

## Ex-d-Built-in components



20 A 2-pole



24 A 4-pole



32 A 4-pole

## Technical data

### Installation contactor 20 A up to 32 A

Marking accd. to 94/9/EC	Ⓔ II 2 G Ex de IIC/IIB Gb / Ⓔ I M2 Ex de I		
EC-Type Examination Certificate	PTB 98 ATEX 1087 U		
IECEX Certificate of Conformity	IECEX BKI 07.0038 U		
Marking accd. to IECEX	Ex de IIC		
Operating temperature range	-55 °C up to +110 °C (size 1, 2 - IIC) -20 °C up to +110 °C (size 3, 4 - IIC) -55 °C up to +110 °C (size 3, 4 - IIB)		
Application temperature <sup>1)</sup>	-20 °C up to +55 °C (size 3, 4 - IIC) -55 °C up to +55 °C (size 0, 1, 2 - IIC; size 3, 4 - IIB)		
Contactor	20 A	24 A	32 A
Rated voltage			
main contact	max. 250 V	440 V	440 V
aux. contact		440 V	440 V
Control voltage A1-A2	24 V up to 400 V AC 50-60 Hz		
Rated current			
main contact NC	20 A	24 A	32 A
main contact NO	20 A	24 A	32 A
aux. contact			6 A
Rated making/breaking capacity accd. to EN 60947-4-1			
main contact AC1 - U <sub>e</sub> 230 V	P <sub>e</sub> 4.0 kW	P <sub>e</sub> 9.0 kW	P <sub>e</sub> 15.2 kW
main contact AC1 - U <sub>e</sub> 400 V	-	P <sub>e</sub> 16 kW	P <sub>e</sub> 26 kW
main contact AC3 - U <sub>e</sub> 230 V	P <sub>e</sub> 1.3 kW	P <sub>e</sub> 2.2 kW	P <sub>e</sub> 5.5 kW
main contact AC3 - U <sub>e</sub> 400 V	-	P <sub>e</sub> 4.0 kW	P <sub>e</sub> 11 kW
DC3 1 current path U <sub>e</sub> 60 V/230 V	-	I <sub>e</sub> 4 A/0.2 A	I <sub>e</sub> 5 A/0.3 A
DC3 2 current paths U <sub>e</sub> 60 V/230 V	-	I <sub>e</sub> 14 A/1.0 A	I <sub>e</sub> 16 A/1.1 A
DC3 3 current paths U <sub>e</sub> 60 V/230 V	-	I <sub>e</sub> 24 A/4.0 A	I <sub>e</sub> 34 A/4.5 A
aux. contact up to U <sub>e</sub> 230 V	-		I <sub>e</sub> 4 A
aux. contact up to U <sub>e</sub> 400 V	-	I <sub>e</sub> 3 A	I <sub>e</sub> 3 A
Back-up fuse	20 A gL	35 A gL	63 A gL
Connecting terminals			
main contact	2 x 10 mm <sup>2</sup> fine wire with wire end sleeve/single wire		
aux. contact/Control A1-A2	2 x 2.5 mm <sup>2</sup> fine wire with wire end sleeve/single wire		
Weight	0.55 kg size 0	1.2 kg size 3	1.65 kg size 4
Enclosure material	glass-fibre reinforced polyester		
Enclosure colour	black		
Options	aux. contact		

<sup>1)</sup> The limits of the operating temperature range and the max. permissible temperature rise of the components have to be taken into account. See also pages 2.6.31.



20 A 2-pole

## Ex-d-Built-in components

Installation contactor 20 A (Module size 0 - 35 mm)

## Ordering details

Control voltage A1 - A2		Contacts	Order No.
50 Hz	60 Hz		
24 V	27 ... 28 V	2 NO	GHG 618 0001 R0010
24 V	27 ... 28 V	2 NC	GHG 618 0001 R0011
24 V	27 ... 28 V	1 NO / 1 NC	GHG 618 0001 R0012
42 V	48 V	2 NO	GHG 618 0001 R0007
42 V	48 V	2 NC	GHG 618 0001 R0008
42 V	48 V	1 NO / 1 NC	GHG 618 0001 R0009
110 V	125 ... 127 V	2 NO	GHG 618 0001 R0004
110 V	125 ... 127 V	2 NC	GHG 618 0001 R0005
110 V	125 ... 127 V	1 NO / 1 NC	GHG 618 0001 R0006
230 V	255 V	2 NO	GHG 618 0001 R0001
230 V	255 V	2 NC	GHG 618 0001 R0002
230 V	255 V	1 NO / 1 NC	GHG 618 0001 R0003
231 ... 244 V	240 V	2 NO	GHG 618 0001 R0016
231 ... 244 V	240 V	2 NC	GHG 618 0001 R0017
231 ... 244 V	240 V	1 NO / 1 NC	GHG 618 0001 R0018
400 V		2 NO	GHG 618 0001 R0013
400 V		2 NC	GHG 618 0001 R0014
400 V		1 NO / 1 NC	GHG 618 0001 R0015

