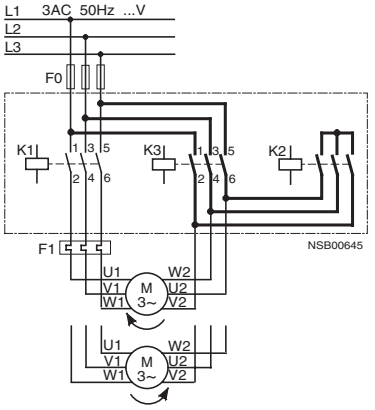


For maintained-contact operation



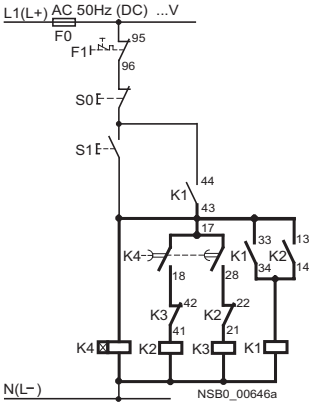
The contact element 27/28 for the solid-state time-delay auxiliary switch block with wye-delta function is only closed on the wye stage; the contact element is open in the delta stage as well as in the de-energized state.

Sizes S0 to S6[1)]
Main circuit

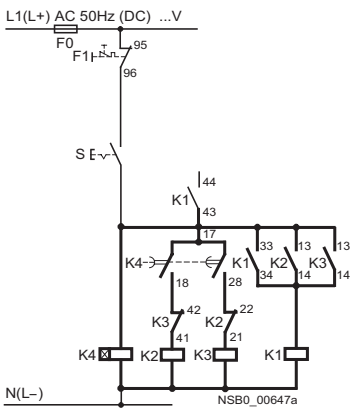


Control circuits
with 3RP15 7. timing relay,
laterally mounted (example circuits)

For momentary-contact operation

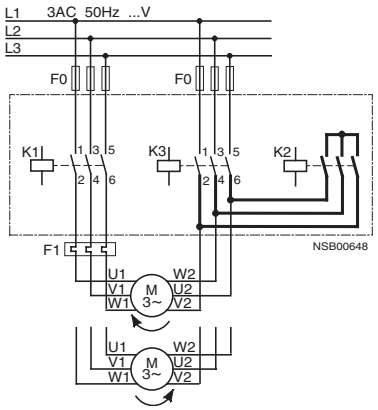


For maintained-contact operation



The contact element 17/18 is only closed in the wye stage; the contact element is open in the delta stage as well as in the de-energized state.
S1 (S) is connected to clamping point K1/33.

Sizes S6 to S12



S0 Button "OFF"
S1 Button "ON"
S Maintained-contact switch

K1 Line contactor
K2 Star contactor
K3 Delta contactor
K4 Solid-state, time-delay auxiliary switch block or timing relay

F0 Fuses
F1 Overload relays

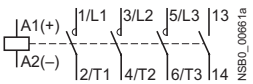
[1)] Only 3RA19 53-2B. installation kit

Internal circuit diagrams for 3TG10 miniature contactors

3TG10 10 contactors

1 NO

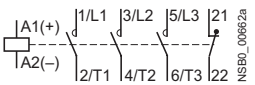
Ident. No.: 10E



3TG10 01 contactors

1 NC

01E



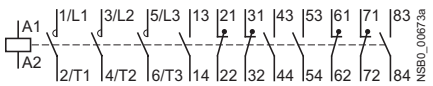
Internal circuit diagrams for 3TF68 and 3TF69 vacuum contactors, 3-pole

3TF68 44 and 3TF69 44 contactors

4 NO + 4 NC

AC operation

Maximum number of auxiliary contacts that can be fitted

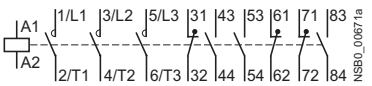


3TF68 33 and 3TF69 33 contactors

3 NO + 3 NC

DC operation

Maximum number of auxiliary contacts that can be fitted



3TY7 681-1G
auxiliary switch blocks

for coil reconnection, 3TF68 and 3TF69, DC economy circuit

3TY7 561-1AA00
auxiliary switch blocks

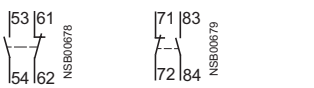
1st auxiliary switch block left or right

