



Control switch

Features

- For Zone 1 and 2, 21 and 22
- Positive break operation
- Latched and momentary-contact positions
- Easy installation
- Customer-specific solutions

Description

This control switch has been designed to solve the variety of problems encountered in chemical and petrochemical plants and on explosion-proof electrical machinery in zones 1 and 2 and in Zone 21 and 22. Four switch contacts as opening and closing elements in different permutations permit a variety of functions. The opener has a positive break operation. The switch actuator offers latched and momentary-contact positions with different switch positions. The control switch is supplied in double or triple ComEx enclosures, or in combination with other command devices, in control units. The actuating element can be locked with up to max. 3 padlocks.

Explosion protection

Ex protection type

- Ex II 2G Ex ed IIC T6
- Ex II 2D Ex tD A21 IP 66 T 80 °C

Class I, Zone 1 AEx e IIC, Ex ed II C
Class I, Div. 2, Groups A, B, C, D

Certification

PTB 00 ATEX 1068
UL E184198
IECEx PTB 08.0022
INMETRO 2004 EC02 CP003

Permissible ambient temperatures

-55 °C to +60 °C
-20 °C to +60 °C for Zone 21 and 22

Technical data

Connection

Terminals 2.5 mm²

Conductor terminals

4 x 2.5 mm²

Rated insulation voltage

max. AC 690 V

Rated current

max. 16 A

Cable entry

Standard version:

M20 x 1.5 for cables with Ø 6 to 12 mm

Special version:

M20 x 1.5 for cables with Ø 5 to 9 mm
M25 x 1.5 for cables with Ø 13 to 18 mm
M25 x 1.5 for cables with Ø 9 to 16 mm

Enclosure material

Thermoplastic

Protection class

IP 66

Contact material

AgSnO₂

Switching function

4 switch contacts
NC/NO in different switch permutations
Latching and momentary-contact functions with different switch positions

Contacts

contacts with positive break operation (self-cleaning)

Switch isolator (main motor switch)

DIN EN 60947-3: 2006
DIN EN 60947-3: 2008

P/AC-3/AC-23 A	AC-3	AC-23
230 V	3 ph/3 kW	1 ph/2.2 kW
400 V	3 ph/5.5 kW	1 ph/3 kW

I_e = AC-23/400 V/10 A

Control switch according to DIN EN 60947-5-1 (auxiliary circuit switch)

AC-15	400 V	10 A
AC-12	400 V	16 A
DC-13	24 V	1 A

Electrical data

Rated insulation voltage

U_i = 690 V
U_e = 400 V

Rated impulse strength

U_{imp} = 6 kV

Conditional rated short/circuit current at 400 V

i_e = 4 kA

Short circuit current (general-purpose l.v.h.b.c. back-up fuse for the protection of cables and circuits)

max. 16 A

Nominal thermal current

(+40 °C) I_{the} = 16 A
(+60 °C) I_{the} = 11 A

Dimensions

See dimensions for complete device



Selection chart

Labelling	Code no.	Labelling	Code no.	Switching arrangement of control switch	Code no.	Switching arrangement of control switch	Code no.
0 - I	01	LOWER - RAISE	14				
I - II	02	REMOTE - LOCAL	15		A01		C06
I - 0 - II	03	OFF - OPERATION - ON	16				
0 - I - II	04	OFF - 0 - ON	17		A02		C07
0 - I - II - III	05	UP - 0 - DOWN	18				
0 - I - II - III - IV	06	OUT - OFF - MANUAL	19				
AUS - EIN	07	LOCAL - REMOTE - AUTO	20		A03		E08
OFF - ON	08	STOP - 0 - START	21				
MANUAL - 0 - AUTO	09	AUS - AUTO - EIN	22		A04		E09
MANUAL - 0 - AUTO - ON	10	OFF - AUTO - ON	23				
MANUAL - OPERATION - I	11	0 - IN - START	24				
STOP - START	12	UNLOCKED - LOCKED	25		H05		L01
MANUAL - AUTO	13						
				Other variants available.	Switching arrangement for switch isolator		
							N01
							N02

➔ Complete order no.

Please enter code numbers.

Control unit, double **07-3512-10G**

Control unit, triple **07-3513-10G**

Labelling position selector

Switching arrangement

Switch module or indicator light

Other labellings and switching arrangements on request. Technical data subject to change without notice.

*In principle, there are 3 bore holes at the protective shroud for padlocks.
Where no further information is given on the end position, bore holes are drilled in the position 0 (I) or as requested.