

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

Overview

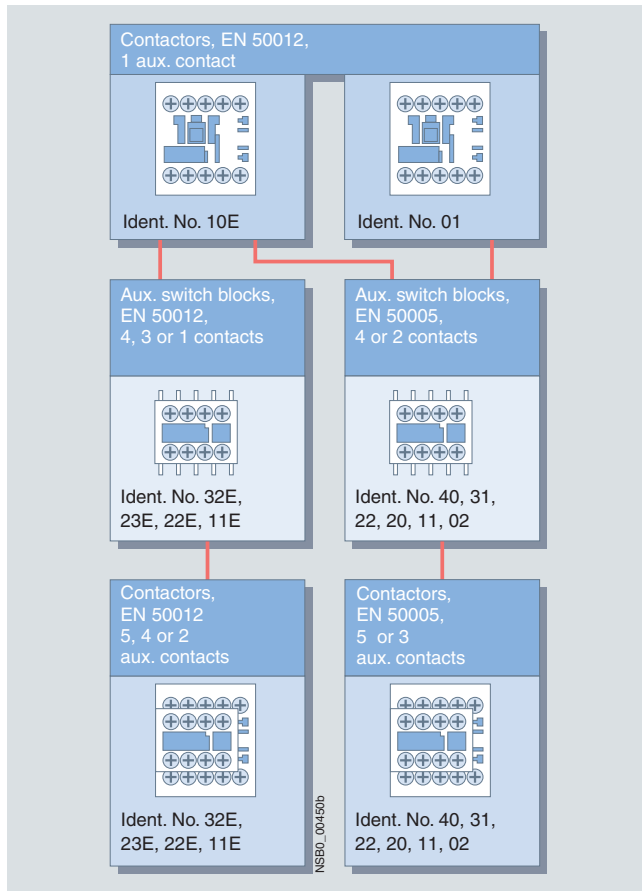
Snap-on auxiliary switch blocks

Various auxiliary switch blocks can be added to the 3RT1 basic units depending on the application:

[Size S00: Contactors 3RT1. 1.](#)

Terminal designations according to EN 50005 or EN 50012

Size S00 contactors have an auxiliary contact integrated in the basic unit.



4-pole auxiliary switch blocks 3RT1 (S00).

Contactors with a NO contact as auxiliary contact (screw or Cage Clamp terminals), identification number 10E, can be expanded into contactors with 2, 4 or 5 auxiliary contacts according to EN 50012 using auxiliary switch blocks. The identification numbers 11E, 22E, 23E and 32E on the auxiliary switch blocks apply to the complete contactors. These auxiliary switch blocks cannot be combined with contactors which have a NC contact in the basic unit (identification number 01) as they are coded.

All contactors of size S00 with one auxiliary contact (identification numbers 10E or 01) and the contactors with 4 main contacts can be expanded into contactors with 3 or 5 auxiliary contacts using auxiliary switch blocks with the identification numbers 40 to 02 (in the case of contactors with 4 main contacts: 2 or 4 auxiliary contacts) according to EN 50005.

The identification numbers on the auxiliary switch blocks apply only to the attached auxiliary switches.

Single- or 2-pole auxiliary switch blocks with only one connection option from above or below are provided for easy and clearly arranged wiring especially for the installation of network access junctions. These auxiliary switch blocks are offered only with screw terminals.

The solid-state compatible 3RH19 11-1NF. . auxiliary switch blocks for contactors of size S00 include 2 enclosed contacts. They are suitable in particular for switching small voltages and currents (hard gold-plated contacts) and for operation in dusty atmospheres. The NC auxiliary contacts are not mirror contacts.

All the previously mentioned auxiliary switch variants can be snap-fitted onto the front of the contactor. The auxiliary switch block has a centrally positioned release lever for disassembly.

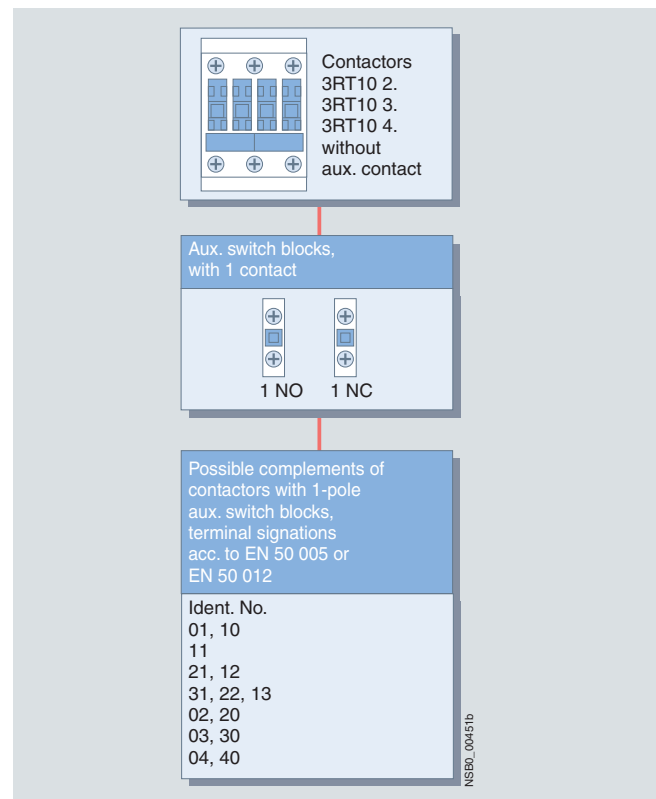
[Sizes S0 to S12: Contactors 3RT1. 2. to 3RT1. 7.](#)

Terminal designations according to EN 50005 or EN 50012

One 4-pole or up to four single-pole auxiliary switch blocks (screw or Cage Clamp terminals) can be snapped on. When the contactors are switched on, the NC contacts are opened first and then the NO contacts are closed.

Also available are 2-pole auxiliary switch blocks (screw terminals) for cable entry from above or below in the design of a quad block (feeder auxiliary switch).

If the installation space is limited in depth, 2-pole auxiliary switch blocks (screw or Cage Clamp terminals) can be attached laterally (on the left or on the right).

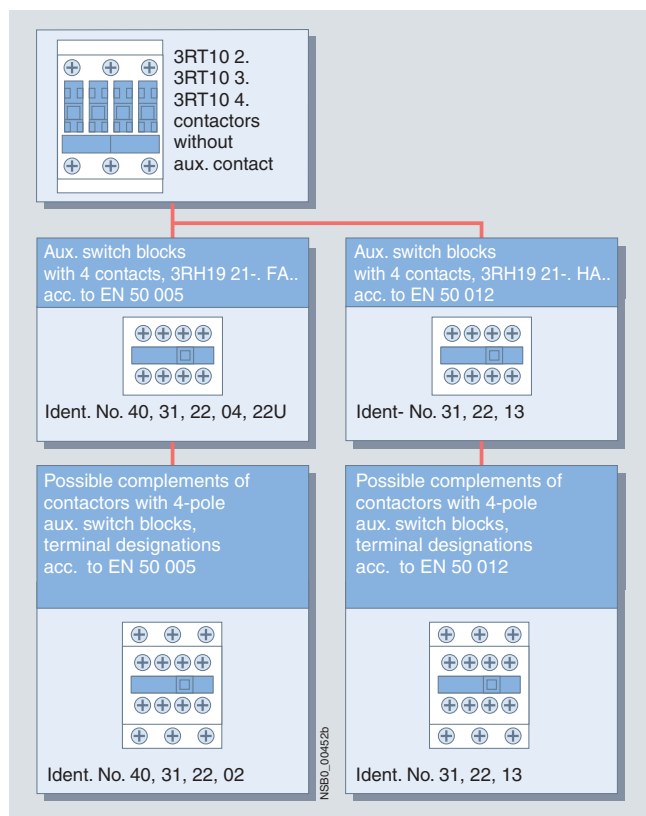


1-pole auxiliary switch blocks for 3RT1 contactors

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For 3RT, 3RH Contactor and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays



4-pole auxiliary switch blocks for 3RT1 contactors

The terminal designations of the single-pole auxiliary switch blocks are comprised of identification numbers (location identifiers) on the basic unit and of function digits on the auxiliary switch blocks.

The terminal designation of the individual auxiliary switch blocks corresponds to EN 50005 or EN 50012, that of the complete contactor with auxiliary switch block 2 NO + 2 NC corresponds to EN 50012.

The auxiliary switch blocks attached to the front can be disassembled with the help of a centrally arranged release lever; the laterally attached auxiliary switch blocks are easy to remove by pressing on the checkered surfaces.

The laterally mountable auxiliary switch blocks according to EN 50012 can be used only when no 4-pole auxiliary switch blocks are snapped onto the front. If single-pole auxiliary switch blocks are used in addition, the location identifiers on the contactor must be noted.

Two enclosed and 2 standard contacts are available with the 3RH19 21-..FE22 solid-state compatible auxiliary switch block, which can be attached to the front. The 3RH19 21-2DE11 laterally mountable switch block contains 2 enclosed contacts (1 NO + 1 NC). The enclosed contacts are suitable in particular for switching small voltages and currents (hard gold-plated contacts) and for operation in dusty atmospheres. The NC auxiliary contacts are mirror contacts.

Sizes S0 and S2

A maximum of 4 auxiliary contacts can be attached; the auxiliary switch blocks used can be of any version. For reasons of symmetry, when two 2-pole laterally mountable auxiliary switch blocks are used, one block must be attached on the right and one on the left.

More auxiliary contacts are permissible with size S2 under certain conditions (please ask).

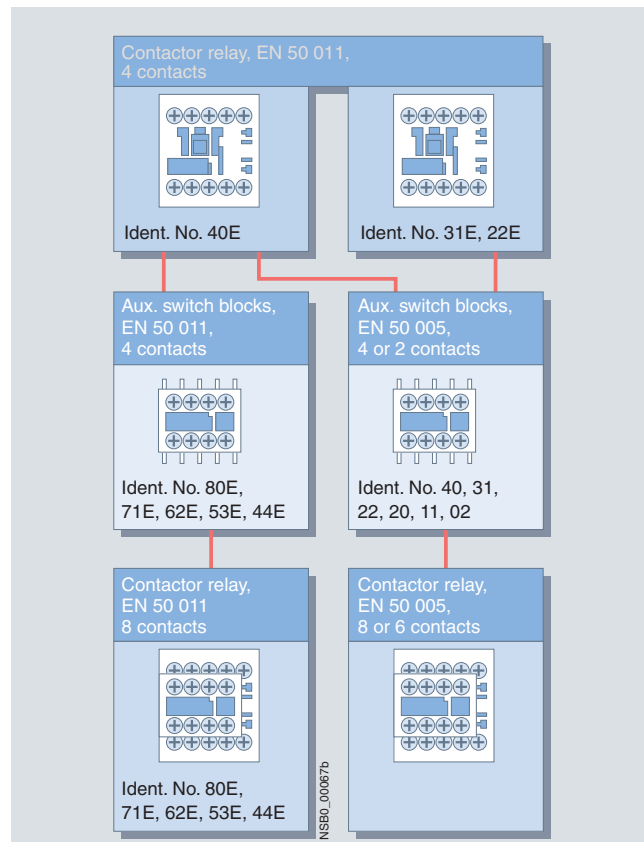
Size S3 to S12

A maximum of 8 auxiliary contacts can be attached; please note the following:

- Of these 8 auxiliary contacts, there must be no more than 4 NC contacts
- Ensure the symmetry of laterally mounted auxiliary switch blocks

3RH1 contactor relays

The 3RH1 contactor relays can be expanded by up to four contacts by the addition of snap-on auxiliary switch blocks.



4-pole auxiliary switch blocks for 3RH1 contactor relays

The contactor relays with 4 contacts according to EN 50011, with the identification number 40E, can be extended with 80E to 44E auxiliary switch blocks to obtain contactor relays with 8 contacts according to EN 50011. The identification numbers 80E to 44E on the auxiliary switch blocks apply to the complete contactors. These auxiliary switch blocks (3RH19 11-1GA..) cannot be combined with contactor relays with identification numbers 31E and 22E; they are coded.

All contactor relays with 4 contacts according to EN 50011, identification numbers 40E to 22E, can be extended with auxiliary switch blocks 40 to 02 to obtain contactor relays with 6 or 8 contacts in accordance with EN 50005. The identification numbers on the auxiliary switch blocks apply only to the attached auxiliary switch blocks.

In addition, fully mounted 3RH12 8-pole contactor relays are available; the mounted 4-pole auxiliary switch block in the 2nd tier is not removable. The terminal designations are according to EN 50011.

These 8-pole versions are built according to special Swiss regulations "SUVA" and are distinguished externally by a red labeling plate.

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For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

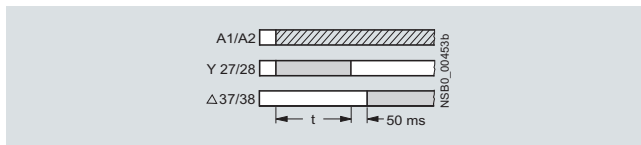
Solid-state time-delay auxiliary switch blocks

The timer module, which is available in the "ON-DELAY" and "OFF-DELAY" versions, allows time-delayed functions up to 100 s (3 distinct delay ranges).

It contains a relay with one NO contact and one NC contact; depending on the version, the relay is switched either after an ON-delay or after an OFF-delay.

The timer module with "WYE-DELTA FUNCTION" is equipped with one delayed and one instantaneous NO contact, with a dead time of 50 ms between the two. The delay time of the NO contact can be adjusted between 1.5 s and 30 s.

Wye-delta function:



The contactor on which the solid-state time-delay auxiliary switch block is mounted operates without a delay.

Size S00

The solid-state time-delay auxiliary switch block is fitted onto the front side of the contactor. The timer module is supplied with power directly by plug-in contacts through the coil terminals of the contactor, in parallel with A1/A2. The timing function is activated by closing the contactor on which the auxiliary switch block is mounted. The OFF-delay version operates without an auxiliary voltage; minimum ON period: 200 ms.

A varistor is integrated in the timer module in order to damp opening surges in the contactor coil.

The solid-state time-delay auxiliary switch block cannot be mounted on size S00 coupling relays.

Sizes S0 to S12

The solid-state time-delay auxiliary switch block is fitted onto the front side of the contactor.

The timer module is supplied with power through two terminals (A1/A2); the time delay of the auxiliary switch block can be activated either by a parallel link to any contactor coil or by any power source.

The OFF-delay version operates without an auxiliary voltage; minimum ON period: 200 ms.

A single-pole auxiliary switch block can be snapped onto the front of the contactor in addition to the timer module.

The timer module has no integrated components for overvoltage damping.

Solid-state time-delay blocks with semiconductor output

The timer module in the "ON-DELAY" and "OFF-DELAY with auxiliary voltage" versions allows time-delayed functions up to 100 s (3 distinct delay ranges). Contactors fitted with a timing relay block close or open after a delay according to the set time.

The ON-delay variant of the timing relay is connected in series with the contactor coil; terminal A1 of this coil must not be connected.

With the OFF-delay variant of the timing relay, the contactor coil is contacted directly through the relay; terminals A1 and A2 of the contactor coil must not be connected.

The timing relays are suitable for both AC and DC operation.

Size S00

The version for size S00 contactors is fitted onto the front of the contactor (with the control supply voltage switched off) and then slid into its latched position; at the same time, the timing relay is activated by means of plug-in contacts to coil terminals A1 and A2 of the contactor. Any contactor coil terminals which are not required are sealed off by means of covers on the enclosure of the timing relay block, to prevent them from being connected inadvertently.

A varistor is integrated in the timer module in order to damp opening surges in the contactor coil.

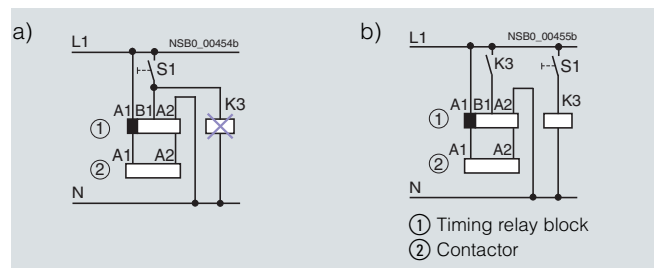
The solid-state, timing relay block cannot be mounted on size S00 coupling relays.

Sizes S0 to S3

The timing relay block for size S0 to S3 contactors is plugged into coil terminals A1 and A2 on top of each contactor; the timing relay is connected both electrically and mechanically by means of pins.

A varistor is integrated in the timer module in order to damp opening surges in the contactor coil.

Configuring note:



The activation of loads parallel to the start input is not permissible when using AC control voltage (see (a) in the circuit diagram).