mounted on left Mounted on right

3TY7 561-1KA00
auxiliary switch blocks

2nd auxiliary switch block left or right

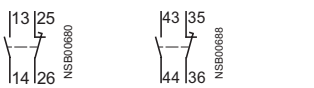
mounted on left Mounted on right



3TY7 561-1EA00
auxiliary switch blocks

With overlapping contacting

mounted on left Mounted on right



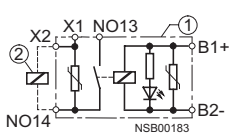
3TY7 561-1. auxiliary switch blocks

Solid-state compatible auxiliary switch block

mounted on left mounted on right

3TX7 090-0D
coupling links for control by PLC

with surge suppression

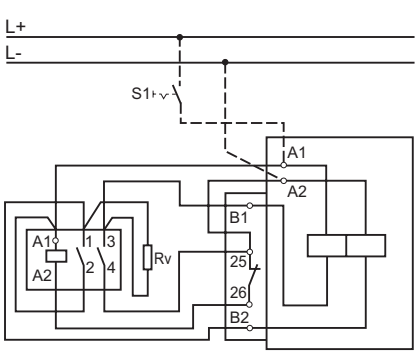


① Coupling link
② Contactor

Circuit diagrams for 3TF68 and 3TF69 vacuum contactors, 3-pole

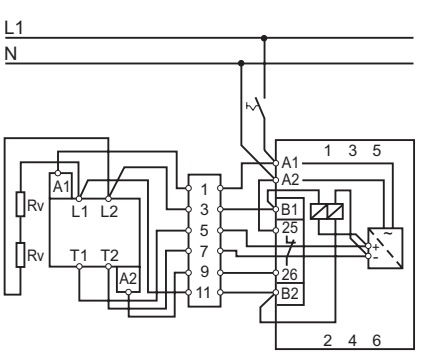
DC economy circuit · Maintained-contact operation

3TF68 33-.D.4 and 3TF69 33-.D.4 contactors



For AC control supply voltage subject to strong interference

3TF68 33-.Q.7 and 3TF69 33-.Q.7 contactors

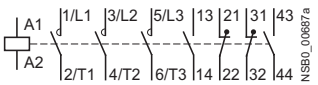


Project planning aids

Internal circuit diagrams for 3TB50 to 3TB56 contactors, 3-pole

Sizes 6 to 12
3TB50 to 3TB56

DC operation
Auxiliary contacts: **2 NO + 2 NC**



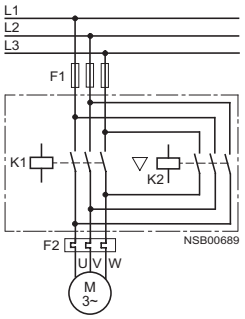
3TY6 501-1E, 3TY6 561-1E
auxiliary switch block

with overlapping
contacting

Circuit diagrams for 3TD68 reversing contactor assemblies

Main circuit

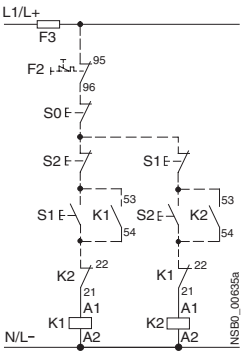
In the main circuit the connections are made between contactors K1 and K2.



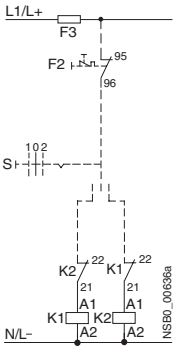
Control circuits

The control circuit cables indicated by broken lines are not wired in the factory.

Momentary-contact operation



Maintained-contact operation



Terminal designations of the unassigned auxiliary contacts

Contactor assembly	With electrical interlock				Without electrical interlock			
	Contactor K1		Contactor K2		Contactor K1		Contactor K2	
	NO contact	NC contact	NO contact	NC contact	NO contact	NC contact	NO contact	NC contact
3TD68	13 – 14 43 – 44 53 – 54 83 – 84	21 – 22 61 – 62 71 – 72	13 – 14 43 – 44 53 – 54 83 – 84	31 – 32 61 – 62 71 – 72	13 – 14 43 – 44 53 – 54 83 – 84	21 – 22 31 – 32 61 – 62 71 – 72	13 – 14 43 – 44 53 – 54 83 – 84	21 – 22 31 – 32 61 – 62 71 – 72

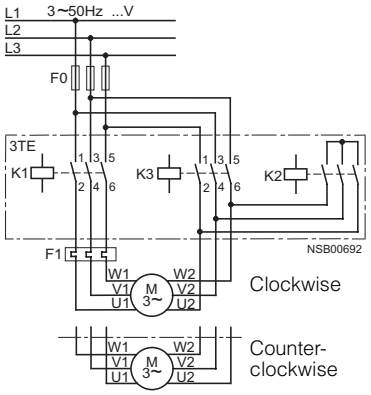
S0 Button "OFF"
S1 Button "Clockwise ON"
S2 Button "Counterclockwise ON"
S Button "CW-OFF-CCW"
K1 Clockwise contactor
K2 Counterclockwise contactor
F1 Fuses for main circuit
F3 Fuses for control circuit
F2 Overload relays

