



GHG 295

GHG 294

Technical data

Ex-control switch Typ 294 without and Typ 295 with measuring instrument

	with GHG 29 switch	with GHG 28 switch
Marking accd. to 94/9/EC	Ex II 2 G Ex ed ia IIC T5/T6 Ex II 2 D Ex tD A21 IP66 T80 °C	Ex II 2 G Ex ed ia IIC T5/T6 Ex II 2 D Ex tD A21 IP66 T80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1163	PTB 99 ATEX 1163
IECEX Certificate of Conformity	IECEX BKI 07.0011	IECEX BKI 07.0011
Marking accord. to IECEx	Ex ed ia IIC T5 or T6 Ex tD A21 IP66 T49 °C	Ex ed ia IIC T5 or T6 Ex tD A21 IP66 T49 °C
Permissible ambient temperature	-20 °C up to +40 °C -55 °C up to +47 °C (T6) ... +55 °C (T5) option	
Rated voltage	max. 500 V	max. 690 V
Rated current	16 A	20 A
Rated current with gold contact points	0.4 A	
Overload range (type 293 only)	10 fold - 25 sec. 25 fold - 4 sec. 50 fold - 1 sec. indicated 1 : 1.5	
Measuring range (type 293 only)	max. 0 - 25 A direct / n / 1A	
Accuracy (type 293 only)	Class 2.5	
Circuit (type 293 only)	Moving iron	
Rated making-/rated breaking capacity accd. EN 60947-5-1	AC-15: U_e 230 V / I_e 6 A U_e 400 V / I_e 4 A DC-13: U_e 24 V / I_e 2 A U_e 230 V / I_e 0.3 A	AC-15: U_e 230 V / I_e 8 A U_e 400 V / I_e 6 A DC-13: U_e 24 V / I_e 6 A U_e 230 V / I_e 0.4 A
Connecting terminals	2 x 0.5 - 2.5 mm ² or 1 x 1.0 - 6.0 mm ²	
Degree of protection accd. to EN 60529	IP66	
Cable glands/Gland plates/Enclosure drilling	1 x M25 (Ø 8 - 17 mm) ^{1) 2)}	
Dimensions (L x W x H)	GHG 294	170 x 130 x 129 mm
	GHG 295	260 x 160 x 129 mm
Weight	GHG 294	approx. 1.90 kg (1 level) approx. 2.05 kg (2 level)
	GHG 295	approx. 2.90 kg (1 level) approx. 3.05 kg (2 level)
Enclosure material	high quality cast aluminium-silicon (AlSi)	
Enclosure colour	grey RAL 7031	

¹⁾ Brass flange for metal entries available on request

²⁾ Control switches with direct indicating measuring instruments in the standard version are delivered with 2 looping terminals and PE terminal as well as M32 and M25 cable entries.

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Ordering code for control switch (Code 2) Code A - B1 - B2 - C - D - E1 - E2 - F

A	B1	B2	C	D	E	E2	F ¹⁾
GHG 29_	_	_	_	_	_	_	_

Code	Component	Code
A	control switch	GHG 294
	control switch with measuring instrument	GHG 295

Code	Switch mechanism	Code
B1	spring – engaging – spring	4
	engaging – engaging – engaging	5
	engaging – engaging	6
	spring – engaging – engaging	7
	engaging – engaging – spring	8

Code	Contact	silver contact points	Code	silver contact points
B2		060		034
		062		037
		065		049
		061		023
		063		019
		067		033
		011		024

Other versions as well as gold contact points are available on request.

