538862

GC 25

Presentation

TeSys GC contactors are designed for use in modular panels and enclosures.
These contactors feature:

■ **Easy installation**
□ quick clip-on fixing and locking onto 35 mm omega rail,
□ easy connection by means of ready-to-tighten, captive, pozidrive screw terminals.

■ **Compact size**
All units have a common depth of 60 mm and width in modules of 17.5 mm (width of one module: 17.5 mm).

■ **User safety**
□ use of materials conforming to strictest fire safety standards,
□ live parts protected against direct finger contact,
□ completely safe operation,
□ state indication on front panel.

Standards

This range of modular contactors has been designed taking into account the requirements of international standard IEC 61095.
This standard is specific to “Electromagnetic contactors for domestic and similar use”.
It has very strict requirements, meeting the expectations of users, with regard to the safety of equipment and persons in “premises and areas accessible to the public”.
Conformity with this standard makes it possible to obtain the following quality labels without the need for additional tests: NF-USE, VDE, CEBEC, etc.

Applications

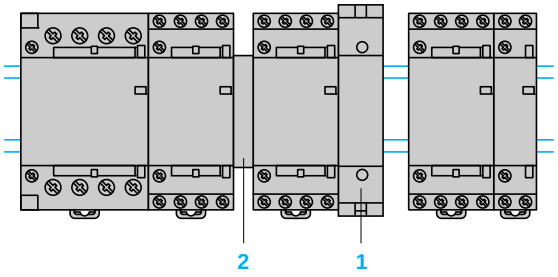
TeSys GC modular contactors are designed for switching all single-phase, 3-phase or 4-phase loads up to 100 A.

Power switching

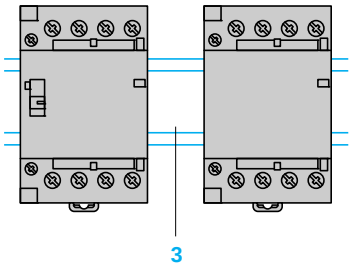
These contactors have multiple applications in industrial, agricultural and commercial premises, hospitals and the home, i.e. wherever switching of a specific supply is required:
■ lighting,
■ heating,
■ ventilation,
■ motorised shutters or gates.

Setting-up precautions

The contactor controls must be bounce free. If not, connect a coil suppression block 1 (GAP 21, 22 or 23) across the coil terminals ⩽ 250 V.
When several contactors which operate at the same time are mounted side by side, a GAC 5 ventilation 1/2 module 2 must be fitted every 2 contactors.



It is advisable to mount electronic units at the bottom of the modular panel and to separate them from electromechanical units by a space 3 equal to one module, or by 2 ventilation 1/2 modules (GAC 5).



Derating of contactors mounted in a modular enclosure if the temperature within the enclosure is > 40 °C

Contactor rating	40 °C	50 °C	60 °C *(1)*
16 A	16 A	14 A	13 A
25 A	25 A	22 A	20 A
40 A	40 A	36 A	32 A
63 A	63 A	57 A	50 A
100 A	100 A	87 A	80 A