Circuit diagrams for 3TE68 wye-delta starting contactor assemblies

Main circuit

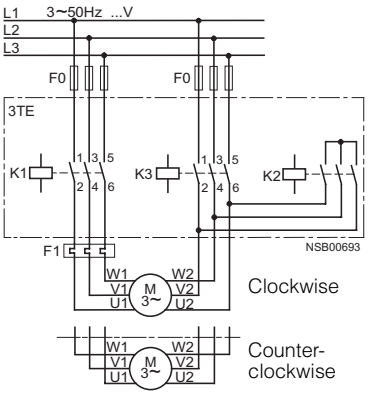
Single infeed

Without main conducting path connection between line and delta contactors



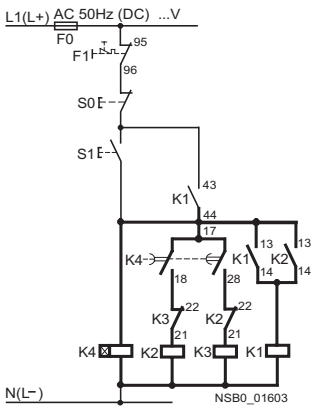
Double infeed

Without main conducting path connection between line and delta contactors

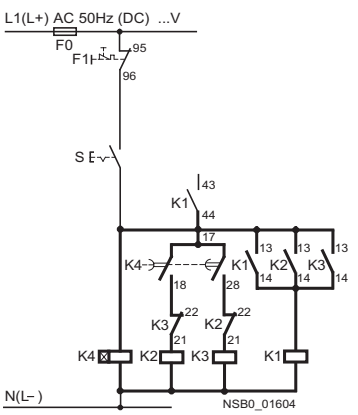


Control circuit with 3RP1 574 timing relay

For momentary-contact operation



For maintained-contact operation



The contact element 17/18 is only closed in the wye stage; the contact element is open in the delta stage as well as in the de-energized state.

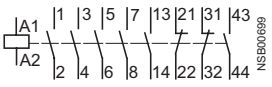
S0 Button "OFF"
S1 Button "ON"
S Maintained-contact switch

K1 Line contactor
K2 Star contactor
K3 Delta contactor
K4 Timing relay

F0 Fuses
F1 Overload relays

Internal circuit diagrams for 3TK1 contactors, 4-pole (4 NO) for switching resistive loads (AC-1)

3TK1 contactors



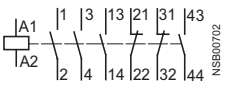
3TK1 910-3B auxiliary switch block

mounted on left

mounted on right

Project planning aids

Internal circuit diagram for 3TC44 to 3TC56 contactors for switching DC voltage

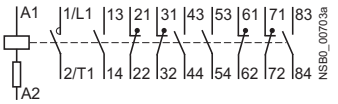


Internal circuit diagrams for 3TC74, 3TC78 contactors for switching DC voltage

DC operation

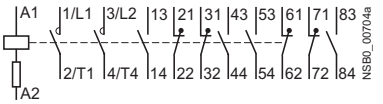
3TC74 contactors

Auxiliary contacts **4 NO + 4 NC**



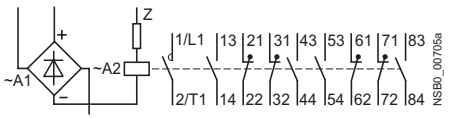
3TC78 contactors

Auxiliary contacts **4 NO + 4 NC**

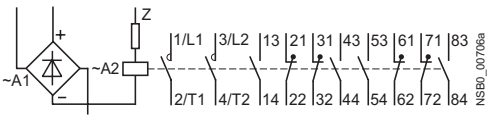


AC operation

Auxiliary contacts **4 NO + 4 NC**
Must be operated in the DC circuit



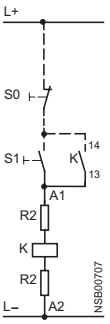
Auxiliary contacts **4 NO + 4 NC**
Must be operated in the DC circuit



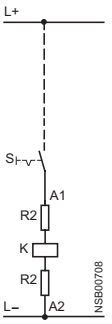
Circuit diagrams for 3TC74, 3TC78 contactors for switching DC voltage

3TC74 contactors

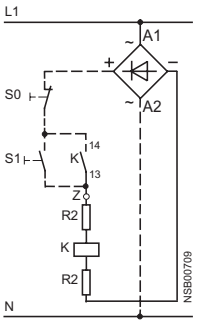
Momentary-contact operation
DC operation