The OFF-delay timing relay blocks 3RT19 16-2D... / 3RT19 26-2D... have a zero potential start input B1. This means that if there is a parallel load on terminal B1, activation can be simulated with AC voltage. In this case, the additional load (e. g. contactor K3) must be wired according to (b).

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

OFF-delay device for size S00 to S3 contactors

AC and DC operation

IEC 60947, EN 60947.

For screw and snap-on mounting onto 35 mm standard mounting rail. The OFF-delay devices have screw terminals.

The OFF-delay device prevents a contactor from dropping out unintentionally when there is a short-time voltage dip or voltage failure. It supplies a downstream, DC-operated contactor with the necessary energy during a voltage dip, ensuring that the contactor does not trip. The 3RT19 16 OFF-delay devices are specifically designed for operation with the 3RT contactors and 3RH contactor relays of the SIRIUS series.

The OFF-delay device operates without external voltage on a capacitive basis, and can be energized with either AC or DC (24 V version only for DC operation). Voltage matching, which is only necessary with AC operation, is performed using a rectifier bridge.

A contactor opens after a delay when the capacitors of the solenoid coil, built into the OFF-delay device, are switched in parallel. In the event of voltage failures, the capacitors are discharged via the solenoid coil and thereby delay the opening of the contactor.

If the command devices are upstream of the OFF-delay device in the circuit, the OFF-delay takes effect with every opening operation. If the opening operation is downstream of the OFF-delay device, an OFF-delay only applies in the event of failure of the mains voltage.

Operation

In the case of the versions for rated control supply voltages of 110 V and 230 V, either AC voltage or DC voltage can be applied on the line side, whereas the variant for 24 V is designed for DC operation only.

A DC-operated contactor is connected to the output in accordance with the input voltage that is applied.

The mean value of the OFF-delay is approximately 1.5 times the specified minimum time.

Surge suppressors

- Without LED (also for Cage Clamp terminals) size S00, S0, S2, S3, S6 to S12
- With LED (also for Cage Clamp terminals) size S00

All 3RT1 contactors and 3RH1 contactor relays can be retrofitted with RC elements or varistors for damping opening surges in the coil. Diodes or diode assemblies (comprising noise suppression diodes and Zener diodes for short break times) can be used.

The surge suppressors are plugged onto the front of size S00 contactors. Space is provided for them next to a snap-on auxiliary switch block.

With all size S0 to S3 contactors, varistors, RC elements and diode assemblies can be plugged on directly at the coil terminals, either on the top or underneath.

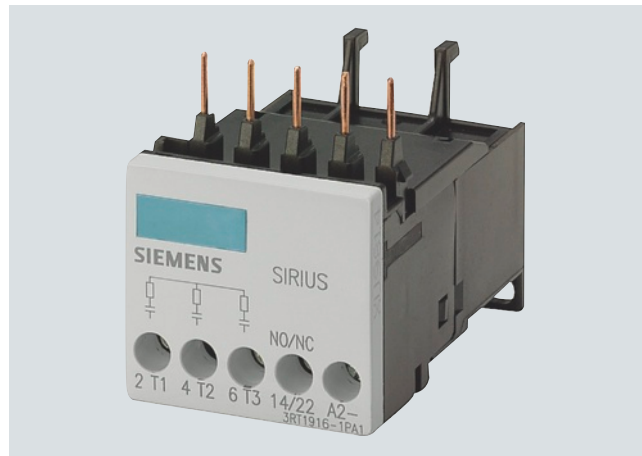
The plug-in direction of the diodes and diode assemblies is determined by a coding device.

Coupling relays are supplied either without overvoltage damping or with a varistor or diode connected as standard, according to the version.

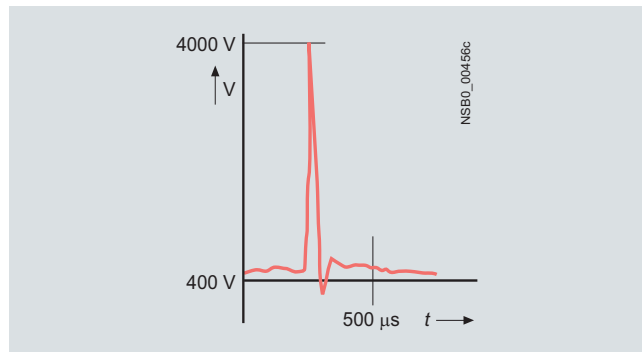
Note:

The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

Electromagnetic interference suppression module, three-phase for size S00 contactors



A so-called counter-e.m.f. (electromotive force) is produced when motors or various inductive loads are turned off. Voltage peaks of up to 4000 V may occur as a result, with a frequency spectrum from 1 kHz to 10 MHz and a rate of voltage variation from 0.1 to 20 V/ns.



Capacitive input to various analog and digital signals makes it necessary to suppress interference in the load circuit.

Reducing contact arcing

The connection between the main current path and the EMC interference suppression module enables contact arcing, which is responsible for contact erosion and the majority of clicking noises, to be reduced; this in turn is conducive to an electromagnetically compatible design.

Higher operational reliability

Since the EMC suppression module achieves a significant reduction in radio-frequency components and the voltage level in three phases, the contact endurance is also improved considerably. This makes an important contribution towards enhancing the reliability and availability of the system as a whole.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

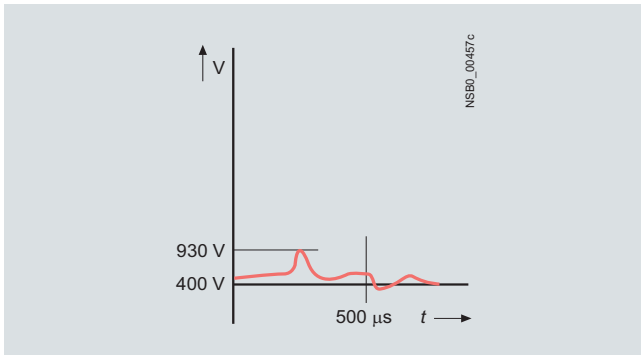
Accessories for 3RT contactors and 3RH contactor relays

Dispensing with fine graduations

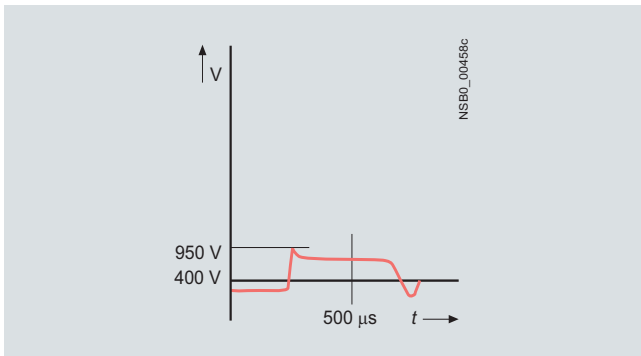
There is no need for fine graduations within each performance class, as smaller motors inherently have a higher inductance, so that one solution for all fixed-speed operating mechanisms up to 5.5 kW is adequate.

Two electrical versions are available:

- The advantages of the RC circuit lie mainly in the reduction in the rate of rise and in its RF damping ability. The selected values ensure effective interference suppression over a wide range.



- The varistor circuit can absorb a high energy level and can also be used for frequencies ranging from 10 to 400 Hz (closed-loop controlled operating mechanisms). There is no limiting below the knee-point voltage, however.



Additional load module

Size S00 for plugging onto the front of the contactors with and without auxiliary switch block

Coupling links for mounting on contactors of sizes S0 to S3

DC operation

IEC 60947 and EN 60947.

The coupling link is suitable for use in any climate. It is finger-safe according to EN 50274. The terminal designations comply with EN 50005.

System-compatible operation with 24 V DC, operating range 17 to 30 V.

Low power consumption in conformity with the technical specifications of the solid-state systems. An LED indicates the switching state.

Surge suppression

The 3RH19 24-1GP11 coupling link has an integrated surge suppressor (varistor) for the contactor coil being switched.

Mounting

The 3RH19 24-1GP11 coupling link is mounted directly on the contactor coil.

Solder pin adapters

The solder pin adapters for the size S00 contactors are available in two versions:

- Solder pin adapter for contactors with one integrated auxiliary contact
- Solder pin adapter for contactors with mounted 4-pole auxiliary switch block

Screw adapters

Plug-on adapters improve the accessibility of the screw connection for size S0 contactors. As a result it is possible to position the screwdriver vertically even when using insulated screwdrivers or power screwdrivers.

Optionally the adapters can be rotated through 90° before mounting.

Sealable covers for sizes S00 to S12

When contactors and contactor relays are used in safety-oriented applications, it must be ensured that it is impossible to operate the contactors manually.

For SIRIUS contactors there are sealable covers available for this purpose as accessories; these prevent accidental manual operation. These are transparent molded-plastic caps with a bracket that enables the contactor to be sealed.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

Selection and ordering data

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101

3RH19 11-1HA..
3RH19 11-1FA..

3RH19 11-2HA..



3RH19 21-1HA..

3RH19 21-2HA..
3RH19 21-2FA..

3RH19 11-1AA..



3RH19 11-1LA..

For contactors	Auxiliary contacts	DT	Screw terminals	Weight per PU approx.	DT	Cage Clamp terminals	Weight per PU approx.
	Ident. No.	Version	Order No.	Price per PU		Order No.	Price per PU
Type	 NO NC NO NC			kg			kg

Auxiliary switch blocks for snapping onto the front according to EN 50012

Size S00

For assembling contactors with 2, 4 or 5 auxiliary contacts

3RT10 1..-1...1,	11 E	--	1	--	--	▶	3RH19 11-1HA01	0.060	▶	3RH19 11-2HA01	0.060
3RT10 1..-2...1	22 E	1	2	--	--	▶	3RH19 11-1HA12	0.060	▶	3RH19 11-2HA12	0.060
Ident. No. 10 E	23 E	1	3	--	--	▶	3RH19 11-1HA13	0.060	▶	3RH19 11-2HA13	0.060
	32 E	2	2	--	--	▶	3RH19 11-1HA22	0.060	▶	3RH19 11-2HA22	0.060

Sizes S0 ... S12¹⁾

4-pole

3RT10 2,	31	3	1	--	--	▶	3RH19 21-1HA31	0.075	▶	3RH19 21-2HA31	0.075
3RT1. 3 ... 3RT1. 7	22	2	2	--	--	▶	3RH19 21-1HA22	0.075	▶	3RH19 21-2HA22	0.075
	13	1	3	--	--	▶	3RH19 21-1HA13	0.075	▶	3RH19 21-2HA13	0.075
	22²⁾	2	2	--	--	▶	3RH19 21-1XA22-0MA0	0.075	D	3RH19 21-2XA22-0MA0	0.075

Auxiliary switch blocks for snapping onto the front according to EN 50005

Size S00

2 or 4-pole auxiliary switch blocks for assembling contactors with 3 or 5 auxiliary contacts

3RT1. 1,	20	2	--	--	--	▶	3RH19 11-1FA20	0.050	▶	3RH19 11-2FA20	0.050
3RH11,	11	1	1	--	--	▶	3RH19 11-1FA11	0.050	▶	3RH19 11-2FA11	0.050
3RH14	02	--	2	--	--	▶	3RH19 11-1FA02	0.050	▶	3RH19 11-2FA02	0.050
	11 U	--	--	1	1	▶	3RH19 11-1FB11	0.050	A	3RH19 11-2FB11	0.050
	40	4	--	--	--	▶	3RH19 11-1FA40	0.060	▶	3RH19 11-2FA40	0.060
	31	3	1	--	--	▶	3RH19 11-1FA31	0.060	▶	3RH19 11-2FA31	0.060
	22	2	2	--	--	▶	3RH19 11-1FA22	0.060	▶	3RH19 11-2FA22	0.060
	22 U	--	--	2	2	▶	3RH19 11-1FC22	0.060	▶	3RH19 11-2FC22	0.060
	11, 11 U	1	1	1	1	▶	3RH19 11-1FB22	0.060	B	3RH19 11-2FB22	0.060

1- and 2-pole auxiliary switch blocks with cable entry from one side

• Cable entry from above

3RT1. 1,	--	1	--	--	--	▶	3RH19 11-1AA10	0.015	--		
3RH11,	--	--	1	--	--	▶	3RH19 11-1AA01	0.015	--		
3RH14	--	1	1	--	--	▶	3RH19 11-1LA11	0.045	--		
	--	2	--	--	--	▶	3RH19 11-1LA20	0.045	--		

• Cable entry from below

3RT1. 1,	--	1	--	--	--	▶	3RH19 11-1BA10	0.015	--		
3RH11,	--	--	1	--	--	▶	3RH19 11-1BA01	0.015	--		
3RH14	--	1	1	--	--	▶	3RH19 11-1MA11	0.045	--		
	--	2	--	--	--	▶	3RH19 11-1MA20	0.045	--		

For multi-unit packing and reusable packaging, see "Appendix" → "Ordering notes".

¹⁾ Exception: 3RT12, 3RT16.

²⁾ With identification numbers 5, 6, 7, 8.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for
3RT contactors and 3RH contactor relays

PU (UNIT, SET, M)= 1
PS* = 1 unit
PG = 101



3RH19 21-1F. .



2RH19 21-2F. .



3RH19 21-1C. .



3RH19 21-2C. .



3RH19 21-1LA. .



3RH19 21-1MA. .

For contactors	Auxiliary contacts	DT	Screw terminals	Weight per PU approx.	DT	Cage Clamp terminals	Weight per PU approx.
Ident. No.	Version		Order No.	Price per PU		Order No.	Price per PU
Type	NO NC NO NC			kg			kg

Auxiliary switch blocks for snapping onto the front according to EN 50005

Sizes S0 to S12¹⁾

4-pole auxiliary switch blocks									
3RT10 2, 3RT1. 3 ... 3RT1. 7	40 31 22 04 22 U	4 3 2 -- --	-- 1 2 4 --	-- -- -- -- 2	-- ▶ ▶ ▶ ▶ 2	3RH19 21-1FA40 3RH19 21-1FA31 3RH19 21-1FA22 3RH19 21-1FA04 3RH19 21-1FC22	0.075 ▶ 0.075 ▶ 0.075 ▶ 0.075 A	3RH19 21-2FA40 3RH19 21-2FA31 3RH19 21-2FA22 3RH19 21-2FA04 3RH19 21-2FC22	0.075 0.075 0.075 0.075
1-pole auxiliary switch blocks to EN 50005 and EN 50012									
3RT1. 2 ... 3RT1. 7	-- -- --	1 -- --	-- 1 --	-- -- 1	-- ▶ ▶ ▶ 1	3RH19 21-1CA10 3RH19 21-1CA01 3RH19 21-1CD10 3RH19 21-1CD01	0.020 ▶ 0.020 ▶ 0.020	3RH19 21-2CA10 3RH19 21-2CA01 -- --	0.020 0.020 --
2-pole auxiliary switch blocks with cable entry from one side									
• Cable entry from above									
3RT1. 2, 3RT1. 3 ... 3RT1. 7	-- -- -- --	1 2 -- --	1 -- 2 --	-- -- -- --	▶ ▶ ▶ ▶	3RH19 21-1LA11 3RH19 21-1LA20 3RH19 21-1LA02	0.075 ▶ 0.075 ▶ 0.075	-- -- -- --	
• Cable entry from below									
3RT1. 2, 3RT1. 3 ... 3RT1. 7	-- -- -- --	1 2 -- --	1 -- 2 --	-- -- -- --	▶ ▶ ▶ ▶	3RH19 21-1MA11 3RH19 21-1MA20 3RH19 21-1MA02	0.075 ▶ 0.075 ▶ 0.075	-- -- -- --	

¹⁾ Exception: 3RT16.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

PU (UNIT, SET, M)= 1
PS* = 1 unit
PG = 101



3RH19 11-1GA..



3RH19 11-2GA..

For contactor relays	Contacts		DT	Screw terminals		Weight per PU approx.	DT	Cage Clamp terminals		Weight per PU approx.
	Ident. No.	Version								
				Order No.	Price per PU			Order No.	Price per PU	
		NO NC				kg				kg

Auxiliary switch blocks for snapping onto the front according to EN 50011

For assembling contactor relays with 8 contacts

3RH11 40, 3RH14 40 (Ident. No. 40E)	80E	4	--	▶	3RH19 11-1GA40	0.060	▶	3RH19 11-2GA40	0.060
	71E	3	1	▶	3RH19 11-1GA31	0.060	▶	3RH19 11-2GA31	0.060
	62E	2	2	▶	3RH19 11-1GA22	0.060	▶	3RH19 11-2GA22	0.060
	53E	1	3	▶	3RH19 11-1GA13	0.060	▶	3RH19 11-2GA13	0.060
	44E	--	4	▶	3RH19 11-1GA04	0.060	▶	3RH19 11-2GA04	0.060

For multi-unit packing and reusable packaging,
see "Appendix" → "Ordering notes".

