

3TG10 Power Relays/Miniature Contactors

4-pole, 4 kW

Overview

Version

The 3TG10 power relays/miniature contactors with 4 main contacts are available with 6.3 mm × 0.8 mm screw terminals or flat connectors. The versions with screw terminals are climate-proof and finger-safe according to EN 61140.

The 3TG10 power relays/miniature contactors are small. Their width is 36 mm.

Application

Because they are hum-free they are suitable for use in household appliances and distribution boards in office and residential areas. They can also be used for applications where there is little space such as air conditioners, heating systems, pumps, and fans, i.e. for simple electrical controls.

AC and DC operation

EN 60947-4-1

Surge suppression

The 3TG10 power relays/miniature contactors have an integrated protective circuit against opening surges.

Overload and short-circuit protection

The 3UA7 overload relay can be used for overload protection. This applies to mounting onto contactors and to stand-alone installation.

Information about short-circuit protection by means of contactors can be found in the Technical specifications.

Selection and ordering data

Rated data		Utilization category		Main contacts	Rated control supply voltage U_s	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Operational current I_e up to 400 V	Power of three-phase loads at 50 Hz and 400 V	Operational current I_e up to 400 V ¹⁾	Power of three-phase loads at 50 Hz and 400 V				Order No.	Price per PU				
A	kW	A	kW	NO NC V								kg

With screw terminals, 4-pole For screw and snap-on mounting onto 35 mm standard mounting rail · Hum-free

AC operation, 45 ... 450 Hz		DC operation										
20	13	8.4	4	4	--	24 AC	▶	3TG10 10-0AC2	1	1 unit	101	0.157
						110 AC	▶	3TG10 10-0AG2	1	1 unit	101	0.158
						230 AC	▶	3TG10 10-0AL2	1	1 unit	101	0.156
				3	1	24 AC	▶	3TG10 01-0AC2	1	1 unit	101	0.157
						110 AC	▶	3TG10 01-0AG2	1	1 unit	101	0.158
						230 AC	▶	3TG10 01-0AL2	1	1 unit	101	0.157
				4	--	24 DC	▶	3TG10 10-0BB4	1	1 unit	101	0.157
				3	1	24 DC	▶	3TG10 01-0BB4	1	1 unit	101	0.157



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Flat connectors

Order No. Price per PU

With 6.3 × 0.8 mm flat connectors, 4-pole For screw and snap-on mounting onto 35 mm standard mounting rail · Hum-free

AC operation, 45 ... 450 Hz		DC operation										
16	10	8.4	4	4	--	24 AC	▶	3TG10 10-1AC2	1	1 unit	101	0.146
						110 AC	D	3TG10 10-1AG2	1	1 unit	101	0.146
						230 AC	D	3TG10 10-1AL2	1	1 unit	101	0.145
				3	1	24 AC	D	3TG10 01-1AC2	1	1 unit	101	0.147
						110 AC	D	3TG10 01-1AG2	1	1 unit	101	0.146
						230 AC	▶	3TG10 01-1AL2	1	1 unit	101	0.144
				4	--	24 DC	▶	3TG10 10-1BB4	1	1 unit	101	0.146
				3	1	24 DC	D	3TG10 01-1BB4	1	1 unit	101	0.146



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For accessories see page 3/123.

Accessories and Spare Parts

For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

Accessories

For contactor	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. kg
Type	A	mm ²							
Links for paralleling (star jumpers)									
3-pole, without connection terminal^{1) 2)}									
3TG10	16 star jumpers can be reduced by one pole	--	▶	3RT19 16-4BA31		1	1 unit	101	0.010
3-pole, with connection terminal^{1) 3)}									
3TG10	40	25	▶	3RT19 16-4BB31		1	1 unit	101	0.015
4-pole, with connection terminal^{1) 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.