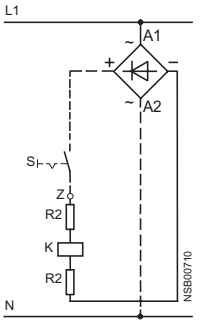
Maintained-contact operation



Momentary-contact operation
AC operation (must be operated in the DC circuit)

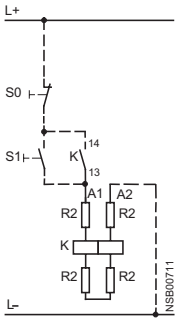


Maintained-contact operation

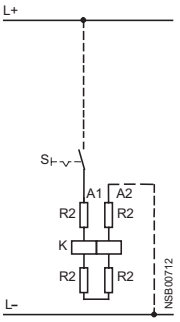


3TC78 contactors

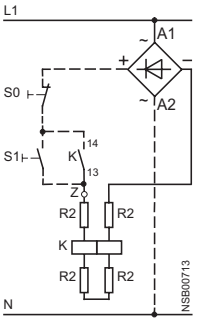
Momentary-contact operation
DC operation



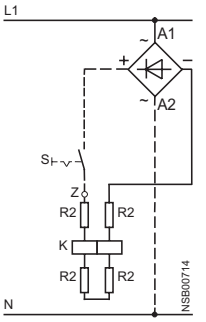
Maintained-contact operation



Momentary-contact operation
AC operation (must be operated in the DC circuit)

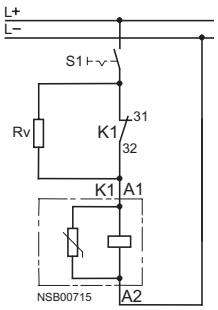


Maintained-contact operation

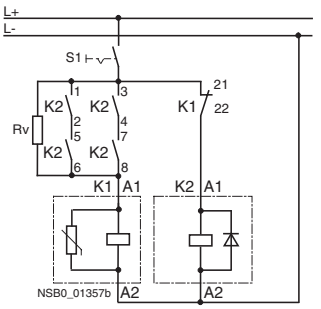


Circuit diagrams for 3T contactors with extended operating range 0.7 to 1.25 x U_s

Circuit with series resistor Rv (size 2 or larger) without reversing contactor



Circuit with series resistor Rv and reversing contactor K2 (for K1 contactors size 8 or larger)



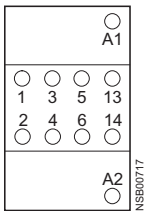
Rv:
Two resistors are connected in series for 3TB54, 3TB56 and 3TC56 contactors.

K2:
For 3TB52 to 3TB56 and 3TC52 to 3TC56:
3RT13 17-1F . 40

Position of the terminals for 3TG10 miniature contactors

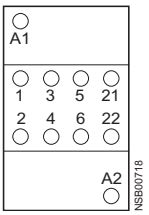
3TG10 10 contactors

1 NO



3TG10 01 contactors

1 NC

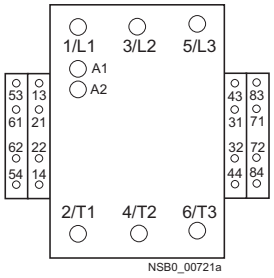


Position of the terminals for 3TF68 and 3TF69 vacuum contactors, 3-pole

AC operation

3TF68 and 3TF69 contactors

4 NO + 4 NC

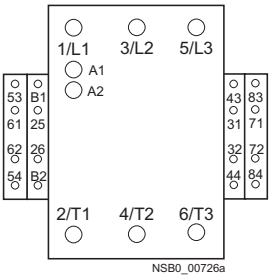


DC operation

3TF68 and 3TF69 contactors

3 NO + 3 NC

Maximum number of auxiliary contacts that can be fitted



3TY7 561-1 . solid-state compatible auxiliary switch blocks for lateral mounting

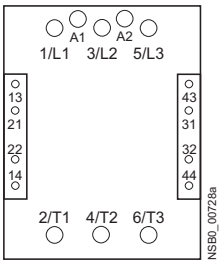
left mounted

right mounted

Project planning aids

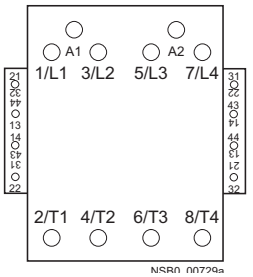
Position of the terminals for 3TB50 to 3TB56 contactors, 3-pole