3RH19 21-1DA11
3RH19 21-1JA113RH19 21-1EA..
3RH19 21-1KA..3RH19 21-2DA11
3RH19 21-2JA113RH19 21-2EA..
3RH19 21-2KA..

For contactors		Auxiliary contacts		DT	Screw terminals			Weight per PU approx.	DT	Cage Clamp terminals			Weight per PU approx.
		Version			Order No.	Price per PU				Order No.	Price per PU		
Type								kg					kg
		NO	NC										

Laterally mountable auxiliary switch blocks according to EN 50012

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 2 ... 3RT1. 7	1	1	▶	3RH19 21-1DA11	0.050	▶	3RH19 21-2DA11	0.050
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Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 4 ... 3RT1. 7	1	1	▶	3RH19 21-1JA11	0.050	▶	3RH19 21-2JA11	0.050
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Laterally mountable auxiliary switch blocks according to EN 50005

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 2 ... 3RT1. 7	2	--	▶	3RH19 21-1EA20	0.050	▶	3RH19 21-2EA20	0.050
	1	1	▶	3RH19 21-1EA11	0.050		--	
	--	2	▶	3RH19 21-1EA02	0.050	▶	3RH19 21-2EA02	0.050

Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 4 ... 3RT1. 7	2	--	▶	3RH19 21-1KA20	0.050	D	3RH19 21-2KA20	0.050
	1	1	▶	3RH19 21-1KA11	0.050		--	
	--	2	▶	3RH19 21-1KA02	0.050	D	3RH19 21-2KA02	0.050

Accessories and Spare Parts

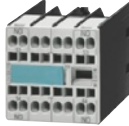
For 3RT, 3RH Contactors and Contactor Relays

Accessories for
3RT contactors and 3RH contactor relays

PU (UNIT, SET, M)= 1
PS* = 1 unit
PG = 101



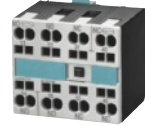
3RH19 11-1NF. .



3RH19 11-2NF. .



3RH19 21-1FE22



3RH19 21-2JE22

3RH19 21-2DE11
3RH19 21-2JE11

For contactors	Version	Contacts	DT	Screw terminals	Weight per PU approx.	DT	Cage Clamp terminals	Weight per PU approx.
	Version			Order No.	Price per PU		Order No.	Price per PU
					kg			kg
Type		NO NO ¹⁾ NC ¹⁾ NC						

Solid-state compatible auxiliary switch blocks for snapping onto the front, according to EN 50005

Size S00

3RT1. 1, 3RH11, 3RH14	For operation in dusty atmosphere and solid-state circuits with rated operational currents I_e /AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. No mirror contacts.	1	--	--	1	▶	3RH19 11-1NF11	0.045 A	3RH19 11-2NF11	0.045
		2	--	--	--	A	3RH19 11-1NF20	0.045 A	3RH19 11-2NF20	0.045
		--	--	--	2		3RH19 11-1NF02	0.045 A	3RH19 11-2NF02	0.045

Sizes S0 ... S12

3RT1. 2 ... 3RT1. 7	For operation in dusty atmosphere and solid-state circuits with rated operational currents I_e /AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts acc. to EN 60947-4-1, Appendix F	1	1	1	1	▶	3RH19 21-1FE22	0.070 B	3RH19 21-2FE22	0.070
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Solid-state compatible auxiliary switch blocks, laterally mountable, according to EN 50012

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 2 ... 3RT1. 7	1 NO + 1 NC solid-state compatible auxiliary switches For operation in dusty atmosphere and solid-state circuits with rated operational currents I_e /AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts acc. to EN 60947-4-1, Appendix F	1	--	--	1	--	▶	3RH19 21-2DE11	0.050
---------------------------	--	---	----	----	---	----	---	-----------------------	-------

Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 4 ... 3RT1. 7	1 NO + 1 NC solid-state compatible auxiliary switches For operation in dusty atmosphere and solid-state circuits with rated operational currents I_e /AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts acc. to EN 60947-4-1, Appendix F	1	--	--	1	--	▶	3RH19 21-2JE11	0.050
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¹⁾ 1 NO + 1 NC standard auxiliary switches:
[see explanations on pages 3/97 and 3/98.](#)

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

For con- tactors	Auxiliary contacts	Rated control supply voltage $U_s^{1)}$	Time setting range t	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		V	s							kg

**Solid-state time-delay auxiliary switch blocks
for snapping onto the front,
terminal designations according to DIN 46199-5**

Size S00



3RT19 16-2...

With ON-delay

3RT1. 1, 3RH11 ²⁾ 3RH14	1 NO + 1 NC	24 AC/DC ³⁾	0.05 ... 1	►	3RT19 16-2EJ11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 16-2EJ21	1	1 unit	101	0.090
			5 ... 100	B	3RT19 16-2EJ31	1	1 unit	101	0.090
		100 ... 127 AC ³⁾	0.05 ... 1	C	3RT19 16-2EC11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 16-2EC21	1	1 unit	101	0.090
			5 ... 100	►	3RT19 16-2EC31	1	1 unit	101	0.090
		200 ... 240 AC ³⁾	0.05 ... 1	D	3RT19 16-2ED11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 16-2ED21	1	1 unit	101	0.090
			5 ... 100	►	3RT19 16-2ED31	1	1 unit	101	0.090

OFF-delay without auxiliary voltage⁴⁾

3RT1. 1, 3RH11 ²⁾ 3RH14	1 NO + 1 NC	24 AC/DC ³⁾	0.05 ... 1	►	3RT19 16-2FJ11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 16-2FJ21	1	1 unit	101	0.090
			5 ... 100	►	3RT19 16-2FJ31	1	1 unit	101	0.090
		100 ... 127 ³⁾	0.05 ... 1	C	3RT19 16-2FK11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 16-2FK21	1	1 unit	101	0.090
			5 ... 100	B	3RT19 16-2FK31	1	1 unit	101	0.090
		200 ... 240 ³⁾	0.05 ... 1	D	3RT19 16-2FL11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 16-2FL21	1	1 unit	101	0.090
			5 ... 100	►	3RT19 16-2FL31	1	1 unit	101	0.090

OFF-delay with auxiliary voltage (varistor integrated)

3RT10 1 3RH11	1 CO	24 AC/DC	0.5 ... 10	B	3RT19 16-2LJ21	1	1 unit	101	0.090
		100 ... 127 AC	0.5 ... 10	B	3RT19 16-2LC21	1	1 unit	101	0.090
		200 ... 240 AC	0.5 ... 10	C	3RT19 16-2LD21	1	1 unit	101	0.090

Wye-delta function (varistor integrated)

3RT10 1 ²⁾	1 NO, delayed + 1 NO, instan- taneous, dead time 50 ms	24 AC/DC ³⁾ 100 ... 127 AC ³⁾ 200 ... 240 AC ³⁾	1.5 ... 30	►	3RT19 16-2GJ51	1	1 unit	101	0.090
			1.5 ... 30	D	3RT19 16-2GC51	1	1 unit	101	0.090
			1.5 ... 30	►	3RT19 16-2GD51	1	1 unit	101	0.090

Sizes S0 ... S12



3RT19 26-2...

With ON-delay

3RT10, 3RT13, 3RT14, 3RT15	1 NO + 1 NC	24 AC/DC ⁵⁾	0.05 ... 1	D	3RT19 26-2EJ11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 26-2EJ21	1	1 unit	101	0.090
			5 ... 100	A	3RT19 26-2EJ31	1	1 unit	101	0.090
		100 ... 127 AC ⁵⁾	0.05 ... 1	C	3RT19 26-2EC11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 26-2EC21	1	1 unit	101	0.090
			5 ... 100	D	3RT19 26-2EC31	1	1 unit	101	0.090
		200 ... 240 AC ⁵⁾	0.05 ... 1	D	3RT19 26-2ED11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 26-2ED21	1	1 unit	101	0.090
			5 ... 100	B	3RT19 26-2ED31	1	1 unit	101	0.090

OFF-delay without auxiliary voltage⁴⁾

3RT10, 3RT13, 3RT14, 3RT15	1 NO + 1 NC	24 AC/DC ⁵⁾	0.05 ... 1	►	3RT19 26-2FJ11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 26-2FJ21	1	1 unit	101	0.090
			5 ... 100	►	3RT19 26-2FJ31	1	1 unit	101	0.090
		100 ... 127 ⁵⁾	0.05 ... 1	D	3RT19 26-2FK11	1	1 unit	101	0.090
			0.5 ... 10	►	3RT19 26-2FK21	1	1 unit	101	0.090
			5 ... 100	C	3RT19 26-2FK31	1	1 unit	101	0.090
		200 ... 240 ⁵⁾	0.05 ... 1	D	3RT19 26-2FL11	1	1 unit	101	0.090
			0.5 ... 10	A	3RT19 26-2FL21	1	1 unit	101	0.090
			5 ... 100	A	3RT19 26-2FL31	1	1 unit	101	0.090

Wye-delta function (varistor integrated)

3RT10, 3RT13, 3RT14, 3RT15	1 NO, delayed + 1 NO, instan- taneous, dead time 50 ms	24 AC/DC ⁵⁾ 100 ... 127 AC ⁵⁾ 200 ... 240 AC ⁵⁾	1.5 ... 30	►	3RT19 26-2GJ51	1	1 unit	101	0.090
			1.5 ... 30	►	3RT19 26-2GC51	1	1 unit	101	0.090
			1.5 ... 30	►	3RT19 26-2GD51	1	1 unit	101	0.090

¹⁾ The AC voltages are valid for 50 Hz and 60 Hz.

²⁾ Cannot be fitted onto coupling relays.

³⁾ The terminals for the control supply voltage are connected to the contactor by the integrated spring contacts of the solid-state time-delay auxiliary switch above it when this switch is mounted.

⁴⁾ Setting of output contacts in as-supplied state not defined (bistable relay). Application of the control supply voltage once results in contact changeover to the correct setting.

⁵⁾ Terminals A1 and A2 for the control supply voltage of the solid-state time-delay auxiliary switch must be connected to the associated contactor by means of connecting cables.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

For contactors	Rated control supply voltage U_s	Time setting range t	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	V	s							kg
Solid-state time-delay blocks with semiconductor output									
Size S00									
 3RT19 16-2C...	3RT1. 1, 3RH11 ¹⁾ 3RH14	For mounting onto the front of contactors							
		• ON-delay (varistor integrated)							
		24 ... 66	0.05 ... 1	B	3RT19 16-2CG11	1	1 unit	101	0.050
			0.5 ... 10	▶	3RT19 16-2CG21	1	1 unit	101	0.050
			5 ... 100	B	3RT19 16-2CG31	1	1 unit	101	0.050
		90 ... 240	0.05 ... 1	D	3RT19 16-2CH11	1	1 unit	101	0.050
		0.5 ... 10	▶	3RT19 16-2CH21	1	1 unit	101	0.050	
		5 ... 100	▶	3RT19 16-2CH31	1	1 unit	101	0.050	
 3RT19 16-2D...	3RT1. 1, 3RH11 ¹⁾ 3RH14	• OFF-delay with auxiliary voltage (varistor integrated)							
		24 ... 66	0.05 ... 1	C	3RT19 16-2DG11	1	1 unit	101	0.060
			0.5 ... 10	B	3RT19 16-2DG21	1	1 unit	101	0.060
			5 ... 100	B	3RT19 16-2DG31	1	1 unit	101	0.060
		90 ... 240	0.05 ... 1	D	3RT19 16-2DH11	1	1 unit	101	0.060
			0.5 ... 10	▶	3RT19 16-2DH21	1	1 unit	101	0.060
		5 ... 100	▶	3RT19 16-2DH31	1	1 unit	101	0.060	
Sizes S0 ... S3									
For mounting onto coil terminals on top of the contactors, only for devices with screw terminals									
 3RT19 26-2C...	3RT10 2, 3RT10 3, 3RT10 4, 3RT13 ²⁾ 3RT15	• ON-delay (varistor integrated)							
		24 ... 66	0.05 ... 1	D	3RT19 26-2CG11	1	1 unit	101	0.050
			0.5 ... 10	B	3RT19 26-2CG21	1	1 unit	101	0.050
			5 ... 100	D	3RT19 26-2CG31	1	1 unit	101	0.050
		90 ... 240	0.05 ... 1	▶	3RT19 26-2CH11	1	1 unit	101	0.050
			0.5 ... 10	▶	3RT19 26-2CH21	1	1 unit	101	0.050
		5 ... 100	▶	3RT19 26-2CH31	1	1 unit	101	0.050	
 3RT19 26-2D...	3RT10 2, 3RT10 3, 3RT10 4, 3RT13 ²⁾ 3RT15	• OFF-delay with auxiliary voltage (varistor integrated)							
		24 ... 66	0.05 ... 1	D	3RT19 26-2DG11	1	1 unit	101	0.050
			0.5 ... 10	D	3RT19 26-2DG21	1	1 unit	101	0.050
			5 ... 100	D	3RT19 26-2DG31	1	1 unit	101	0.050
		90 ... 240	0.05 ... 1	C	3RT19 26-2DH11	1	1 unit	101	0.050
			0.5 ... 10	D	3RT19 26-2DH21	1	1 unit	101	0.050
		5 ... 100	C	3RT19 26-2DH31	1	1 unit	101	0.050	
OFF-delay devices									
 3RT19 16-2B.01	3RT1. 1, 3RT1. 2, 3RH1. ...-1BF40	110 AC/DC		D	3RT19 16-2BK01	1	1 unit	101	0.150
		220/230 AC/DC		D	3RT19 16-2BL01	1	1 unit	101	0.150
		3RT1. 1, 3RT1. 2, 3RH1. ...-1BM40		▶	3RT19 16-2BE01	1	1 unit	101	0.150
		3RT1. 1 ... 3RT1. 4, 3RH1. ...-1BB40	24 DC						
Pneumatic delay block, terminal designation according to EN 50005									
 3RT19 26-2P...	3RT1. 2	For mounting onto the front side of size S0 contactors ³⁾⁴⁾							
		Auxiliary contacts 1 NO and 1 NC							
		• With ON-delay							
		0.1 ... 30	C	3RT19 26-2PA01	1	1 unit	101	0.080	
		1 ... 60	C	3RT19 26-2PA11	1	1 unit	101	0.080	
		• OFF-delay							
	0.1 ... 30	C	3RT19 26-2PR01	1	1 unit	101	0.080		
	1 ... 60	C	3RT19 26-2PR11	1	1 unit	101	0.080		
Mechanical latching blocks									
Sizes S0 and S2									
 3RT19 26-3A.31	3RT1. 2, 3RT1. 3	For mounting on 1 contactor ⁵⁾ , contactor remains in the energized state even after a voltage failure							
		24 AC/DC	A	3RT19 26-3AB31	1	1 unit	101	0.130	
		110 AC/DC	B	3RT19 26-3AF31	1	1 unit	101	0.130	
		230 AC/DC	B	3RT19 26-3AP31	1	1 unit	101	0.130	

1) Cannot be fitted onto coupling relays.

2) Not to be used for 3RT10 4. and 3RT13 4. contactors with $U_s \leq 42$ V.

3) In addition to these, no other auxiliary contacts are permitted.

4) Versions according to DIN VDE 0116 on request.