(1) Ventilation 1/2 module must be fitted

Modular equipment
TeSys GC standard contactors

Contactor type				GC16	GC25	GC40	GC63	GC100
Environment								
Rated insulation voltage (Ui)	Conforming to IEC 61095		V	500				
	Conforming to VDE 0110		V	500				
Rated impulse withstand voltage (Uimp)			kV	4 in enclosure				
Conforming to standards				IEC 61095, VDE 0637-3 and IEC 60947-5 for auxiliary contacts				
Product certifications				NF- USE, VDE, CEBEC, ÖVE				
Degree of protection	Conforming to VDE 0106			Protection against direct finger contact (IP 20 open, IP 40 in enclosure)				
Protective treatment	Standard version			"TC"				
Ambient air temperature around the device	Storage		°C	- 40…+ 70				
	Operation		°C	- 5…+ 50 (0.85…1.1 Uc)				
Maximum operating altitude	Without derating		m	3000				
Operating positions	Without derating			± 30° in relation to normal vertical mounting plane				
Shock resistance 1/2 sine wave = 10 ms	Contactor open			10 gn				
	Contactor closed			15 gn				
Vibration resistance 5…300 Hz	Contactor open			2 gn				
	Contactor closed			3 gn				
Flame resistance				Conforming to IEC 61095				
Pole characteristics								
Number of poles				2, 3 or 4				
Rated operational current (Ie) (Ue ≤ 440 V)	In AC-7a (heating)		A	16	25	40	63	100
	In AC-7b (motor control)		A	5	8.5	15	25	–
Rated operational voltage (Ue)	Up to		V	250 two-pole contactors, 415 three and four-pole contactors				
Frequency limits	Of the operating current		Hz	400				
Conventional thermal current (Ith)	θ ≤ 50 °C		A	16	25	40	63	100
Rated breaking and making capacity	Conforming to IEC 61095 (AC-7b) I rms 400 V 3-phase		A	40	68	120	200	–
Permissible short time rating no current flowing for preceding 15 minutes with θ ≤ 40 °C	For 10 s		A	128	200	320	504	800
	For 30 s		A	40	62	100	157	250
Short-circuit protection by fuse or circuit breaker U ≤ 440 V	gl fuse		A	16	25	40	63	100
	Circuit-breaker I^2t (at 3 kA rms prospective)	230 V	A^2s	5000	10 000	16 000	18 000	–
		400 V	A^2s	9000	14 000	17 500	20 000	–
Average impedance per pole	At Ith and 50 Hz		mΩ	2.5	2.5	2	2	1
Power dissipated per pole	For the above operational currents		W	0.65	1.6	3.2	8	10
Maximum cabling c.s.a. Flexible cable without cable end	1 conductor		mm^2	6	6	25	25	35
	2 conductors		mm^2	4	4	16	16	–
Flexible cable with cable end	1 conductor		mm^2	6	6	16	16	35
	2 conductors		mm^2	1.5	1.5	4	4	–
Solid cable without cable end	1 conductor		mm^2	6	6	25	25	35
	2 conductors		mm^2	4	4	6	6	10
Tightening torque	Power circuit connections		N.m	0.8	0.8	3.5	3.5	3.5

Selection : pages 20003/2 to 20003/5
References : pages 20005/2 and 20005/3
Dimensions, schemes : pages 20006/2 and 20006/3

Contactor type				GC16, GC25 single or 2-pole	GC16, GC25 3 or 4-pole **GC40, GC63** 2-pole	GC40, GC63 3 or 4-pole **GC100** 2-pole	GC100 4-pole
Control circuit characteristics							
Rated control circuit voltage (Uc)		50 or 60 Hz	**V**	12…240 V, for other voltages, please consult your Regional Sales Office			
Control voltage limits (θ ≤ 50 °C)	50 Hz coils	Operational		0.85…1.1 Uc			
		Drop-out		0.2…0.75 Uc			
Average coil consumption at 20 °C and at Uc	∼ 50 Hz	Inrush	**VA**	15	34	53	106
		Sealed	**VA**	3.8	4.6	6.5	13
Maximum heat dissipation		50/60 Hz	**W**	1.3	1.6	2.1	4.2
Operating time		Closing "C"	**ms**	10…30			
		Opening "O"	**ms**	10…25			
Mechanical durability		In operating cycles		10^6			
Maximum operating rate at ambient temperature ≤ 50 °C		In operating cycles per hour		300			
Maximum cabling c.s.a.	Flexible cable without cable end	1 or 2 conductors	**mm²**	2.5			
	Flexible cable with cable end	1 conductor	**mm²**	2.5			
		2 conductors	**mm²**	1.5			
	Solid cable without cable end	1 or 2 conductors	**mm²**	1.5			
Tightening torque			**N.m**	0.8			
Instantaneous auxiliary contact characteristics							
Rated operational voltage (Ue)		Up to	**V**	250			
Rated insulation voltage (Ui)		Conforming to IEC 60947-5	**V**	500			
		Conforming to VDE 0110	**V**	500			
Conventional thermal current (Ith)		For ambient θ ≤ 50 °C	**A**	5			
Mechanical durability		Operating cycles		10^6			
Maximum cabling c.s.a.		Flexible or solid conductor	**mm²**	2.5			
Tightening torque			**N.m**	0.8			

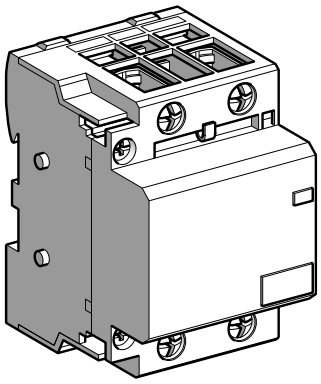
Modular equipment
Standard contactors TeSys GC