Size 6 to 12
3TB50 to 3TB56 contactors
2 NO + 2 NC



Position of the terminals for 3TK1 contactors for switching resistive loads (AC-1)

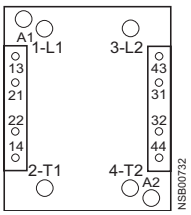
3TK10 to 3TK17 contactors
2 NO + 2 NC



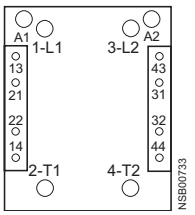
Position of the terminals for 3TC contactors for switching DC voltage

AC and DC operation

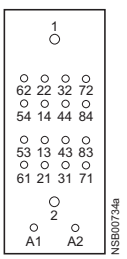
Size 2
3TC44 contactors



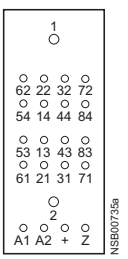
Sizes 4, 8 and 12
3TC48 to 3TC56 contactors



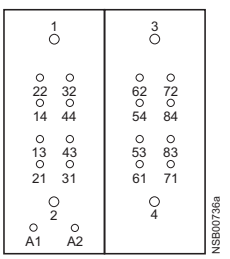
DC operation
3TC74 contactors



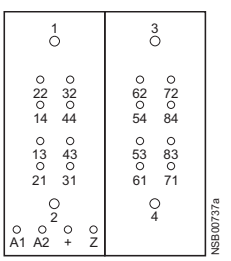
AC operation
3TC74 contactors



DC operation
3TC78 contactors



AC operation
3TC78 contactors

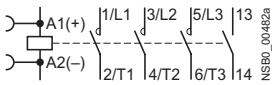


Internal circuit diagrams for 3TF2 and 3TK2 contactors

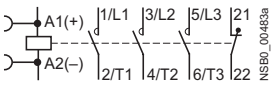
Terminal designations according to EN 50012

3TF20 ..-0 and 3TF28 ..-0 contactors
with AC and DC operation

1 NO
Ident. No.: 10E

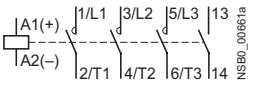


1 NC
01E

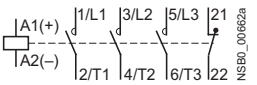


3TF20 ..-3, 3TF20 ...-6 and 3TF20 ..-7 contactors
with AC and DC operation

1 NO
Ident. No.: 10E

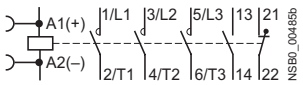


1 NC
01E

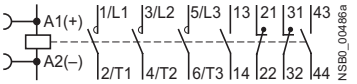


3TF20 10 contactors with 3TX4 4 ..-1 auxiliary switch block,
3TF22 and 3TF29 contactors
with AC and DC operation

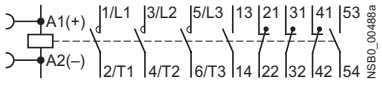
1 NO + 1 NC
Ident. No. 11E



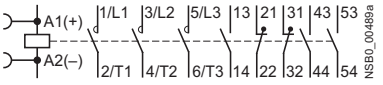
2 NO + 2 NC
22E



2 NO + 3 NC
Ident. No.: 23E



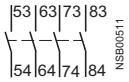
3 NO + 2 NC
32E



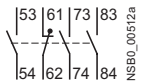
Terminal designations according to EN 50005

3TX4 4 ..-2 auxiliary switch block

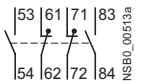
4 NO
Ident. No.: 40



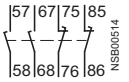
3 NO + 1 NC
31



2 NO + 2 NC
22



2 NO + 2 NC
22U



with make-before-break

2 NO
Ident. No.: 20

1 NO + 1 NC
11

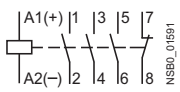
2 NC
02

1 NO + 1 NC
11U

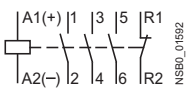
with make-before-break

3TK20 contactors

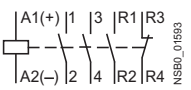
4 NO



3 NO + 1 NC



2 NO + 2 NC



Surge suppressors

Diode

Diode assembly

Varistor

RC element

Diode with LED

Varistor with LED

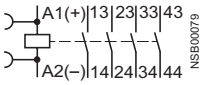
Project planning aids

Internal circuit diagrams for 3TH2 contactor relays and 3TH27 latched contactor relays

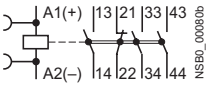
Size S00
Terminal designations according to EN 50011