5) Two front-mounted auxiliary switch blocks can be mounted in addition.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

For contactors	Version	Rated control supply voltage $U_s^{1)}$		DT	Order No. ²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		V AC	V DC							kg

Surge suppressors without LED (also for Cage Clamp terminals)

Size S00



3RT19 16-1DG00

For plugging onto the front side of the contactors with and without auxiliary switch blocks

3RT1.., 3RH1	Varistors	24 ... 48	24 ... 70	▶	3RT19 16-1BB00	1	1 unit	101	0.010
		48 ... 127	70 ... 150	▶	3RT19 16-1BC00	1	1 unit	101	0.010
		127 ... 240	150 ... 250	A	3RT19 16-1BD00	1	1 unit	101	0.010
		240 ... 400	--	▶	3RT19 16-1BE00	1	1 unit	101	0.010
		400 ... 600	--	A	3RT19 16-1BF00	1	1 unit	101	0.010
3RT1.., 3RH1	RC elements	24 ... 48	24 ... 70	▶	3RT19 16-1CB00	1	1 unit	101	0.010
		48 ... 127	70 ... 150	▶	3RT19 16-1CC00	1	1 unit	101	0.010
		127 ... 240	150 ... 250	▶	3RT19 16-1CD00	1	1 unit	101	0.010
		240 ... 400	--	▶	3RT19 16-1CE00	1	1 unit	101	0.010
		400 ... 600	--	▶	3RT19 16-1CF00	1	1 unit	101	0.010
3RT1.., 3RH1	Noise suppression diodes	--	12 ... 250	▶	3RT19 16-1DG00	1	1 unit	101	0.010
3RT1.., 3RH1	Diode assemblies (diode and Zener diode) for DC operation	--	12 ... 250	▶	3RT19 16-1EH00	1	1 unit	101	0.010

Size S0



3RT19 26-1B.00

For fitting onto the coil terminals at top or bottom

3RT1. 2	Varistors	24 ... 48	24 ... 70	▶	3RT19 26-1BB00	1	1 unit	101	0.025
		48 ... 127	70 ... 150	▶	3RT19 26-1BC00	1	1 unit	101	0.025
		127 ... 240	150 ... 250	▶	3RT19 26-1BD00	1	1 unit	101	0.025
		240 ... 400	--	▶	3RT19 26-1BE00	1	1 unit	101	0.025
		400 ... 600	--	B	3RT19 26-1BF00	1	1 unit	101	0.025
3RT1. 2	RC elements	24 ... 48	24 ... 70	▶	3RT19 26-1CB00	1	1 unit	101	0.025
		48 ... 127	70 ... 150	▶	3RT19 26-1CC00	1	1 unit	101	0.025
		127 ... 240	150 ... 250	▶	3RT19 26-1CD00	1	1 unit	101	0.025
		240 ... 400	--	▶	3RT19 26-1CE00	1	1 unit	101	0.025
		400 ... 600	--	B	3RT19 26-1CF00	1	1 unit	101	0.025
3RT1. 2	Diode assembly for DC operation	--	24	▶	3RT19 26-1ER00	1	1 unit	101	0.025
		--	30 ... 250	▶	3RT19 26-1ES00	1	1 unit	101	0.025
		--	24	▶	3RT19 26-1TR00	1	1 unit	101	0.025
		--	30 ... 250	A	3RT19 26-1TS00	1	1 unit	101	0.025
		--	--	--	--	--	--	--	--

¹⁾ Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.

²⁾ For packs of 10 units, the Order No. must be supplemented with "-Z" and the order code "X90".

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

For contactors	Version	Rated control supply voltage $U_s^{1)}$		DT	Order No. ²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		AC operation	DC operation							
Type		V AC	V DC							kg

Surge suppressors without LED (also for Cage Clamp terminals)

Sizes S2 and S3

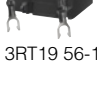
For fitting onto the coil terminals at top or bottom

	3RT1. 3, 3RT1. 4	Varistors	24 ... 48 48 ... 127 127 ... 240 240 ... 400 400 ... 600	24 ... 70 70 ... 150 150 ... 250 --	▶ ▶ ▶ ▶ B	3RT19 26-1BB00 3RT19 26-1BC00 3RT19 26-1BD00 3RT19 26-1BE00 3RT19 26-1BF00	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	101 101 101 101 101	0.025 0.025 0.025 0.025 0.025
3RT19 26-1B.00										
	3RT1. 3 ³⁾ , 3RT1. 4	RC elements	24 ... 48 48 ... 127 127 ... 240 240 ... 400 400 ... 600	24 ... 70 70 ... 150 150 ... 250 --	▶ ▶ ▶ ▶ B	3RT19 36-1CB00 3RT19 36-1CC00 3RT19 36-1CD00 3RT19 36-1CE00 3RT19 36-1CF00	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	101 101 101 101 101	0.040 0.040 0.040 0.040 0.040
3RT19 36-1C.00										
	3RT1. 3, 3RT1. 4	Diode assembly for DC operation								
		• Connectable at the top (e. g. for contactor with overload relay)	24 30 ... 250	▶ ▶		3RT19 36-1ER00 3RT19 36-1ES00	1 1	1 unit 1 unit	101 101	0.025 0.025
		• Connectable at the bottom (e. g. for fuseless load feeders)	24 30 ... 250	▶ B		3RT19 36-1TR00 3RT19 36-1TS00	1 1	1 unit 1 unit	101 101	0.025 0.025

Sizes S6 ... S12

For connecting to withdrawable coil with screw terminals with contactors with

- 3RT1. ...-A conventional operating mechanism
- 3RT1. ...-N conventional operating mechanism

	3RT1. 5, 3RT1. 6, 3RT1. 7	RC elements	24 ... 48	24 ... 70	▶	3RT19 56-1CB00	1	1 unit	101	0.035
			48 ... 127	70 ... 150	▶	3RT19 56-1CC00	1	1 unit	101	0.035
			127 ... 240	150 ... 250	▶	3RT19 56-1CD00	1	1 unit	101	0.035
			240 ... 400	--	▶	3RT19 56-1CE00	1	1 unit	101	0.035
			400 ... 600	--	C	3RT19 56-1CF00	1	1 unit	101	0.035

- ¹⁾ Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.
- ²⁾ For packs of 10 or 5 units "-Z" and order code "X90" must be added to the Order No.
- ³⁾ Mountable only at the top for 3RT1. 3 with AC operation.

For contactors	Version	Rated control supply voltage $U_s^{1)}$		Power consumption of LED at U_s	DT	Order No. ²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		AC operation	DC operation								
Type		V AC	V DC								kg

Surge suppressors with LED (also for Cage Clamp terminals)

Size S00

For plugging onto the front side of the contactors with and without auxiliary switch blocks

	3RT1, 3RH1.	Varistors	24 ... 48	12 ... 24	10 ... 120	▶	3RT19 16-1JJ00	1	1 unit	101	0.010
			48 ... 127	24 ... 70	20 ... 470	▶	3RT19 16-1JK00	1	1 unit	101	0.010
			127 ... 240	70 ... 150	50 ... 700	▶	3RT19 16-1JL00	1	1 unit	101	0.010
			--	150 ... 250	160 ... 950	A	3RT19 16-1JP00	1	1 unit	101	0.010
			--	24 ... 70	20 ... 470	▶	3RT19 16-1LM00	1	1 unit	101	0.010
	3RT1, 3RH1.	Noise suppression diodes	--	50 ... 150	50 ... 700	▶	3RT19 16-1LN00	1	1 unit	101	0.010
			--	150 ... 250	160 ... 950	▶	3RT19 16-1LP00	1	1 unit	101	0.010
			--	--	--	--	--	--	--	--	--

- ¹⁾ Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.
- ²⁾ For packs of 10 or 5 units "-Z" and order code "X90" must be added to the Order No.

Accessories and Spare Parts

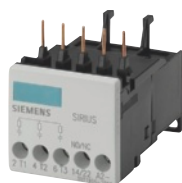
For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type								kg

EMC suppression modules; three-phase ≤ 5.5 kW

Size S00 (for contactors with AC or DC operation)¹⁾



3RT19 16-1PA.

3RT10 1 **RC elements** (3 x 220 Ω/0.22 μF)

Up to 400 V

Up to 575 V

Up to 690 V

►

3RT19 16-1PA1

1

1 unit

101

0.080

A

3RT19 16-1PA2

1

1 unit

101

0.080

C

3RT19 16-1PA3

1

1 unit

101

0.080

3RT10 1

Varistors

Up to 400 V

Up to 575 V

Up to 690 V

A

3RT19 16-1PB1

1

1 unit

101

0.090

B

3RT19 16-1PB2

1

1 unit

101

0.090

D

3RT19 16-1PB3

1

1 unit

101

0.090

Main current path surge suppression modules for 3RT12 vacuum contactors

Size S10 and S12

3RT12

Rated operational voltage

$U_e = 690$ V AC

C

3RT19 66-1PV3

1

1 unit

101

0.400

Rated operational voltage

$U_e = 1000$ V AC

C

3RT19 66-1PV4

1

1 unit

101

0.780

For damping overvoltages and protecting motor windings against multiple re-ignition when switching off induction motors. For connection on the contactor feeder side (2-T1/4-T2/6-T3). For separate installation.

Additional load modules

Size S00 (also for Cage Clamp terminals)

For plugging onto the front side of the contactors with and without auxiliary switch blocks²⁾



3RT19 16-1GA00

3RT1. 1,
3RH1.

For increasing the permissible residual current and for limiting the residual voltage. Ensures safe opening of contactors with direct control via 230 V AC semiconductor outputs of SIMATIC controllers. Also performs the function of an overvoltage damping circuit.
Rated voltage: AC 50/60 Hz, 180 V to 255 V.
Operating range: 0.8 to 1.1 x U_s

►

3RT19 16-1GA00

1

1 unit

101

0.010

Control kits

Size S00



3RK1 903-0CA00

3RT1. 1,
3RH1.

For manual operation of the contactor con- A
tacts for start-up and service³⁾

3RK1 903-0CA00

1

1 unit

121

0.015

¹⁾ See also description on page 3/100.

²⁾ For packs of 10 units, the Order No. must be supplemented with "-Z" and the order code "**X90**".

³⁾ See "Load Feeders and Motor Starters" → "ET 200S, 3RK1 903-0CA00 Motor Starters".

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type								kg

Coupling links for control by PLC

Sizes S0 ... S3



3RH19 24-1GP11

3RT1 . 2,
3RT1 . 3,
3RT1 . 4

For mounting onto the coil terminals of the contactors

Operating range 17 ... 30 V DC
Power consumption: 0.5 W at 24 V DC
Permissible residual current of the electronics (with 0 signal): 2.5 mA

Rated operational current I_e :

- AC-15/AC-14 at 230 V: 3 A
- DC-13 at 230 V: 0.1 A

With LED for indicating switching state.
With integrated varistor for damping opening surges.

▶ 3RH19 24-1GP11

1 1 unit 101 0.060

LED modules for indicating the contactor function (also for Cage Clamp terminals)

Sizes S0 ... S12¹⁾

3RT19 26-1QT00
mounted to contactor

3RT1 . 2,
3RT1 . 3,
3RT1 . 4

For snapping into the location hole of an inscription label on the front of a contactor either directly on the contactor or on the front auxiliary switch.

The LED module is connected to coil terminals A1 and A2 of the contactor and indicates its energized state. Yellow LED.

Rated voltage:
24 ... 240 V AC/DC polarized.
(1 pack = 5 units)

B 3RT19 26-1QT00

1 5 units 101 0.010

Auxiliary terminals, 3-pole

Size S3



3RT19 46-4F

3RT10 4.

For connection of auxiliary and control cables (0.5 to 2.5 mm²) to the main conductor connections (for one side)

B 3RT19 46-4F

1 1 unit 101 0.035

Connection modules for contactors with screw terminals

Size S00, S0



3RT19 26-4RD01

3RT1 . 1,
3RT1 . 2,
3RH1 .

Adapters for contactors

Ambient temperature $T_{U,max} = 60\text{ °C}$

Size S00,
rated operational current I_e
at AC-3/400 V: 20 A

Size S0,
rated operational current I_e
at AC-3/400 V: 25 A

Plugs for contactors

Size S00, S0

Screw terminals



B 3RT19 16-4RD01

1 1 unit 101 0.020

B 3RT19 26-4RD01

1 1 unit 101 0.200

B 3RT19 00-4RE01

1 1 unit 101 0.025



3RT19 00-4RE01

Solder pin adapters for contactors

Size S00



3RT19 16-4KA1

3RT1 . 1,
3RH11

Assembly kit for soldering contactors onto a printed circuit board.
For 1 contactor, 1 set is required.

A 3RT19 16-4KA1

1 4 units 101 0.030

¹⁾ For sizes S6 ... S12 the connecting leads have to be extended.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type								kg

Solder pin adapters for contactors with mounted 4-pole auxiliary switch block

Size S00

3RT1. 1,
3RH11

Assembly kit for soldering contactors with an auxiliary switch block onto a printed circuit board.
For 1 contactor, 1 set is required.

B

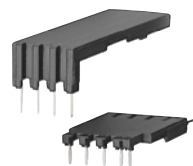
3RT19 16-4KA2

1

4 units

101

0.070



3RT19 16-4KA2

Screw adapters with screw or Cage Clamp terminals

Size S0

3RT1. 2

Screw adapters for easy screw fixing
2 units required per contactor
(1 pack contains 10 sets for 10 contactors)

C

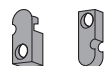
3RT19 26-4P

1

10 units

101

0.010



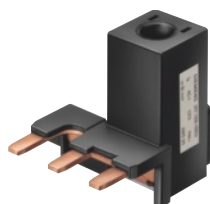
NSB0_01470
3RT19 26-4P



3RT19 16-4BB31



3RT19 16-4BB41



3RT19 36-4BB31



3RT19 56-4BA31

Size	For contactors	Max. conductor cross-sections	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		mm ²							kg

Links for paralleling

3-pole, with connection terminal¹⁾²⁾

S00	3RT10 1	25	►	3RT19 16-4BB31	1	1 unit	101	0.015
S0	3RT10 2	35, stranded	►	3RT19 26-4BB31	1	1 unit	101	0.020
S2	3RT10 3	95	►	3RT19 36-4BB31	1	1 unit	101	0.100

3-pole, with through-hole (star jumpers)¹⁾²⁾

S3	3RT10 4, 3RT14 4	185	►	3RT19 46-4BB31	1	1 unit	101	0.200
S6	3RT1. 5	--	►	3RT19 56-4BA31	1	1 unit	101	0.160
S10/S12	3RT1. 6, 3RT1. 7	--	►	3RT19 66-4BA31	1	1 unit	101	0.500

4-pole, with connection terminal¹⁾²⁾

S00	3RT1. 1	25	C	3RT19 16-4BB41	1	1 unit	101	0.015
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¹⁾ The links for paralleling can be reduced by one pole.

²⁾ Sizes S00 to S2: The links for paralleling are insulated.
Size S3: A cover plate is included for touch protection. (Can only be used when the box terminal is removed.)
Sizes S6 to S12: The 3RT19 56-4EA1 (for S6) or 3RT19 66-4EA1 (for S10 and S12) cover can be used for touch protection.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type							kg

Box terminal blocks



3RT19 5.-4G

S6	3RT1. 5 (3RB20 5)	For round and ribbon cables¹⁾						
		Up to 70 mm ² ²⁾	►	3RT19 55-4G	1	1 unit	101	0.230
		Up to 120 mm ²	►	3RT19 56-4G	1	1 unit	101	0.260
		Auxiliary conductor connection for box terminals	B	3TX7 500-0A	1	1 unit	101	0.010
S10/S12	3RT1. 6, 3RT1. 7 (3RB20 6, 3RB21 6)	Up to 240 mm ² With auxiliary conductor connection	►	3RT19 66-4G	1	1 unit	101	0.676

Covers



3RT19 36-4EA2

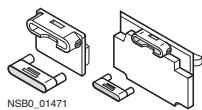
Terminal covers for box terminals								
Additional touch protection for fitting to box terminals (2 units per contactor required)								
S2	3RT10 3	--	►	3RT19 36-4EA2	1	1 unit	101	0.020
	3RT13 3, 3RT15 3	For 4-pole contactors	B	3RT19 36-4EA4	1	1 unit	101	0.020
S3	3RT10 4, 3RT14 4	--	►	3RT19 46-4EA2	1	1 unit	101	0.025
	3RT13 4	For 4-pole contactors	B	3RT19 46-4EA4	1	1 unit	101	0.025
S6	3RT1. 5	Length: 25 mm	►	3RT19 56-4EA2	1	1 unit	101	0.030
S10/S12	3RT1. 6, 3RT1. 7	Length: 30 mm	►	3RT19 66-4EA2	1	1 unit	101	0.040



3RT19 46-4EA1

Terminal covers for cable lugs and busbar connection³⁾								
For complying with the phase clearances and as touch protection if box terminal is removed ⁴⁾ (2 units per contactor required)								
S3	3RT10 4, 3RT14 4	--	►	3RT19 46-4EA1	1	1 unit	101	0.040
S6	3RT1. 5	Length: 100 mm	►	3RT19 56-4EA1	1	1 unit	101	0.070
S10/S12	3RT1. 6, 3RT1. 7	Length: 120 mm	►	3RT19 66-4EA1	1	1 unit	101	0.130
For busbar cover between contactor and 3RB2. overload relay or wiring module for contactor assemblies								
S6	3RT1. 5	Length: 27 mm	►	3RT19 56-4EA3	1	1 unit	101	0.020
S10/S12⁵⁾	3RT1. 6, 3RT1. 7	Length: 42 mm	►	3RT19 66-4EA3	1	1 unit	101	0.060
For busbar cover of the flat line connectors for reversing and wye-delta assemblies								
S6	3RT1. 5	Length: 38 mm	►	3RT19 56-4EA4	1	1 unit	101	0.030

Sealable covers



3RT19 .6-4MA10

S00	3RT1. 1, 3RH1. ⁶⁾	Sealable cover for preventing manual operation	A	3RT19 16-4MA10	1	5 units	101	0.010
S0 ... S12	3RT1. 2 ⁶⁾ , 3RT1. 7 ⁶⁾	1 unit required per contactor	B	3RT19 26-4MA10	1	5 units	101	0.010

¹⁾ Connectable cross-sections of the contactors can be found in the "Technical specifications" (see note on Technical Information on page 3/1).