526285

GC 2520

526286

GC 4040



GC 10020

Standard contactors, TeSys GC

Maximum current rating category AC-7a	No. of poles		Number of 17.5 mm modules	Sold in lots of	Basic reference, to be completed by adding the voltage code *(1)*	Weight
A						kg
16	1	–	1	12	**GC 1610●●**	0.110
	2	–	1	12	**GC 1620●●**	0.110
	3	–	2	6	**GC 1630●●**	0.230
	4	–	2	6	**GC 1640●●**	0.230
	1	1	1	12	**GC 1611●●**	0.110
	2	2	2	6	**GC 1622●●**	0.230
25	1	–	1	12	**GC 2510●●**	0.110
	2	–	1	12	**GC 2520●●**	0.110
	3	–	2	6	**GC 2530●●**	0.230
	4	–	2	6	**GC 2540●●**	0.230
	1	1	1	12	**GC 2511●●**	0.110
	2	2	2	6	**GC 2522●●**	0.230
	–	2	1	12	**GC 2502●●**	0.110
	–	4	2	6	**GC 2504●●**	0.230
40	2	–	2	6	**GC 4020●●**	0.230
	3	–	3	4	**GC 4030●●**	0.350
	4	–	3	4	**GC 4040●●**	0.390
	1	1	2	6	**GC 4011●●**	0.230
	2	2	3	4	**GC 4022●●**	0.390
	–	2	2	6	**GC 4002●●**	0.230
	–	4	3	4	**GC 4004●●**	0.390
63	2	–	2	6	**GC 6320●●**	0.340
	3	–	3	4	**GC 6330●●**	0.390
	4	–	3	4	**GC 6340●●**	0.390
	1	1	2	6	**GC 6311●●**	0.340
	2	2	3	4	**GC 6322●●**	0.390
	–	2	2	6	**GC 6302●●**	0.340
	–	4	3	4	**GC 6304●●**	0.390
100	2	–	3	4	**GC 10020●●**	0.680
	4	–	6	2	**GC 10040●●**	0.780

(1) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

Volts	12	24	48	110	220/240
50 Hz	J5	B5	E5	F5	M5
60 Hz	J6	B6	E6	F6	M6

Selection : pages 20003/2 to 20003/5
Characteristics : pages 20004/2 and 20004/3
Dimensions, schemes : pages 20006/2 and 20006/3

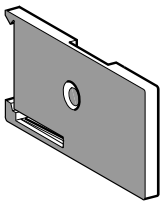
Modular equipment
Standard contactors TeSys GC

533715

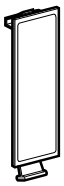
GAC 05●●

526287

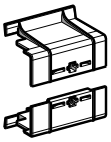
GAP 2●



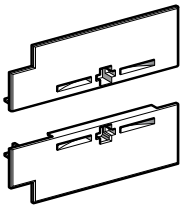
GAC 5



GA1 C●



GW 254



GW 63●

Instantaneous auxiliary contact blocks

Number of contacts	No. of poles			Reference	Weight
					kg
2	1	1	–	**GAC 0521**	0.016
	–	2	–	**GAC 0531**	0.016
	–	–	1	**GAC 0511**	0.016

Accessories

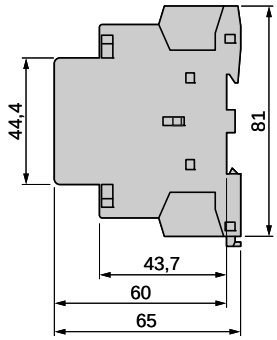
Description	For use on contactor	Number of modules	Operational voltage	Sold in lots of	Unit reference	Weight
			V			kg
Coil suppression blocks comprising 2 RC circuits	–	1	12…48	1	**GAP 21**	0.090
			110…240	1	**GAP 23**	0.090
Ventilation 1/2 module Clips onto ⊔ rail	–	1/2	–	10	**GAC 5**	0.015
Cover plates	–	1/2	–	10	**GA1 C7**	0.001
		1	–	10	**GA1 C6**	0.001
Set of sealable terminal covers (10 top parts + 10 bottom parts)	16 or 25 A 3 or 4 contacts	2	–	1	**GW 254**	0.040
	40 or 63 A 2 contacts	2	–	1	**GW 632**	0.040
	40 or 63 A 3 or 4 contacts	3	–	1	**GW 634**	0.050

Selection : pages 20003/2 to 20003/5
Characteristics : pages 20004/2 and 20004/3
Dimensions, schemes : pages 20006/2 and 20006/3