3TH20 ..-0 contactor relays,
AC and DC operation,
with screw terminals

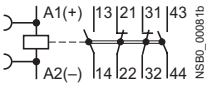
4 NO
Ident. No.: 40E



3 NO + 1 NC
31E

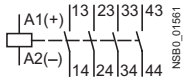


2 NO + 2 NC
22E

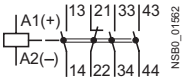


3TH20 ..-3, 3TH20 ..-6, 3TH20 ..-7 contactor relays,
AC and DC operation,
with flat connectors 6.3 mm x 0.8 mm and solder pin connectors

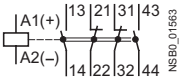
4 NO
Ident. No.: 40E



3 NO + 1 NC
31E

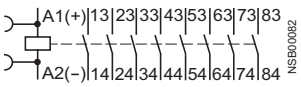


2 NO + 2 NC
22E

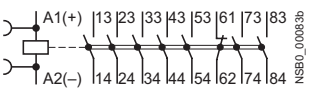


3TH20 40 contactor relays with 3TX4 4 ..-0 auxiliary switch block and
3TH22 contactor relay

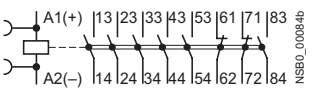
8 NO
Ident. No.: 80E



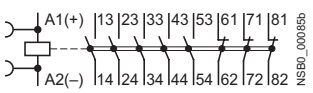
7 NO + 1 NC
71E



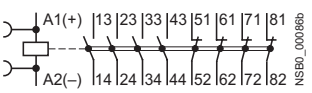
6 NO + 2 NC
62E



5 NO + 3 NC
Ident. No.: 53E

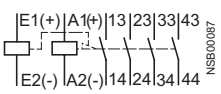


4 NO + 4 NC
44E

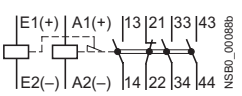


3TH27 latched contactor relays,
AC and DC operation

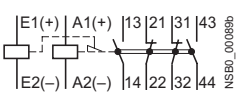
4 NO
Ident. No.: 40E



3 NO + 1 NC
31E



2 NO + 2 NC
22E

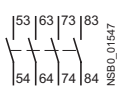


Terminal designations according to EN 50005

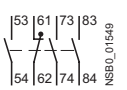
3TX4 4 ..-2 auxiliary switch block

Positively-driven operation is assured likewise for auxiliary switch blocks according to EN 50005 in conjunction with 3TH20 contactor relays (basic units).

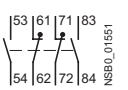
4 NO
Ident. No.: 40



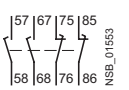
3 NO + 1 NC
31



2 NO + 2 NC
22



2 NO + 2 NC
22U



with make-before-break

2 NO
Ident. No.: 20

1 NO + 1 NC
11

2 NC
02

1 NO + 1 NC
11U

with make-before-break

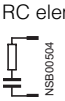
Surge suppressors

Diode

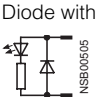
Diode assembly

Varistor

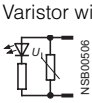
RC element



Diode with LED



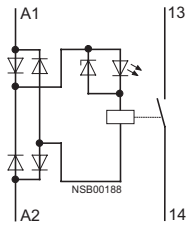
Varistor with LED



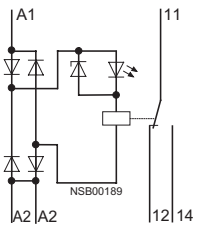
Relay couplers – connection diagrams for 3TX7 002/3TX7 003

Terminal designations according to EN 50005

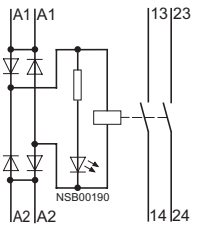
3TX7 002-.A.00
3TX7 002-1AB02
3TX7 002-2AF05
3TX7 003-.A.00



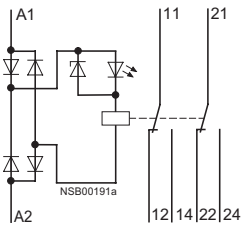
-1B.00
-1B.00



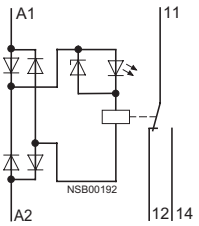
-1CB00
1CB00



-1FB02



-2BF02

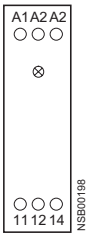


Relay couplers – position of the terminals

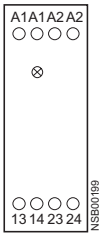
Output coupling links

3TX7 002-1AB0.
3TX7 003-1AB00

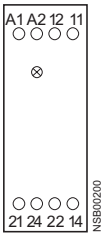
-1B.00
-1B.00



-1CB00
-1CB00



-1FB02



Input coupling links

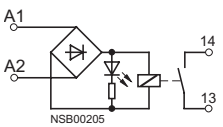
3TX7 002-2A.0.
3TX7 003-2A.0.