²⁾ As standard for 3RT10 54-1 contactor (55 kW).

³⁾ Also fits on contactors S6 ... S12 with box terminals.

⁴⁾ Read the note on connectable cross-sections in the "Technical specifications" (see note on Technical Information on page 3/1).

⁵⁾ The 3RT19 66-4EA3 cover is required in addition for use in contactor assemblies (reversing/wye-delta).

⁶⁾ Exception: contactors and contactor relays auxiliary switch block mounted onto the front.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT contactors and 3RH contactor relays

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Insulation stop for securely holding back the conductor insulation on conductors up to 1 mm² for contactors with Cage Clamp terminals							
 3RT19 16-4JA02	B	3RT19 16-4JA02		1	20 units	101	0.010
Insulation stop strip can be inserted in cable entry of Cage Clamp terminals (2 strips per contactor required, can be removed in pairs) For all SIRIUS devices with Cage Clamp terminals, up to 2.5 mm ² conductor cross-section.							
Tools for opening Cage Clamp terminals							
 8WA2 880	C	8WA2 880		1	1 unit	041	0.034
For all SIRIUS devices with Cage Clamp terminals, up to 2.5 mm ² conductor cross-section. <u>Not suitable for devices with removable terminal</u> Length: approx. 175 mm; 3.5 x 0.5, green; partially insulated							
	C	8WA2 803		1	1 unit	041	0.024
Length: approx. 175 mm; 3.5 x 0.5; green							
Blank labels							
 3RT19 00-1SB10	D	3RT19 00-1SB10		100	816 units	101	0.100
	C	3RT19 00-1SB20		100	340 units	101	0.200
Unit labeling plates for "SIRIUS" • 10 mm x 7 mm, pastel turquoise • 20 mm x 7 mm, pastel turquoise							
	D	3RT19 00-1SB60		100	3060 units	101	0.100
	C	3RT19 00-1SD60		100	3060 units	101	0.100
Labels for sticking for "SIRIUS" • 19 mm x 6 mm, pastel turquoise • 19 mm x 6 mm, zinc/yellow							
Computer labeling system For individual inscription of unit labeling plates							
Obtainable from: murrplastik Systemtechnik GmbH							

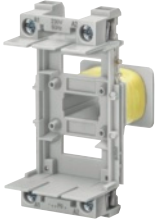
Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

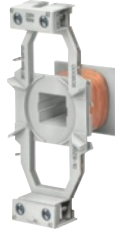
Spare parts for
3RT contactors and 3RH contactor relays

Selection and ordering data

PU (UNIT, SET, M)= 1
PS* = 1 unit
PG = 101



3RT19 24-5A.01



3RT19 34-5A.01



3RT19 24-5A.02

For contactors		Rated control supply voltage U_s			DT	Screw terminals	Weight per PU approx.	DT	Cage Clamp terminals	Weight per PU approx.
		50 Hz	50/60 Hz	60 Hz		Order No.	Price per PU		Order No.	Price per PU
Size	Type	V	V	V			kg			kg
Solenoid coils · AC operation										
S0	3RT10 2..	24	--	--	►	3RT19 24-5AB01	0.100 B		3RT19 24-5AB02	0.100
	3RT13 2..	42	--	--	B	3RT19 24-5AD01	0.100 C		3RT19 24-5AD02	0.100
	3RT15 2..	48	--	--	A	3RT19 24-5AH01	0.100 B		3RT19 24-5AH02	0.100
		110	--	--	►	3RT19 24-5AF01	0.100 B		3RT19 24-5AF02	0.100
		230	--	--	►	3RT19 24-5AP01	0.100 B		3RT19 24-5AP02	0.100
		400	--	--	►	3RT19 24-5AV01	0.100 C		3RT19 24-5AV02	0.100
		--	24	--	►	3RT19 24-5AC21	0.100 B		3RT19 24-5AC22	0.100
		--	42	--	B	3RT19 24-5AD21	0.100 C		3RT19 24-5AD22	0.100
		--	48	--	B	3RT19 24-5AH21	0.100 C		3RT19 24-5AH22	0.100
		--	110	--	►	3RT19 24-5AG21	0.100 B		3RT19 24-5AG22	0.100
		--	220	--	B	3RT19 24-5AN21	0.100 B		3RT19 24-5AN22	0.100
		--	230	--	B	3RT19 24-5AL21	0.100 B		3RT19 24-5AL22	0.100
		110	--	120	B	3RT19 24-5AK61	0.100 B		3RT19 24-5AK62	0.100
	220	--	240		B	3RT19 24-5AP61	0.100 C		3RT19 24-5AP62	0.100
		--	100	110	B	3RT19 24-5AG61	0.100 C		3RT19 24-5AG62	0.100
		--	200	220	B	3RT19 24-5AN61	0.100 C		3RT19 24-5AN62	0.100
		--	400	440	B	3RT19 24-5AR61	0.100 C		3RT19 24-5AR62	0.100
S2	3RT10 34	24	--	--	B	3RT19 34-5AB01	0.120 B		3RT19 34-5AB02	0.120
		42	--	--	B	3RT19 34-5AD01	0.120 B		3RT19 34-5AD02	0.120
		48	--	--	B	3RT19 34-5AH01	0.120 B		3RT19 34-5AH02	0.120
		110	--	--	B	3RT19 34-5AF01	0.120 B		3RT19 34-5AF02	0.120
		230	--	--	A	3RT19 34-5AP01	0.120 B		3RT19 34-5AP02	0.120
		400	--	--	C	3RT19 34-5AV01	0.120 B		3RT19 34-5AV02	0.120
		--	24	--	B	3RT19 34-5AC21	0.120 B		3RT19 34-5AC22	0.120
		--	42	--	B	3RT19 34-5AD21	0.120 B		3RT19 34-5AD22	0.120
		--	48	--	B	3RT19 34-5AH21	0.120 B		3RT19 34-5AH22	0.120
		--	110	--	C	3RT19 34-5AG21	0.120 B		3RT19 34-5AG22	0.120
		--	220	--	C	3RT19 34-5AN21	0.120 B		3RT19 34-5AN22	0.120
		--	230	--	C	3RT19 34-5AL21	0.120 B		3RT19 34-5AL22	0.120
		110	--	120	B	3RT19 34-5AK61	0.120 B		3RT19 34-5AK62	0.120
	220	--	240		B	3RT19 34-5AP61	0.120 B		3RT19 34-5AP62	0.120
		--	100	110	B	3RT19 34-5AG61	0.120 B		3RT19 34-5AG62	0.120
		--	200	220	B	3RT19 34-5AN61	0.120 B		3RT19 34-5AN62	0.120
		--	400	440	B	3RT19 34-5AR61	0.120 B		3RT19 34-5AR62	0.120
	3RT10 35,	24	--	--	B	3RT19 35-5AB01	0.120 B		3RT19 35-5AB02	0.120
	3RT10 36,	42	--	--	B	3RT19 35-5AD01	0.120 B		3RT19 35-5AD02	0.120
	3RT13 3..,	48	--	--	B	3RT19 35-5AH01	0.120 B		3RT19 35-5AH02	0.120
	3RT15 3..	110	--	--	►	3RT19 35-5AF01	0.120 B		3RT19 35-5AF02	0.120
		230	--	--	►	3RT19 35-5AP01	0.120 B		3RT19 35-5AP02	0.120
		400	--	--	C	3RT19 35-5AV01	0.120 B		3RT19 35-5AV02	0.120
		--	24	--	B	3RT19 35-5AC21	0.120 B		3RT19 35-5AC22	0.120
		--	42	--	B	3RT19 35-5AD21	0.120 B		3RT19 35-5AD22	0.120
		--	48	--	B	3RT19 35-5AH21	0.120 B		3RT19 35-5AH22	0.120
		--	110	--	B	3RT19 35-5AG21	0.120 B		3RT19 35-5AG22	0.120
		--	220	--	B	3RT19 35-5AN21	0.120 B		3RT19 35-5AN22	0.120
		--	230	--	B	3RT19 35-5AL21	0.120 B		3RT19 35-5AL22	0.120
		110	--	120	B	3RT19 35-5AK61	0.120 B		3RT19 35-5AK62	0.120
	220	--	240		B	3RT19 35-5AP61	0.120 B		3RT19 35-5AP62	0.120
		--	100	110	B	3RT19 35-5AG61	0.120 B		3RT19 35-5AG62	0.120
		--	200	220	B	3RT19 35-5AN61	0.120 B		3RT19 35-5AN62	0.120
		--	400	440	C	3RT19 35-5AR61	0.120 B		3RT19 35-5AR62	0.120

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT contactors and 3RH contactor relays

PU (UNIT, SET, M)= 1
PS* = 1 unit
PG = 101



3RT19 44-5A.01



3RT19 45-5A.01



3RT19 45-5A.02



3RT19 44-5B.42

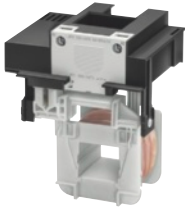
For contactors		Rated control supply voltage U_s				DT	Screw terminals			Weight per PU approx.	DT	Cage Clamp terminals			Weight per PU approx.
		AC													
		50 Hz	50/60 Hz	60 Hz	DC		Order No.		Price per PU			Order No.		Price per PU	
Size	Type	V	V	V	V					kg					kg
Solenoid coils · AC operation															
S3	3RT10 44	24	--	--	--	B	3RT19 44-5AB01		0.190	B	3RT19 44-5AB02		0.190		
		42	--	--	--	B	3RT19 44-5AD01		0.190	B	3RT19 44-5AD02		0.190		
		48	--	--	--	B	3RT19 44-5AH01		0.190	B	3RT19 44-5AH02		0.190		
		110	--	--	--	B	3RT19 44-5AF01		0.190	B	3RT19 44-5AF02		0.190		
		230	--	--	--	B	3RT19 44-5AP01		0.190	B	3RT19 44-5AP02		0.190		
		400	--	--	--	B	3RT19 44-5AV01		0.190	B	3RT19 44-5AV02		0.190		
		--	24	--	--	B	3RT19 44-5AC21		0.190	B	3RT19 44-5AC22		0.190		
		--	42	--	--	B	3RT19 44-5AD21		0.190	B	3RT19 44-5AD22		0.190		
		--	48	--	--	B	3RT19 44-5AH21		0.190	B	3RT19 44-5AH22		0.190		
		--	110	--	--	B	3RT19 44-5AG21		0.190	B	3RT19 44-5AG22		0.190		
		--	220	--	--	B	3RT19 44-5AN21		0.190	B	3RT19 44-5AN22		0.190		
		--	230	--	--	B	3RT19 44-5AL21		0.190	B	3RT19 44-5AL22		0.190		
	3RT10 45, 3RT10 46, 3RT13 4., 3RT14 46, 3RT15 4.	110	--	120	--	C	3RT19 44-5AK61		0.190	B	3RT19 44-5AK62		0.190		
		220	--	240	--	B	3RT19 44-5AP61		0.190	B	3RT19 44-5AP62		0.190		
		--	100	110	--	B	3RT19 44-5AG61		0.190	B	3RT19 44-5AG62		0.190		
		--	200	220	--	B	3RT19 44-5AN61		0.190	B	3RT19 44-5AN62		0.190		
		--	400	440	--	B	3RT19 44-5AR61		0.190	B	3RT19 44-5AR62		0.190		
		24	--	--	--	B	3RT19 45-5AB01		0.190	B	3RT19 45-5AB02		0.190		
		42	--	--	--	B	3RT19 45-5AD01		0.190	B	3RT19 45-5AD02		0.190		
		48	--	--	--	B	3RT19 45-5AH01		0.190	B	3RT19 45-5AH02		0.190		
		110	--	--	--	B	3RT19 45-5AF01		0.190	B	3RT19 45-5AF02		0.190		
		230	--	--	--	► B	3RT19 45-5AP01		0.190	B	3RT19 45-5AP02		0.190		
		400	--	--	--	C	3RT19 45-5AV01		0.190	B	3RT19 45-5AV02		0.190		
		--	24	--	--	B	3RT19 45-5AC21		0.190	B	3RT19 45-5AC22		0.190		
	--	42	--	--	B	3RT19 45-5AD21		0.190	B	3RT19 45-5AD22		0.190			
	--	48	--	--	B	3RT19 45-5AH21		0.190	B	3RT19 45-5AH22		0.190			
	--	110	--	--	B	3RT19 45-5AG21		0.190	B	3RT19 45-5AG22		0.190			
	--	220	--	--	B	3RT19 45-5AN21		0.190	B	3RT19 45-5AN22		0.190			
	--	230	--	--	B	3RT19 45-5AL21		0.190	B	3RT19 45-5AL22		0.190			
	110	--	120	--	B	3RT19 45-5AK61		0.190	B	3RT19 45-5AK62		0.190			
	220	--	240	--	B	3RT19 45-5AP61		0.190	B	3RT19 45-5AP62		0.190			
	--	100	110	--	B	3RT19 45-5AG61		0.190	B	3RT19 45-5AG62		0.190			
	--	200	220	--	C	3RT19 45-5AN61		0.190	B	3RT19 45-5AN62		0.190			
	--	400	440	--	B	3RT19 45-5AR61		0.190	B	3RT19 45-5AR62		0.190			
Solenoid coils · DC operation															
S2	3RT10 3.,	--	--	--	24	B	3RT19 34-5BB41		0.650	B	3RT19 34-5BB42		0.650		
	3RT13 3.,	--	--	--	42	B	3RT19 34-5BD41		0.650	C	3RT19 34-5BD42		0.650		
	3RT15 3.	--	--	--	48	B	3RT19 34-5BW41		0.650	B	3RT19 34-5BW42		0.650		
	--	--	--	--	60	B	3RT19 34-5BE41		0.650	B	3RT19 34-5BE42		0.650		
	--	--	--	--	110	B	3RT19 34-5BF41		0.650	B	3RT19 34-5BF42		0.650		
	--	--	--	--	125	B	3RT19 34-5BG41		0.650	C	3RT19 34-5BG42		0.650		
	--	--	--	--	220	B	3RT19 34-5BM41		0.650	B	3RT19 34-5BM42		0.650		
	--	--	--	--	230	B	3RT19 34-5BP41		0.650	B	3RT19 34-5BP42		0.650		
S3	3RT10 4.,	--	--	--	24	B	3RT19 44-5BB41		1.000	B	3RT19 44-5BB42		1.000		
	3RT13 4.,	--	--	--	42	C	3RT19 44-5BD41		1.000	B	3RT19 44-5BD42		1.000		
	3RT14 4.,	--	--	--	48	B	3RT19 44-5BW41		1.000	B	3RT19 44-5BW42		1.000		
	3RT15 4.	--	--	--	60	B	3RT19 44-5BE41		1.000	B	3RT19 44-5BE42		1.000		
	--	--	--	--	110	B	3RT19 44-5BF41		1.000	B	3RT19 44-5BF42		1.000		
	--	--	--	--	125	B	3RT19 44-5BG41		1.000	B	3RT19 44-5BG42		1.000		
	--	--	--	--	220	B	3RT19 44-5BM41		1.000	B	3RT19 44-5BM42		1.000		
	--	--	--	--	230	B	3RT19 44-5BP41		1.000	B	3RT19 44-5BP42		1.000		

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for
3RT contactors and 3RH contactor relays

PU (UNIT, SET, M)= 1
PS* = 1 unit
PG = 101



3RT19 55-5A...