Code	Inscription (labels)	Code	Inscription (labels)	Code
C	0 I	001	0 I II	018
	I II	002	AUS AUTO EIN	019
	STOP START	003	AUS HAND AUTO	020
	HAND AUTO	004	ÖRTLICH AUS FERN	021
	SENKEN HEBEN	005	START NORMAL STOP	022
	REMOTE LOCAL	006	OFF 0 ON	023
	I 0 II	007	HAND OFF AUTO	024
	AUS BETRIEB EIN	008	0 IN START	025
	AUS 0 EIN	009	MAN AUTO	026
	AUF 0 AB	010	START STOP	027
	Entriegelt 0 Verriegelt	011	HEBEN SENKEN	028
	OUT OF HAND	012	OFF ON	029
	LOCAL REMOTE AUTO	013	AUS EIN	030
	STOP 0 START	014	HAND AUTO	031
	HAND 0 AUTO	015	ON OFF	032
	AUF AUS ZU	016	I II III	033
	HAND AUS AUTO	017		



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Ordering code for control switch (Code 2) Code A - B1 - B2 - C - D - E1 - E2 - F

Code	Padlocking facility	Code
D	none <input type="checkbox"/>	0
	centre <input type="checkbox"/>	1
	left <input type="checkbox"/>	2
	right <input type="checkbox"/>	3

Code	Movement	Code
E1	direct connection	01
	CT connection 1 /A	02
	connection 0 - 20/24 mA (Scale 0-100% / 120%)	05
	connection 4 - 20/24 mA (Scale 0-100% / 120%)	06
	moving-coil connection 0 - 20/24 mA (Scale 0-100% / 120%)	07
	moving-coil connection 4 - 20/24 mA (Scale 0-100% / 120%)	08

Code	Measuring range/scale	Code	Measuring range/Scale	Code
E2	0 - 1	002	0 - 75 /112.5 A	013
	0 - 2.5 / 3.75 A ²⁾	003	0 - 100 / 150 A	014
	0 - 5 / 7.5 A ²⁾	004	0 - 150 / 225 A	015
	0 - 10 / 15 A ²⁾	005	0 - 200 / 300 A	016
	0 - 15 / 22.5 A	006	0 - 250 / 375 A	017
	0 - 20 / 30 A ²⁾	008	0 - 300 / 450 A	018
	0 - 30 / 45 A	009	0 - 400 / 600 A	019
	0 - 40 / 60 A	010	0 - 500 / 750 A	020
	0 - 50 / 75 A	011	0 - 600 / 900 A	021
	0 - 60 / 90 A	012	0 - 100% / 150%	031

Code	Built-in components	Description	Code
F1	entry type	Entry direct in enclosure	GEH
		Entry via plastic flange	FLK
		Entry via metal flange	FLM
F2	entry element	only threaded entry	BO
		Screw plug	SV
		Cable entry moulded plastic	GK
		Cable entry moulded metal ²⁾	GM ²⁾
		Cable entry with plug	GV
F3	size	M12, M16, M20, M25, M32, M40 Ø21, Ø26	M1 Ø ..
F4	number	Number of entries	..

¹⁾ The code will represent only a selected part of configuration..

²⁾ Only available with metal flange

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4 Example for ordering code (Code 2)

Control switch with silver contact points, Switching system „5“, Circuit „063“,

Labels „HAND-0-AUTO“, can be locked „0“,

Measuring instrument AM72 for CT connection „n/1A“, Scale „0 - 50/75 A“,

Cable entry 1 x threaded entry M25 on bottom direct entry.

Code A	B1	B2	C	D	E1	E2	F1	F2	F3	F4
GHG 295 /	5 /	063 /	015 /	1 /	2 /	011 /	GEH /	BO /	M25 /	1

Ordering details

Switching system	Circuit	Code	Labels	Order No.
Control switch type 294 with silver contact points				
Version with locking facility in „0“- or position „right (Code 3)“, cable gland 1 x M25 bottom.				
6		062	0	GHG 294 1000 R0001
6		065	0	GHG 294 1000 R0002
4		067	0	GHG 294 1000 R0003
8		067	0	GHG 294 1000 R0004
4		037	0	GHG 294 2000 R0002
8		037	0	GHG 294 2000 R0003
5		024	0	GHG 294 2000 R0004

Switching system	Circuit	Code	Labels	Order No.
Control switch with measuring instrument type 295 with silver contact points				
Version with padlocking facility in „0“- or position „left“, measuring instrument AM 72 for CT connection n/1A, Scale 0 - 100/150 %. 1 x M32 bottom.				
6		062	0	GHG 295 1000 R0001
6		065	0	GHG 295 1000 R0002



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Dimension drawing