-2BF02

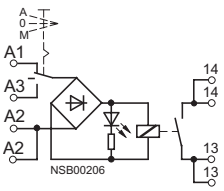
Relay couplers – connection diagrams for 3TX7 004/3TX7 005

Output coupling links

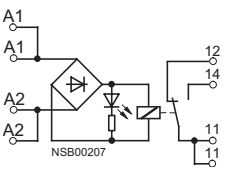
3TX7 00.-1M.00



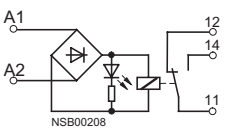
3TX7 00.-1AB10



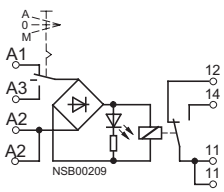
3TX7 00.-1BB00
3TX7 00.-1BF05



3TX7 00.-1L.0.



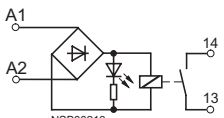
3TX7 00.-1BB10



A = Automatic
0 = Neutral position
M = Manual

Input coupling links

3TX7 00.-2M.02



Project planning aids

Relay couplers – position of the terminals

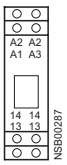
Output coupling links

3TX7 004

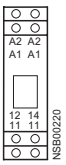
-1M.00

-1L.0.

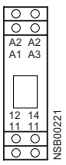
-1AB10



-1B.0.

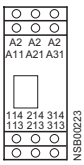


-1BB10

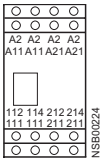


-1CB00

-1HB00



-1GB00



Input coupling links

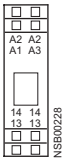
3TX7 004-2M...

3TX7 005

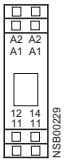
-1M.00

-1L.0.

-1AB10



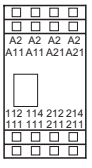
-1BB00



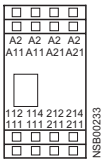
-1BB10

-1CB00

-1HB00



-1GB00

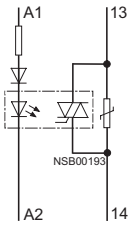


3TX7 005-2M...

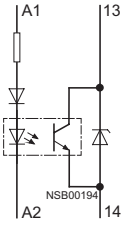
Semiconductor couplers – connection diagrams

Terminal designations according to EN 50005

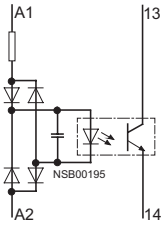
3TX7 002-3AB00



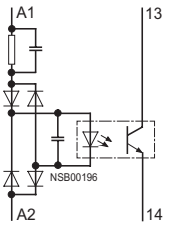
-3AB01



-4AB00



-4AG00



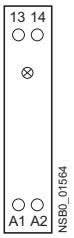
Semiconductor couplers – position of the terminals

Output coupling links

3TX7 002-3AB0.

Input coupling links

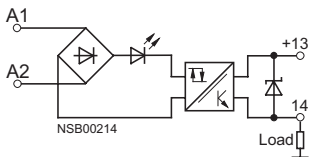
3TX7 002-4A.0.



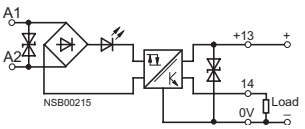
Semiconductor couplers – connection diagrams

Output coupling links

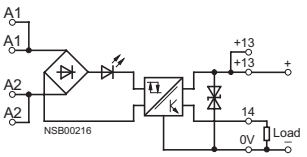
3TX7 00.-3AB04
3TX7 00.-3PB41



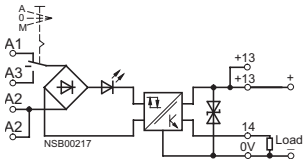
3TX7 00.-3PB54
3TX7 00.-3PG74
3TX7 00.-3PB74