For contactors		Rated control supply voltage $U_{s \min} \dots U_{s \max}$		DT	Screw terminals			Weight per PU approx.	DT	Cage Clamp terminals			Weight per PU approx.
Size	Type	V AC/DC			Order No.		Price per PU	kg		Order No.		Price per PU	kg
Withdrawable coils													
Conventional operating mechanisms													
S6	3RT10 5, 3RT14 5	23 ... 26	B	3RT19 55-5AB31		0.650	B	3RT19 55-5AB32		0.650			
		42 ... 48	B	3RT19 55-5AD31		0.650	B	3RT19 55-5AD32		0.650			
		110 ... 127	B	3RT19 55-5AF31		0.650	B	3RT19 55-5AF32		0.650			
		200 ... 220	B	3RT19 55-5AM31		0.650	B	3RT19 55-5AM32		0.650			
		220 ... 240	B	3RT19 55-5AP31		0.650	B	3RT19 55-5AP32		0.650			
		240 ... 277	B	3RT19 55-5AU31		0.650	B	3RT19 55-5AU32		0.650			
		380 ... 420	B	3RT19 55-5AV31		0.650	B	3RT19 55-5AV32		0.650			
		440 ... 480	B	3RT19 55-5AR31		0.650	B	3RT19 55-5AR32		0.650			
		500 ... 550	B	3RT19 55-5AS31		0.650	B	3RT19 55-5AS32		0.650			
		575 ... 600	B	3RT19 55-5AT31		0.650	B	3RT19 55-5AT32		0.650			
S10	3RT10 6, 3RT14 6	23 ... 26	B	3RT19 65-5AB31		0.850	B	3RT19 65-5AB32		0.850			
		42 ... 48	B	3RT19 65-5AD31		0.850	B	3RT19 65-5AD32		0.850			
		110 ... 127	B	3RT19 65-5AF31		0.850	B	3RT19 65-5AF32		0.850			
		200 ... 220	C	3RT19 65-5AM31		0.850	B	3RT19 65-5AM32		0.850			
		220 ... 240	B	3RT19 65-5AP31		0.850	B	3RT19 65-5AP32		0.850			
		240 ... 277	B	3RT19 65-5AU31		0.850	B	3RT19 65-5AU32		0.850			
		380 ... 420	B	3RT19 65-5AV31		0.850	B	3RT19 65-5AV32		0.850			
		440 ... 480	B	3RT19 65-5AR31		0.850	B	3RT19 65-5AR32		0.850			
		500 ... 550	C	3RT19 65-5AS31		0.850	B	3RT19 65-5AS32		0.850			
		575 ... 600	C	3RT19 65-5AT31		0.850	B	3RT19 65-5AT32		0.850			
S10	3RT12 6 vacuum con- tactors	23 ... 26	B	3RT19 66-5AB31		1.000	--						
		42 ... 48	B	3RT19 66-5AD31		1.000	--						
		110 ... 127	A	3RT19 66-5AF31		1.000	--						
		200 ... 220	C	3RT19 66-5AM31		1.000	--						
		220 ... 240	A	3RT19 66-5AP31		1.000	--						
		240 ... 277	C	3RT19 66-5AU31		1.000	--						
		380 ... 420	B	3RT19 66-5AV31		1.000	--						
		440 ... 480	C	3RT19 66-5AR31		1.000	--						
		500 ... 550	C	3RT19 66-5AS31		1.000	--						
		575 ... 600	C	3RT19 66-5AT31		1.000	--						
S12	3RT10 7, 3RT14 7, 3RT12 7 vacuum con- tactors	23 ... 26	B	3RT19 75-5AB31		1.300	B	3RT19 75-5AB32		1.300			
		42 ... 48	B	3RT19 75-5AD31		1.300	B	3RT19 75-5AD32		1.300			
		110 ... 127	B	3RT19 75-5AF31		1.300	B	3RT19 75-5AF32		1.300			
		200 ... 220	C	3RT19 75-5AM31		1.300	B	3RT19 75-5AM32		1.300			
		220 ... 240	B	3RT19 75-5AP31		1.300	B	3RT19 75-5AP32		1.300			
		240 ... 277	B	3RT19 75-5AU31		1.300	B	3RT19 75-5AU32		1.300			
		380 ... 420	B	3RT19 75-5AV31		1.300	B	3RT19 75-5AV32		1.300			
		440 ... 480	B	3RT19 75-5AR31		1.300	B	3RT19 75-5AR32		1.300			
		500 ... 550	C	3RT19 75-5AS31		1.300	B	3RT19 75-5AS32		1.300			
		575 ... 600	C	3RT19 75-5AT31		1.300	B	3RT19 75-5AT32		1.300			

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT contactors and 3RH contactor relays

PU (UNIT, SET, M)= 1
PS* = 1 unit
PG = 101



3RT19 55-5N...

For contactors		Rated control supply voltage U_s	DT	Screw terminals		Weight per PU approx.	DT	Cage Clamp terminals		Weight per PU approx.
Size	Type	V AC/DC		Order No.	Price per PU	kg		Order No.	Price per PU	kg
Withdrawable coils										
Solid-state operating mechanism										
For 24 V DC PLC output										
S6	3RT10 5,	21 ... 27.3	C	3RT19 55-5NB31		0.650	B	3RT19 55-5NB32		0.650
	3RT14 5	96 ... 127	B	3RT19 55-5NF31		0.650	B	3RT19 55-5NF32		0.650
		200 ... 277	B	3RT19 55-5NP31		0.650	B	3RT19 55-5NP32		0.650
S10	3RT10 6,	21 ... 27.3	B	3RT19 65-5NB31		0.900	B	3RT19 65-5NB32		0.900
	3RT14 6	96 ... 127	B	3RT19 65-5NF31		0.900	B	3RT19 65-5NF32		0.900
		200 ... 277	B	3RT19 65-5NP31		0.900	B	3RT19 65-5NP32		0.900
S12	3RT12 6	21 ... 27.3	B	3RT19 66-5NB31		0.650	--			
	vacuum con-	96 ... 127	C	3RT19 66-5NF31		0.650	--			
	tactors	200 ... 277	C	3RT19 66-5NP31		0.650	--			
	3RT10 7,	21 ... 27.3	B	3RT19 75-5NB31		1.100	B	3RT19 75-5NB32		1.100
	3RT14 7,	96 ... 127	B	3RT19 75-5NF31		1.100	B	3RT19 75-5NF32		1.100
	3RT12 7	200 ... 277	B	3RT19 75-5NP31		1.100	B	3RT19 75-5NP32		1.100
	vacuum con-									
	tactors									
For 24 V DC PLC output/PLC relay output, with remaining lifetime indicator (RLT) (Withdrawable coil with lateral solid-state module)										
S6	3RT10 5,	96 ... 127	B	3RT19 55-5PF31		0.650	--			
	3RT14 5	200 ... 277	B	3RT19 55-5PP31		0.650	--			
S10	3RT10 6,	96 ... 127	B	3RT19 65-5PF31		1.300	--			
	3RT14 6	200 ... 277	B	3RT19 65-5PP31		1.300	--			
S12	3RT10 7,	96 ... 127	B	3RT19 75-5PF31		1.300	--			
	3RT14 7	200 ... 277	B	3RT19 75-5PP31		1.300	--			
With AS-Interface and remaining lifetime indicator (RLT) (Withdrawable coil with lateral solid-state module)										
S6	3RT10 5,	96 ... 127	B	3RT19 55-5QF31		0.650	--			
	3RT14 5	200 ... 277	B	3RT19 55-5QP31		0.650	--			
S10	3RT10 6,	96 ... 127	B	3RT19 65-5QF31		1.300	--			
	3RT14 6	200 ... 277	B	3RT19 65-5QP31		1.300	--			
S12	3RT10 7,	96 ... 127	B	3RT19 75-5QF31		1.300	--			
	3RT14 7	200 ... 277	B	3RT19 75-5QP31		1.300	--			

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for
3RT contactors and 3RH contactor relays

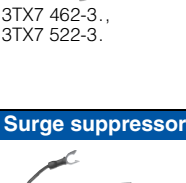
For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type							kg
Arc chutes								
S2	3RT10 3.	Arc chutes, 3-pole	C	3RT19 36-7A	1	1 unit	101	0.110
S3	3RT10 4., 3RT14 46		C	3RT19 46-7A	1	1 unit	101	0.300
S6	3RT10 54		B	3RT19 54-7A	1	1 unit	101	0.760
	3RT10 55		B	3RT19 55-7A	1	1 unit	101	0.760
	3RT10 56		B	3RT19 56-7A	1	1 unit	101	0.760
S10	3RT10 64		B	3RT19 64-7A	1	1 unit	101	1.350
	3RT10 65		B	3RT19 65-7A	1	1 unit	101	1.350
	3RT10 66		B	3RT19 66-7A	1	1 unit	101	1.350
S12	3RT10 75		B	3RT19 75-7A	1	1 unit	101	1.650
	3RT10 76		B	3RT19 76-7A	1	1 unit	101	1.650
S6	3RT14 56		B	3RT19 56-7B	1	1 unit	101	0.720
S10	3RT14 66		B	3RT19 66-7B	1	1 unit	101	1.350
S12	3RT14 76		B	3RT19 76-7B	1	1 unit	101	1.400
Contacts with fixing parts								
<i>For contactors with 3 main contacts</i>								
S2	3RT10 34	Main contacts (3 NO contacts) for utilization category AC-3	▶	3RT19 34-6A	1	1 unit	101	0.050
	3RT10 35		▶	3RT19 35-6A	1	1 unit	101	0.050
	3RT10 36		▶	3RT19 36-6A	1	1 unit	101	0.050
S3	3RT10 44	(1 set = 3 movable and 6 fixed switching elements with fixing parts)	▶	3RT19 44-6A	1	1 unit	101	0.110
	3RT10 45		▶	3RT19 45-6A	1	1 unit	101	0.110
	3RT10 46		▶	3RT19 46-6A	1	1 unit	101	0.110
S6	3RT10 54		▶	3RT19 54-6A	1	1 unit	101	0.280
	3RT10 55		▶	3RT19 55-6A	1	1 unit	101	0.280
	3RT10 56		▶	3RT19 56-6A	1	1 unit	101	0.280
S10	3RT10 64		▶	3RT19 64-6A	1	1 unit	101	0.550
	3RT10 65		▶	3RT19 65-6A	1	1 unit	101	0.550
	3RT10 66		▶	3RT19 66-6A	1	1 unit	101	0.550
S12	3RT10 75		▶	3RT19 75-6A	1	1 unit	101	0.900
	3RT10 76		A	3RT19 76-6A	1	1 unit	101	0.100
S3	3RT14 46	Main contacts (3 NO contacts) for utilization category AC-1	B	3RT19 46-6D	1	1 unit	101	0.900
S6	3RT14 56		B	3RT19 56-6D	1	1 unit	101	0.280
S10	3RT14 66	(1 set = 3 movable and 6 fixed switching elements with fixing parts)	B	3RT19 66-6D	1	1 unit	101	0.550
S12	3RT14 76		A	3RT19 76-6D	1	1 unit	101	0.900
<i>For 3RT12 vacuum contactors</i>								
S10	3RT12 64	3 vacuum interrupters with fixing parts	B	3RT19 64-6V	1	1 unit	101	1.530
	3RT12 65		B	3RT19 65-6V	1	1 unit	101	1.530
	3RT12 66		B	3RT19 66-6V	1	1 unit	101	1.530
S12	3RT12 75		B	3RT19 75-6V	1	1 unit	101	1.780
	3RT12 76		B	3RT19 76-6V	1	1 unit	101	1.780
<i>For contactors with 4 main contacts</i>								
S2	3RT13 36	Main contacts (4 NO contacts) for utilization category AC-1	C	3RT19 36-6E	1	1 unit	101	0.060
S3	3RT13 44		C	3RT19 44-6E	1	1 unit	101	0.150
	3RT13 46	(1 set = 4 movable and 8 fixed switching elements with fixing parts)	C	3RT19 46-6E	1	1 unit	101	0.150

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF contactors

Selection and ordering data

For contactors		Version	Rated control supply voltage U_s		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type		V AC	V DC							kg
Surge suppressors ¹⁾ · Varistors											
	2	3TC44 ²⁾	Varistors ³⁾			3TX7 402-3G 3TX7 402-3H 3TX7 402-3J 3TX7 402-3K 3TX7 402-3L		1	1 unit	101	0.015
			With line spacer, for mounting onto the coil terminal								
			24 ... 48	24 ... 70	A						
			48 ... 127	70 ... 150	A						
			127 ... 240	150 ... 250	A						
	4 and 6	3TB50 and 3TC56	Varistors ³⁾			3TX7 462-3G 3TX7 462-3H 3TX7 462-3J 3TX7 462-3K 3TX7 462-3L		1	1 unit	101	0.020
			For sticking onto the contactor base or for mounting separately								
			24 ... 48	24 ... 70	D						
			48 ... 127	70 ... 150	C						
			127 ... 240	150 ... 250	B						
	8 and 12	3TC52 and 3TC56	Varistors			3TX7 462-3G 3TX7 462-3H 3TX7 462-3J 3TX7 462-3K 3TX7 462-3L		1	1 unit	101	0.020
			For sticking onto the contactor base or for mounting separately								
			24 ... 48	--	D						
			48 ... 127	--	C						
			127 ... 240	--	B						
	8 ... 12	3TB52 ... 3TB56, 3TC52 and 3TC56	Varistors ³⁾			3TX7 522-3G 3TX7 522-3H 3TX7 522-3J		1	1 unit	101	0.080
			For separate screw connection or snapping onto 35 mm standard mounting rail								
			--	24 ... 70	B						
			--	70 ... 150	B						
			--	150 ... 250	B						
	14	3TF68 and 3TF69	Varistors ³⁾			3TX7 572-3G 3TX7 572-3H 3TX7 572-3J		1	1 unit	101	0.080
			for DC economy circuit; for snapping onto the side of auxiliary switches								
			--	24 ... 48	C						
			--	48 ... 127	C						
			--	127 ... 240	C						
Surge suppressors · RC elements											
	4	3TC48	RC elements			3TX7 462-3R 3TX7 522-3R 3TX7 462-3S 3TX7 522-3S 3TX7 462-3T 3TX7 522-3T 3TX7 462-3U 3TX7 462-3V		1	1 unit	101	0.090
			For lateral snapping onto auxiliary switch or TH 35 standard mounting rail								
			24 ... 48	--	C						
			--	24 ... 70	B						
			48 ... 127	--	A						
	6 ... 12	3TB50, 3TC52 and 3TC56	RC elements			3TX7 522-3R 3TX7 522-3S 3TX7 522-3T 3TX7 522-3U 3TX7 522-3V		1	1 unit	101	0.090
			For lateral snapping onto auxiliary switch or TH 35 standard mounting rail								
			24 ... 48	--	B						
			48 ... 127	--	B						
			127 ... 240	--	B						
Surge suppressors ⁴⁾ · Diodes											
	6 ... 12	3TB50 ... 3TB56, 3TC48 ... 3TC56	Diode assemblies (diode and Zener diode)			3TX7 462-3D		1	1 unit	101	0.015
			For DC solenoid system, for sticking onto the contactor base or for mounting separately								
			--	24 ... 250	D						

¹⁾ The surge suppressor is included in the scope of supply of the following contactors: 3TF68 and 3TF69 (AC operation): varistor circuit.

²⁾ The connection piece for mounting the surge suppressor must be bent slightly.

³⁾ Includes the peak value of the alternating voltage on the DC side.

⁴⁾ Not for DC economy circuit.

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF contactors

	For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	Size	Type							kg	
Solid-state compatible auxiliary switch blocks with screw terminals										
 5TY7 561-1.	14	3TF68 and 3TF69	For mounting onto the side of contactors	▶	3TY7 561-1UA00	1	1 unit	101	0.060	
	2 and 4	3TC44 ... 3TC48	For use in dusty atmosphere and solid-state circuits with rated operational currents <i>I</i> _e AC-14 and DC-13 from 1 ... 300 mA at 3 ... 60 V DC With 1 changeover contact. 2nd auxiliary switch block, left or right (replacement for 3TY6 561-1U, 3TY6 561-1V)							
Coupling links for control by PLC										
	14	3TF68 and 3TF69	For snapping onto the side of auxiliary switch, with surge suppression. Operating range: 17 V to 30 V DC. Power consumption: 0.5 W at 24 V DC. Fitted with varistor. ¹⁾	▶	3TX7 090-0D	1	1 unit	101	0.080	
Terminal covers for protection against inadvertent contact with exposed busbar connections										
 3TX7 6.6-0A	14	3TF68	For screwing onto free screw end on middle connecting bar.	B	3TX7 686-0A	1	1 unit	101	0.410	
		3TF69	2 units required per contactor. (1 set = 2 units)	B	3TX7 696-0A	1	1 unit	101	0.410	
 3TX6 526-3B	6	3TB50, 3TC48	Can be screwed on free screw end. Covers one busbar connection (1 set = 6 units).	M6	B	3TX6 506-3B	1	1 unit	101	0.100
	8	3TB52		M8	B	3TX6 526-3B	1	1 unit	101	0.140
	SIRIUS S6	3RT1. 5								
	10 and 14	3TB54 ... 3TB56, 3TC52, 3TC56		M10	B	3TX6 546-3B	1	1 unit	101	0.260
	SIRIUS S10, S12	3RT1. 6, 3RT1. 7								
Links for paralleling (star jumpers) · 3-pole, without connection terminal ²⁾										
	14	3TF68		C	3TX7 680-0D	1	1 unit	101	0.250	
Cover plates for links for paralleling										
	14	3TF68	A cover plate must be used in order to protect against inadvertent contact with exposed busbar connections (EN 50274).	C	3TX7 680-0E	1	1 unit	101	0.080	
Box terminals for laminated copper bars										
Without auxiliary conductor connection (1 set = 3 units)										
	14	3TF68	With single covers for protection against inadvertent contact (EN 50274)	C	3TX7 570-1E	1	1 unit	101	0.780	
With auxiliary conductor connection (1 set = 3 units)										
	14	3TF69	Conductor cross-sections for auxiliary conductors: • Solid wire 2 x (0.75 ... 2.5) mm ² • Finely stranded with end sleeve 2 x (0.5 ... 2.5) mm ² • Solid or stranded 2 x (18 ... 12) AWG • Tightening torque 0.8 ... 1.4 Nm (7 ... 12 lb.in)	C	3TX7 690-1F	1	1 unit	101	2.000	

¹⁾ More information can be found in the "Technical specifications" (see note on Technical Information on page 3/1).