**Ex-d-Built-in components**



24 A 4-pole/3-pole + HS

**Ex-d-Built-in components**

Installation contactor 24 A (Module size 3 - 70 mm)

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# GHG 618 3118 RXXXX

Coil voltage / Contacts

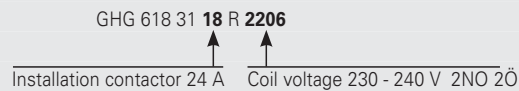
**Ordering details**

Control voltage AC 40 – 400 Hz/DC	Contacts (XXXX)			
	1 NO / 3 NC	2 NO / 2 NC	3 NO / 1 NC	4 NO
24 V	1301	2201	3101	4001
42 V	1302	2202	3102	4002
48 V	1303	2203	3103	4003
110 ... 120 V	1304	2204	3104	4004
230 ... 240 V	1306	2206	3106	4006
400 ... 415 V	1307	2207	3107	4007

Control voltage AC 40 – 400 Hz/DC	Contacts (XXXX)		
	1 NO / 2 NC + 1 AC	2 NO / 1 NC + 1 AC	3 NO + 1 AC
12 V	1309	2209	3109
24 V	1311	2211	3111
110 ... 120 V	1314	2214	3114
230 ... 240 V	1316	2216	3116
400 ... 415 V	1317	2217	3117

**Example**

GHG 618 3118 RXXXX





32 A 4-pole

**Ex-d-Built-in components**

Installation contactor 32 A (Module size 4 - 105 mm)

# GHG 618 4109 RYYYY

Coil voltage / Contacts

**Coil voltage and contacts**

Coil voltage AC 40 – 400 Hz/DC	Contacts (YYYY)		
	4 NO	4 x NO + 1NC (AC)	4 x NO + 1NO (AC)
24 V	4001	4011	4101
48 V	4003	4013	4103
110 V	4004	4014	4104
240 V	4005	4015	4105
230 V	4006	4016	4106
400 V	4007	4017	4107
415 V	4008	4018	4108

**Example**

GHG 618 41 09 RYYYY

GHG 618 41 **09 R 4015**

Installation contactor 32 A      Coil voltage 240 V 1NC

**HK = main contact**

**AC = aux. contact**

**Ex-d-Built-in components**



20 A 2-pole



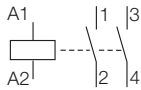
24 A 4-pole



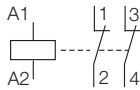
32 A 4-pole

**Termination diagram**

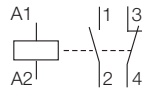
2 S



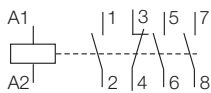
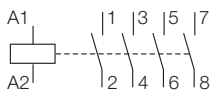
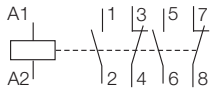
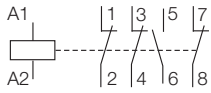
2 Ö



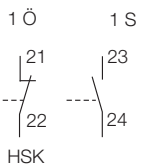
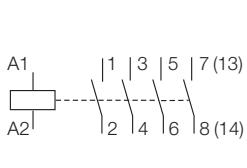
1 S + 1 Ö



**Installation contactor 20 A**



**Installation contactor 24 A**



**Installation contactor 32 A**

AC = aux. contact



32 A 4-pole

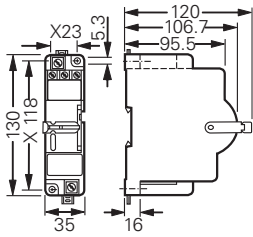


24 A 4-pole

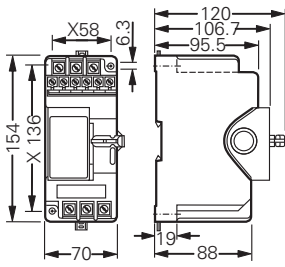


20 A 2-pole

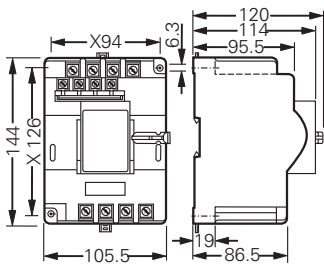
**Dimension drawing**



**Module size 0**



**Module size 3**



**Module size 4**

X = fixing dimension