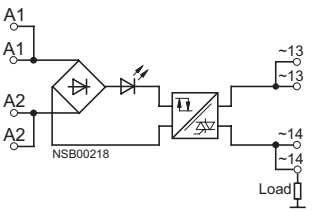
3TX7 00.-3AC04



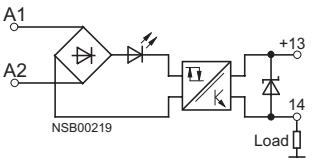
3TX7 00.-3AC14



3TX07 00.-3AC03



Input coupling links
3TX7 00.-4AB04



A= Automatic
0= Neutral position
M = Manual

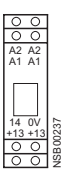
Semiconductor couplers – position of the terminals

Output coupling links

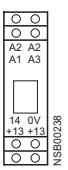
3TX7 004
-3AB04,
-3PB41

-3PB54,
-3PB74,
-3PG74

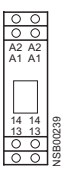
-3AC04



-3AC14



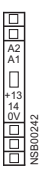
-3AC03



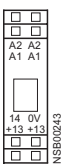
Input coupling links
3TX7 004-4AB04

3TX7 005
-3AB04,
-3PB41

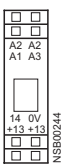
-3PB54,
-3PB74,
-3PG74



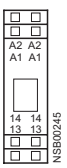
-3AC04



-3AC14



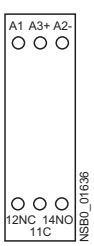
-3AC03



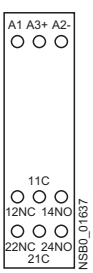
3TX7 005-4AB04

3RS18 coupling relays with industrial housing – position of the terminals

3RS18 00
-.AP00
-.AQ00

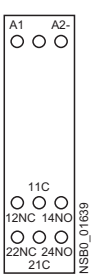


3RS18 00
-.BP00
-.BQ00



3RS18 00
-.HP0.
-.HQ0.

3RS18 00
-.BW00

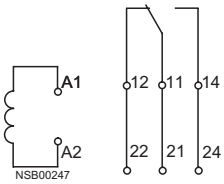


3RS18 00
-.HW0.

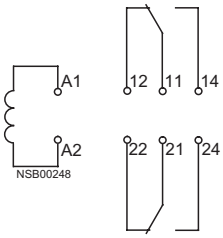
Project planning aids

LZX plug-in relays – relay couplers

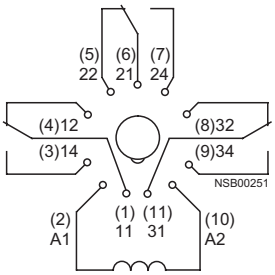
LZX:RT3
1-pole



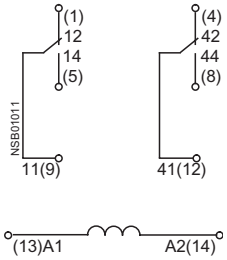
LZX:RT4
2-pole



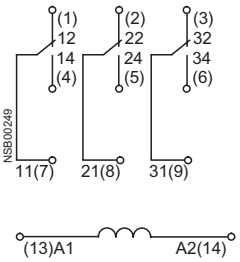
LZX:MT32
3-pole



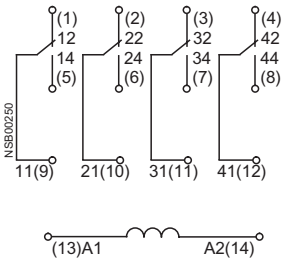
LZX:PT270
2-pole



LZX:PT370
3-pole



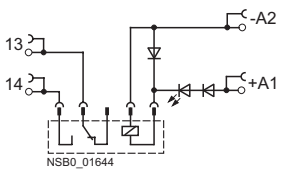
LZX:PT570
4-pole



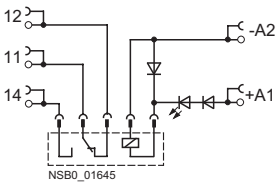
Values in brackets: socket designations.
Without brackets: contact/coil designations.

3TX7 014/3TX7 015 relay couplers with plug-in design – connection diagrams

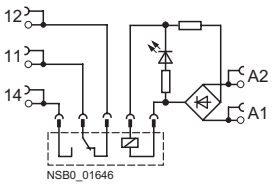
3TX7 01.-1AM00



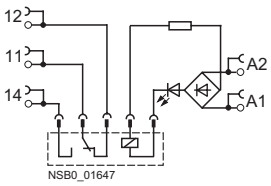
3TX7 01.-1BM0.



3TX7 01.-1BB0.



3TX7 01.-1BE0.
3TX7 01.-1BF0.



3TX7 014/3TX7 015 relay couplers with plug-in design – position of the terminals

3TX7 01.-1AM00

3TX7 01.-1BM0.

3TX7 01.-1BB0.
3TX7 01.-1BE0.
3TX7 01.-1BF0.