²⁾ The link for paralleling can be reduced by one pole.

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF contactors

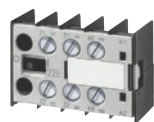
For contactors	Remarks	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type	V DC							kg
Arc chutes									
2	3TC44 17-0L...	With cutout for mounting resistor	B	3TY2 442-0B		1	1 unit	101	0.160
Solenoid coils									
2	3TC44	With series resistor	24	C	3TY6 443-0LB4	1	1 unit	101	0.400
		Without Varistor	110	C	3TY6 443-0LF4	1	1 unit	101	0.400
4	3TC48		24	C	3TY6 483-0LB4	1	1 unit	101	1.100
			110	C	3TY6 483-0LF4	1	1 unit	101	1.100
6	3TB50		24	C	3TY6 503-0LB4	1	1 unit	101	1.100
			110	D	3TY6 503-0LF4	1	1 unit	101	1.100
8	3TB52 and 3TC52		24	D	3TY6 523-0LB4	1	1 unit	101	1.100
			110	D	3TY6 523-0LF4	1	1 unit	101	1.100
10	3TB54		24	C	3TY6 543-0LB4	1	1 unit	101	1.100
			110	C	3TY6 543-0LF4	1	1 unit	101	1.100
12	3TB56 and 3TC56		24	C	3TY6 563-0LB4	1	1 unit	101	1.100
			110	C	3TY6 563-0LF4	1	1 unit	101	1.100

All spare parts not mentioned above are identical to those for the standard contactors.

Auxiliary contacts	Rated operational current I_e /AC-15/AC-14 at	Auxiliary contacts	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	230/220 V 400/380 V 500 V	Ident. No. Version							
		NO NC NO NC							
Number	A A A								kg

Snap-on auxiliary switch blocks for 3TF2 contactors

With screw terminals



3TX4 4...-A

For assembling contactors with several auxiliary contacts with 2, 4 and 5 auxiliary contacts according to DIN 50012 for 3TF2. 10 contactors (auxiliary contact 1 NO = 10E)

1	4	3	2	11E	--	1	--	--	►	3TX4 401-1A	1	1 unit	101	0.050
3	4	3	2	22E	1	2	--	--	►	3TX4 412-1A	1	1 unit	101	0.050
4	4	3	2	23E	1	3	--	--	►	3TX4 413-1A	1	1 unit	101	0.050
				32E	2	2	--	--	►	3TX4 422-1A	1	1 unit	101	0.050
With 3 and 5 auxiliary contacts according to DIN 50005 for 3TF2 contactors														
2	4	3	2	20	2	--	--	--	►	3TX4 420-2A	1	1 unit	101	0.050
				11	1	1	--	--	►	3TX4 411-2A	1	1 unit	101	0.050
				02	--	2	--	--	►	3TX4 402-2A	1	1 unit	101	0.050
				11; U	--	--	1	1	D	3TX4 411-2G	1	1 unit	101	0.050
4	4	3	2	40	4	--	--	--	►	3TX4 440-2A	1	1 unit	101	0.050
				31	3	1	--	--	►	3TX4 431-2A	1	1 unit	101	0.050
				22	2	2	--	--	►	3TX4 422-2A	1	1 unit	101	0.050
				22; 2 U	--	--	2	2	D	3TX4 422-2G	1	1 unit	101	0.050

For contactors	Rated control supply voltage U_s	Time setting range (minimum times)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type									kg

OFF-delay devices for 3TF2 contactors

With screw terminals



3TX4 490-1H

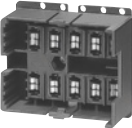
For DC-operated contactors for bridging short-time power failures up to 0.8 s

3TF2...0BB4	24 V DC	0.25 s or 0.5 s	A	3TX4 490-1H		1	1 unit	101	0.085
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Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF contactors

For contactors	Rated control supply voltage U_s		Power consumption of LED at U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	V AC	V DC	mW							kg
Surge suppressors for 3TF2 contactors for plugging onto contactors with and without auxiliary switch blocks										
 3TX4 490-3A	Version without LED									
	RC elements									
	3TF2...-0...	24 ... 48	24 ... 70	--	B	3TX4 490-3R	1	1 unit	101	0.010
	3TF2...-1...	48 ... 127	70 ... 150	--	B	3TX4 490-3S	1	1 unit	101	0.010
		127 ... 240	150 ... 250	--	B	3TX4 490-3T	1	1 unit	101	0.010
		240 ... 400	--	--	B	3TX4 490-3U	1	1 unit	101	0.015
		400 ... 600	--	--	B	3TX4 490-3V	1	1 unit	101	0.015
	Varistors									
	3TF2...-0...	≤ 48	24 ... 70	--	B	3TX4 490-3G	1	1 unit	101	0.010
	3TF2...-1...	48 ... 127	70 ... 150	--	B	3TX4 490-3H	1	1 unit	101	0.010
 3TX4 490-4G	Version with LED									
	Varistors									
	3TF2...-0...	24 ... 48	12 ... 24	10 ... 120	B	3TX4 490-4G	1	1 unit	101	0.010
	3TF2...-1...	48 ... 127	24 ... 70	20 ... 470	B	3TX4 490-4H	1	1 unit	101	0.010
		127 ... 240	70 ... 150	50 ... 700	B	3TX4 490-4J	1	1 unit	101	0.010
		--	150 ... 250	160 ... 950	B	3TX4 490-4K	1	1 unit	101	0.010
	Noise suppression diodes									
	3TF2...-0...	--	24 ... 70	20 ... 470	B	3TX4 490-4A	1	1 unit	101	0.010
	3TF2...-1...	--	70 ... 150	50 ... 700	B	3TX4 490-4B	1	1 unit	101	0.010
		--	150 ... 250	160 ... 950	B	3TX4 490-4C	1	1 unit	101	0.010
Additional load modules for 3TF2 contactors for plugging onto contactors with and without auxiliary switch blocks¹⁾										
For increasing the permissible residual current and for limiting the residual voltage										
3TF2...-0A...	230/220, 50 Hz	--		B	3TX4 490-1J	1	1 unit	101	0.010	
3TF2...-1A...	230, 60 Hz									
	230, 50/60 Hz									
	Operating range 0.8 ... 1.1 x U_s									
Plug-in bases with solder pin connections for printed circuit boards, width 45 mm for 3TF2 contactors										
 3TX4 491-2A	For 3TF2 and 3TK2 contactors With 6.3 mm x 0.8 mm flat connectors Rated insulation voltage U_i : 400 V (at pollution degree 3); Rated impulse withstand voltage U_{imp} : 6 kV; rated operational current I_g : 6 A; Ⓢ and ⓇA rated data: max. 300 V, 6 A									
	3TF20...-3...				A	3TX4 491-2A	1	5 units	101	0.030
	3TF20...-7...									
Release tools										
3TF2...-7...	For releasing contactors from 3TX4 491-2A plug-in bases				D	3TX4 491-2K	1	1 unit	101	0.010

¹⁾ Dimensions as for 3TX4 490-3 surge suppressor.

Accessories and Spare Parts

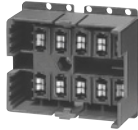
For 3T Contactors and Contactor Relays

Accessories for 3TK, 3TG contactors

Selection and ordering data

For contactors	Rated control supply voltage U_s		Power consumption of LED at U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	V AC	V DC	mW							kg

Plug-in bases with solder pin connections for printed circuit boards, width 45 mm for 3TK2 contactors



3TX4 491-2A

For 3TF2 and 3TK2 contactors
With 6.3 mm x 0.8 mm flat connectors
Rated insulation voltage U_i : 400 V
(at pollution degree 3);
Rated impulse withstand voltage U_{imp} : 6 kV;
rated operational current I_g : 6 A;
Ⓢ and ⓈA rated data: max. 300 V, 6 A

3TK20 ...-3...
3TK20 ...-7...

A

3TX4 491-2A

1 5 units

101

0.030

Release tools

3TK20...-7...

For releasing contactors from 3TX4 491-2A plug-in bases

D

3TX4 491-2K

1 1 unit

101

0.010

For contactors	Max. rated operational currents $I_g/AC-1$ (at 55 °C) of the contactors	Max. conductor cross-sections	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	A	mm ²							kg

Links for paralleling (star jumpers)

3-pole, without connection terminals¹⁾²⁾

3TG10 16 star jumpers can be reduced by one pole

--

►

3RT19 16-4BA31

1 1 unit

101

0.010

3-pole, with connection terminals¹⁾³⁾

3TG10 40

25

►

3RT19 16-4BB31

1 1 unit

101

0.015

4-pole, with connection terminals¹⁾⁴⁾

3TG10 50

25

C

3RT19 16-4BB41

1 1 unit

101

0.015

¹⁾ The links for paralleling can be reduced by one pole. The rated operational currents apply to each pole. The links for paralleling are insulated.

²⁾ Replacement for 3TX4 490-2C.

³⁾ Replacement for 3TX4 490-2A.

⁴⁾ Replacement for 3TX4 490-2B.

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays

Selection and ordering data

Version	Rated control supply voltage U_s		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	AC	DC							kg
	V	V							

Surge suppressors¹⁾ for 3TH4 contactor relays



3TX7 402-3.

Noise suppression diodes With line spacer, for mounting onto the coil terminal	--	24 ... 250	A	3TX7 402-3A		1	1 unit	101	0.015
Diode assemblies (diode and Zener diode) with line spacer, DC operation, for mounting onto the coil terminal	--	24 ... 250	A	3TX7 402-3D		1	1 unit	101	0.015
Varistors²⁾ With line spacer, for mounting onto the coil terminal	24 ... 48 48 ... 127 127 ... 240 240 ... 400 400 ... 600	24 ... 70 70 ... 150 150 ... 250 -- --	A A A C C	3TX7 402-3G 3TX7 402-3H 3TX7 402-3J 3TX7 402-3K 3TX7 402-3L		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	101 101 101 101 101	0.015 0.015 0.015 0.025 0.025
RC elements With line spacer, for mounting onto the coil terminal	24 ... 48 48 ... 127 127 ... 240 240 ... 400 400 ... 600	24 ... 70 70 ... 150 150 ... 250 -- --	A A A C C	3TX7 402-3R 3TX7 402-3S 3TX7 402-3T 3TX7 402-3U 3TX7 402-3V		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	101 101 101 101 101	0.025 0.025 0.025 0.025 0.025
Covers For switch position indicator	--	--	B	3TX4 210-0P		1	1 unit	101	0.010

Coupling links for control by PLC for 3TH4 contactor relays

3TX4 090
mounted to contactor

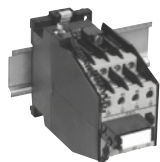
Operating range: 17 to 30 V DC Power consumption: 0.5 W at 24 V DC For mounting directly to contactor coil without surge suppressor			A	3TX4 090-0C		1	1 unit	101	0.060
For mounting directly to contactor coil with surge suppressor			A	3TX4 090-0D		1	1 unit	101	0.060

¹⁾ The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

²⁾ Includes the peak value of the alternating voltage on the DC side.

For contactors	Version	Rated control supply voltage U_s AC 50/60 Hz	Time setting range (minimum times)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		V	s							kg

ON-delay devices



3TX4 180-0A

3TH42/ 3TH43	NTC thermistors Time tolerance +100 %, -50 %	220 ... 230	0.1	B	3TX4 180-0A		1	1 unit	101	0.015
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Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays

For contactors	Rated control supply voltage U_s		OFF-delay (minimum times)	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	AC 50/60 Hz	DC			Order No.	Price per PU			kg
	V	V	s						

OFF-delay devices for contactors with DC operation For bridging temporary voltage failures

Voltage failures up to 0.8 s

3TH2...-0BB4	--	24	0.25 or 0.5	A
3TH2...-0BF4	110	--	0.1 or 0.2	A
3TH2...-0BM4, 3TH2...-0BP4	220	--	0.4 or 0.8	



3TX4 490-1A

3TX4 490-1H	1	1 unit	101	0.085
3TX4 490-1A	1	1 unit	101	0.085

Voltage failures up to 1.2 s

3TH42...-0BF4	110	--	0.15 or 0.3	A
3TH43...-0BF4				
3TH42...-0BM4	220	--	0.6 or 1.2	A
3TH43...-0BM4				
3TH42...-0BP4	230	--	0.6 or 1.2	A
3TH43...-0BP4				
3TH42...-0BB4	--	24	0.4 or 0.8	B
3TH43...-0BB4				



3TX4 701-0AN1

3TX4 701-0AN1	1	1 unit	101	0.170
3TX4 701-0AN1	1	1 unit	101	0.170
3TX4 701-0AN1	1	1 unit	101	0.170
3TX4 701-0BB4	1	1 unit	101	0.170

Contacts	Rated operational current I_e /AC-15/AC-14 at				Contacts	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	230/220 V	400/380 V	500 V	690/660 V	Ident. No. acc. to EN 50011	Version	Order No.	Price per PU			kg
Number	A	A	A	A		NO NC NO NC					

Snap-on auxiliary switch blocks for 3TH20 contactor relays

With 8 contacts according to EN 50011, for snapping onto contactor relays with 4 NO, Ident. No. 40E (3TH20 40-0...)