Dimensions

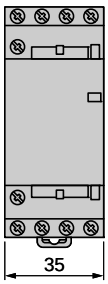
Contactors

Common side view

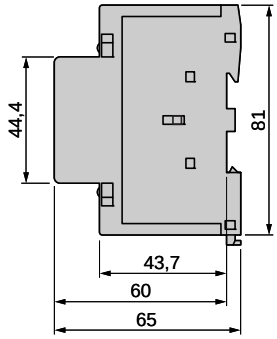


GC 1610, 1611, 1620
GC 2502, 2510, 2511, 2520
1 module

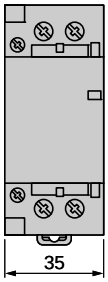
GC 1622, 1640
GC 2504, 2522, 2530, 2540
2 modules



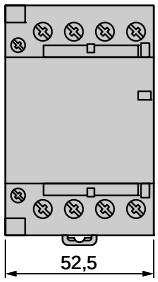
Common side view



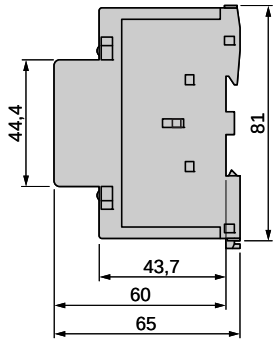
GC 4002, 4011, 4020
GC 6302, 6311, 6320
2 modules



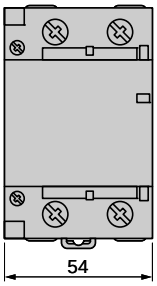
GC 4004, 4022, 4030, 4040
GC 6304, 6322, 6330, 6340
3 modules



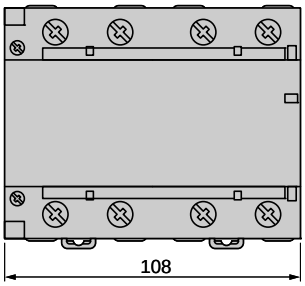
Common side view



GC 10020
3 modules

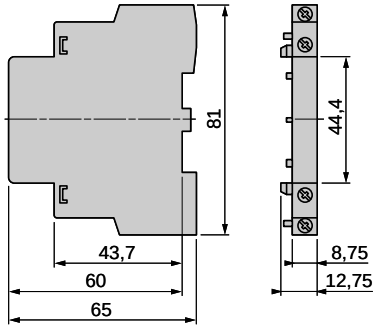


GC 10040
6 modules

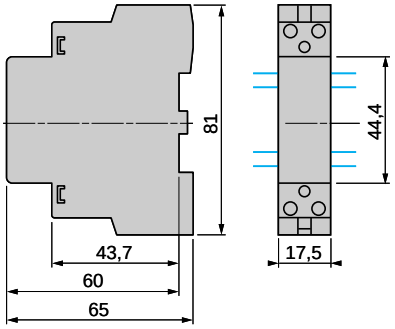


Dimensions

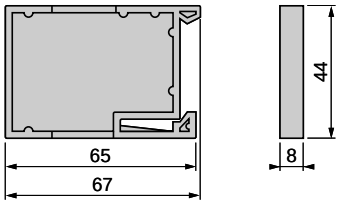
Auxiliary contacts
GAC 0511, 0531 and 0521



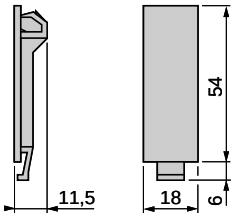
Coil suppression blocks
GAP 21, 22 and 23



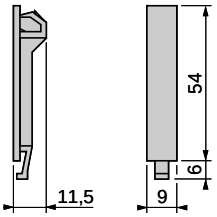
Clip-on ventilation 1/2 module
GAC 5



Cover plates
GA1 C6



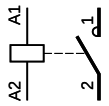
GA1 C7



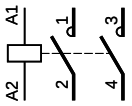
Schemes

Contactors

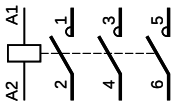
GC ●●10



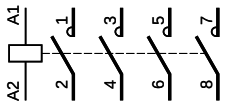
GC ●●20



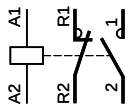
GC ●●30



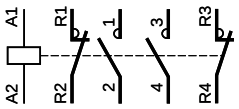
GC ●●40



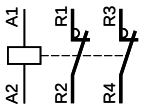
GC ●●11



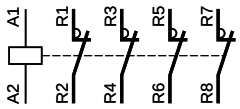
GC ●●22



GC ●●02

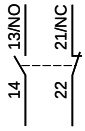


GC ●●04

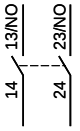


Auxiliary contacts

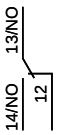
GAC 0521



GAC 0531



GAC 0511



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