3TX4 440-0A

4	4	3	2	--	80E	4 -- -- --	3TX4 440-0A	1	1 unit	101	0.050
					71E	3 1 -- --	3TX4 431-0A	1	1 unit	101	0.050
					62E	2 2 -- --	3TX4 422-0A	1	1 unit	101	0.050
					53E	1 3 -- --	3TX4 413-0A	1	1 unit	101	0.050
					44E	-- 4 -- --	3TX4 404-0A	1	1 unit	101	0.050

With 6 and 8 contacts according to EN 50005

4	4	3	2	--	40E	4 -- -- --	3TX4 440-2A	1	1 unit	101	0.050
					31E	3 1 -- --	3TX4 431-2A	1	1 unit	101	0.050
					22E	2 2 -- --	3TX4 422-2A	1	1 unit	101	0.050
					22; 2U	-- -- 2 2	3TX4 422-2G	1	1 unit	101	0.050
2	4	3	2	--	20E	2 -- -- --	3TX4 420-2A	1	1 unit	101	0.050
					11E	1 1 -- --	3TX4 411-2A	1	1 unit	101	0.050
					02E	-- 2 -- --	3TX4 402-2A	1	1 unit	101	0.050
					11; U	-- -- 1 1	3TX4 411-2G	1	1 unit	101	0.050

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays

For contactors	Rated control supply voltage U_s		Power consumption of LED at U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	V AC	V DC	mW							kg

Surge suppressors¹⁾ For plugging onto contactors with and without auxiliary switch blocks

Version without LED

RC elements

3TH2. ...-0...	24 ... 48	24 ... 70	--	B	3TX4 490-3R	1	1 unit	101	0.010
	48 ... 127	70 ... 150	--	B	3TX4 490-3S	1	1 unit	101	0.010
	127 ... 240	150 ... 250	--	B	3TX4 490-3T	1	1 unit	101	0.010
	240 ... 400	--	--	B	3TX4 490-3U	1	1 unit	101	0.015
	400 ... 600	--	--	B	3TX4 490-3V	1	1 unit	101	0.015

Varistors

3TH2. ...-0...	≤ 48	24 ... 70	--	B	3TX4 490-3G	1	1 unit	101	0.010
	48 ... 127	70 ... 150	--	B	3TX4 490-3H	1	1 unit	101	0.010
	127 ... 240	150 ... 250	--	B	3TX4 490-3J	1	1 unit	101	0.010
	240 ... 400	--	--	B	3TX4 490-3K	1	10 units	101	0.015
	400 ... 600	--	--	B	3TX4 490-3L	1	10 units	101	0.015

Noise suppression diodes

3TH2. ...-0...	--	12 ... 250	--	B	3TX4 490-3A	1	1 unit	101	0.010
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Diode assemblies (diode and Zener diode) For DC operation and short break times

3TH2. ...-0...	--	24 ... 250	--	B	3TX4 490-3B	1	1 unit	101	0.010
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Version with LED

Varistors

3TH2. ...-0...	24 ... 48	12 ... 24	10 ... 12	B	3TX4 490-4G	1	1 unit	101	0.010
	48 ... 27	24 ... 70	20 ... 470	B	3TX4 490-4H	1	1 unit	101	0.010
	127 ... 240	70 ... 150	50 ... 700	B	3TX4 490-4J	1	1 unit	101	0.010
	--	150 ... 250	160 ... 950	B	3TX4 490-4K	1	1 unit	101	0.010

Noise suppression diodes

3TH2. ...-0...	--	24 ... 70	20 ... 470	B	3TX4 490-4A	1	1 unit	101	0.010
	--	70 ... 150	50 ... 700	B	3TX4 490-4B	1	1 unit	101	0.010
	--	150 ... 250	160 ... 950	B	3TX4 490-4C	1	1 unit	101	0.010

Additional load modules (residual current) For plugging onto contactors without and with auxiliary switch blocks

For increasing the permissible residual current and for limiting the residual voltage of SIMATIC semiconductor outputs

3TH2. ...-0A...	230/220, 50 Hz	--	B	3TX4 490-1J	1	1 unit	101	0.010
	230, 60 Hz	--						
	230, 50/60 Hz	--						
Operating range 0.8 ... 1.1 x U_s								

Plug-in bases with solder pin connections for printed circuit boards, width 45 mm

For 3TH2 contactor relays;
with flat connectors 1 x 6.3 mm ... 0.8 mm
Rated insulation voltage U_i : 400 V
(at pollution degree 3);
Rated impulse withstand voltage U_{imp} : 6 kV;
Rated operational current I_g : 6 A;
© and ⚡ rated data: max. 300 V, 6 A

3TH20 ...-3...	A	3TX4 491-2A	1	5 units	101	0.030
3TH20 ...-7...						

¹⁾ The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

Selection and ordering data

For contactors		Auxiliary con- tacts Version	Version			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Size	Type	NO	NC	NC								kg	
Auxiliary switch blocks													
	6	3TB50	1	1	--	Auxiliary switch block, left or right (replacement for 3TY6 501-1A/-1B)	▶	3TY6 501-1AA00	1	1 unit	101	0.055	
			1	--	1	Auxiliary switch block, right	▶		3TY6 501-1E	1	1 unit	101	0.055
	8 ... 12	3TB52 ... 3TB56	1	1	--	Auxiliary switch block, left	▶	3TY6 561-1A	1	1 unit	101	0.075	
			1	1	--	Auxiliary switch block, right	▶	3TY6 561-1B	1	1 unit	101	0.075	
			1	--	1	Auxiliary switch block, right	▶	3TY6 561-1E	1	1 unit	101	0.075	
Solenoid coils													
	DC operation												
	6	3TB50						3TY6 503-0B... 3TY6 523-0B... 3TY6 543-0B... 3TY6 563-0B...					
	8	3TB52											
	10	3TB54											
	12	3TB56											
3TY6 5.													
Arc chutes													
	6	3TB50	1 arc chute, 3-pole				▶	3TY6 502-0A 3TY6 522-0A 3TY6 542-0A 3TY6 562-0A	1	1 unit	101	0.750	
	8	3TB52					▶		1	1 unit	101	1.200	
	10	3TB54					▶		1	1 unit	101	1.500	
	12	3TB56					▶		1	1 unit	101	1.600	
	3TY6 502-0A												
Contacts with fixing parts													
In order to ensure reliable operation of the contactors, only original replacement contacts should be used.													
	6	3TB50	(1 set = 3 moving and 6 fixed switching elements)				B	3TY6 500-0A	1	1 unit	101	0.280	
	8	3TB52					B	3TY6 520-0A	1	1 unit	101	0.360	
	10	3TB54					B	3TY6 540-0A	1	1 unit	101	0.530	
	12	3TB56					B	3TY6 560-0A	1	1 unit	101	0.760	
3TY6 520-0A													

For rated control supply voltages for solenoid coils, see page 3/132.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

	For contactors	Auxiliary con- tacts Version	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	Size	Type	NO	NC						kg	
Auxiliary switch blocks											
 3TY6 561-1A	2 and 4	3TC44, 3TC48	1	1	Auxiliary switch block, left or right (replacement for 3TY6 501-1A/-1B)	▶	3TY6 501-1AA00	1	1 unit	101	0.055
	4	3TC48	1	1	2nd auxiliary switch block, left ¹⁾	▶	3TY6 501-1K	1	1 unit	101	0.055
					2nd auxiliary switch block, right ¹⁾	D	3TY6 501-1L	1	1 unit	101	0.055
	8 and 12	3TC52, 3TC56	1	1	Auxiliary switch block, left	▶	3TY6 561-1A	1	1 unit	101	0.075
					Auxiliary switch block, right	▶	3TY6 561-1B	1	1 unit	101	0.075
					2nd auxiliary switch block, left ¹⁾	C	3TY6 561-1K	1	1 unit	101	0.075
2nd auxiliary switch block, right ¹⁾					C	3TY6 561-1L	1	1 unit	101	0.075	
Contacts with fixing parts											
 3TY2 520-0A	In order to ensure reliable operation of the contactors, only original replacement contacts should be used.										
	2	3TC44	(1 set = 2 moving and 4 fixed switch- ing elements)			B	3TY2 440-0A	1	1 unit	101	0.070
	4	3TC48				B	3TY2 480-0A	1	1 unit	101	0.100
	8	3TC52				B	3TY2 520-0A	1	1 unit	101	0.250
	12	3TC56				C	3TY2 560-0A	1	1 unit	101	0.450
Arc chutes											
 3TC2 48	2	3TC44	Arc chutes, 2-pole			C	3TY2 442-0A	1	1 unit	101	0.170
	4	3TC48				C	3TY2 482-0A	1	1 unit	101	0.500
	8	3TC52				C	3TY2 522-0A	1	1 unit	101	1.200
	12	3TC56				C	3TY2 562-0A	1	1 unit	101	2.130
	Solenoid coils										
DC operation											
2	3TC44					3TY6 443-0B..					
4	3TC48					3TY6 483-0B..					
8	3TC52					3TY6 523-0B..					
12	3TC56					3TY6 563-0B..					
AC operation											
2	3TC44					3TY7 403-0A..					
4	3TC48					3TY6 483-0A..					
8	3TC52					3TY6 523-0A..					
12	3TC56					3TY6 566-0A..					

For rated control supply voltages for solenoid coils, see page 3/132.

¹⁾ Can only be mounted on AC-operated contactors.

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

For contactors	Version	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		V AC/DC							kg
Varistors									
3TC7	For sticking onto the contactor base	24 110	C	3TX2 746-2F		1	1 unit	101	0.150
			C	3TX2 746-2G		1	1 unit	101	0.150
Contacts with fixing parts									
3TC7	Main contacts (1 set) 2 units required per contactor		C	3TY2 740-0E		1	1 unit	101	0.360
Auxiliary switch blocks									
3TC74	4 NO + 4 NC		►	3TY2 741-2J		1	1 unit	101	0.270
3TC78	Auxiliary switch block left, with 2 NO + 2 NC		►	3TY2 781-2C		1	1 unit	101	0.190
	Auxiliary switch block right, with 2 NO + 2 NC		C	3TY2 781-2D		1	1 unit	101	0.190
Arc chutes									
3TC7	For 3TC78: 2 units required per contactor		C	3TY2 742-0C		1	1 unit	101	3.900

For contactors		Auxiliary con- tacts Version		Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type	NO	NC	NC							kg
Auxiliary switch blocks											
With screw terminals											
	14 3TF68 and 3TF69	1	1	--	1st auxiliary switch block, left or right (replacement for: 3TY7 561-1A/ -1B.)	▶	3TY7 561-1AA00	1	1 unit	101	0.050
		1	--	1	Auxiliary switch blocks, left or right	▶	3TY7 561-1EA00	1	1 unit	101	0.050
		1	1	--	2nd auxiliary switch block, left or right (replacement for: 3TY7 561-1K/ -1L.)	▶	3TY7 561-1KA00	1	1 unit	101	0.050
For coil reconnection with DC economy circuit, with screw terminals											
14	3TF68 and 3TF69	--	--	1	Auxiliary switch blocks	▶	3TY7 681-1G	1	1 unit	101	0.050

For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type							kg
Solenoid coils								
AC operation								
14	3TF68 3TF69	The solenoid coils are fitted as standard with varistors against overvoltage. The coil is supplied with switch-on electronics.		3TY7 683-0C.. 3TY7 693-0C..				
DC operation · DC economy circuit								
14	3TF68 3TF69	Reversing contactors are required for size 14 contactors: Contactor type 3TF68 and 3TF69 Reversing contactor 3TC44 (70 mm wide, 85 mm high) The solenoid coils are supplied without reversing contactor.		3TY7 683-0D.. 3TY7 693-0D..				



3TY7 6.3-0.1

Vacuum interrupters

In order to ensure reliable operation of the contactors, only **original replacement interrupters** should be used.

14	3TF68 3TF69	3 vacuum interrupters with components	B C	3TY7 680-0B 3TY7 690-0B	1 1	1 unit 1 unit	101 101	3.490 3.640
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For rated control supply voltages for solenoid coils, see page 3/132.

For solid-state compatible auxiliary switch blocks, see page 3/121.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

Version	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	V AC							kg
Reversing contactors (3TC44)								
Complete with resistor and 1 m connecting cable and plug-in connector for 3TF68 ...-Q, 3TF69 ...-Q	110 ... 120	D	3TY7 684-0QG7		1	1 unit	101	1.000
	220 ... 240	D	3TY7 684-0QL7		1	1 unit	101	1.000
	380 ... 420	D	3TY7 684-0QV7		1	1 unit	101	1.000
Solenoid coils for main contactor, with rectifier bridge								
For 3TF68 ...-Q	110 ... 120	D	3TY7 683-0QG7		1	1 unit	101	2.700
	220 ... 240	D	3TY7 683-0QL7		1	1 unit	101	1.500
	380 ... 420	D	3TY7 683-0QV7		1	1 unit	101	1.460
For 3TF69 ...-Q	110 ... 120	D	3TY7 693-0QG7		1	1 unit	101	0.650
	220 ... 240	D	3TY7 693-0QL7		1	1 unit	101	1.500
	380 ... 420	D	3TY7 693-0QV7		1	1 unit	101	1.500

For rated control supply voltages for solenoid coils, see page 3/132.

For solid-state compatible auxiliary switch blocks, see page 3/121.

For contactors	Version	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		V AC							kg
Surge suppressors · RC elements									
3TK10 to 3TK13		24 ... 48	D	3TK19 30-0A		1	1 unit	101	0.050
		110 ... 415	B	3TK19 30-0B		1	1 unit	101	0.050
3TK14 to 3TK17		48 ... 110	C	3TK19 34-0C		1	1 unit	101	0.050
		220 ... 600	B	3TK19 34-0D		1	1 unit	101	0.050
Terminal covers									
3TK10, 3TK11	For mounting onto contactors		B	3TK19 40-0A		1	2 units	101	0.150
3TK12, 3TK13			B	3TK19 42-0A		1	2 units	101	0.150
3TK14, 3TK15			B	3TK19 44-0A		1	2 units	101	0.200
3TK17			B	3TK19 46-0A		1	2 units	101	0.200
Auxiliary switch blocks									
3TK1	1st auxiliary switch block, left or right	1 NO + 1 NC	B	3TK19 10-3A		1	1 unit	101	0.050
	2nd auxiliary switch block, left or right	1 NO + 1 NC	B	3TK19 10-3B		1	1 unit	101	0.050
Locking devices									
3TK10, 3TK11	For mechanical interlocking of 2 identical contactors, auxiliary contacts 2 NC		B	3TK19 20-0A		1	1 unit	101	0.140
3TK12, 3TK13			B	3TK19 22-0A		1	1 unit	101	0.140
3TK14, 3TK15, 3TK17	Mechanical interlock, including mounting plate		B	3TK19 24-0A		1	1 unit	101	6.750
Arc chutes									
3TK10	1 arc chute, 4-pole		D	3TK19 50-0A		1	1 unit	101	0.650
3TK11			D	3TK19 51-0A		1	1 unit	101	0.650
3TK12			D	3TK19 52-0A		1	1 unit	101	1.250
3TK13			D	3TK19 53-0A		1	1 unit	101	1.250
3TK14			D	3TK19 54-0A		1	1 unit	101	3.700
3TK15			D	3TK19 55-0A		1	1 unit	101	3.700
3TK17			D	3TK19 57-0A		1	1 unit	101	3.700
Solenoid coils									
3TK10, 3TK11				3TK19 70-0A..					
3TK12, 3TK13				3TK19 72-0A..					
3TK14, 3TK15, 3TK17				3TK19 74-0A..					
Contacts with fixing parts									
3TK10	4 moving and 8 fixed contacts		D	3TK19 60-0A		1	1 unit	101	0.270
3TK11			D	3TK19 61-0A		1	1 unit	101	0.270
3TK12			D	3TK19 62-0A		1	1 unit	101	0.580
3TK13			D	3TK19 63-0A		1	1 unit	101	0.580
3TK14			D	3TK19 64-0A		1	1 unit	101	2.400
3TK15			D	3TK19 65-0A		1	1 unit	101	2.400
3TK17			D	3TK19 67-0A		1	1 unit	101	2.400

For rated control supply voltages for solenoid coils, see page 3/132.

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

For contactor type	3TC44	3TC48	3TC5	3TF68/69	3TK10/11/12/13	3TK14/15/17
Solenoid coil type	3TY7 403-0A..	3TY6 483-0A..	3TY6 523-0A.. 3TY6 566-0A..	3TY7 683-0C.. 3TY7 693-0C..	3TK19 70-0A.. 3TK19 72-0A..	3TK19 74-0A..
Rated control supply voltage U_s						

AC operation

Solenoid coils for 50 Hz

24 V AC	B0	B0	--	--	B0 ³⁾	--
110 V AC	F0	F0	F0 ¹⁾	--	F0 ³⁾	F0 ³⁾
230/220 V AC	P0 ¹⁾	P0 ¹⁾	P0 ¹⁾	--	P0 ³⁾	P0 ³⁾
240 V AC	U0	U0	--	--	U0 ³⁾	U0 ³⁾

AC operation

Solenoid coils for 50/60 Hz

24 V AC	C2	--	--	--	--	--
110 V AC	G2	--	--	--	--	--
120 V AC	K2	--	--	--	--	--
220 V AC	N2	--	--	--	--	--
230 V AC	L2	--	--	--	--	--
110 V ... 132 V AC	--	--	--	F7	--	--
200 V ... 240 V AC	--	--	--	M7	--	--
230 V ... 277 V AC	--	--	--	P7 ²⁾	--	--
380 V ... 460 V AC	--	--	--	Q7	--	--
500 V ... 600 V AC	--	--	--	S7	--	--

For contactor type	3TC4	3TB5, 3TC5	3TF68/69
Solenoid coil type	3TY6 443-0B.. 3TY6 483-0B..	3TY6 503-0B.. 3TY6 523-0B.. 3TY6 543-0B.. 3TY6 563-0B..	3TY7 683-0D.. 3TY7 693-0D..
Rated control supply voltage U_s			

DC operation

24 V DC	B4	B4	B4
48 V DC	W4	--	--
60 V DC	E4	--	--
110 V DC	F4	F4	F4
125 V DC	G4	--	G4
220 V DC	M4	M4	M4
230 V DC	P4	--	P4

- 1) Operating range at 220 V:
0.85 to 1.15 x U_s ;
lower operating range limit according to IEC 60947.
- 2) Lower operating range limit at 220 V:
0.85 x U_s according to IEC 60947.
- 3) Rated control supply voltage U_s :
50 Hz 60 Hz
B0: 24 V --
F0: 110 V 120 V
P0: 220 V to 230 V 240 V (only 3TK1 974)
U0: 230 V to 240 V --