# ■ Pushbuttons, Selector Switches, Pilot Lights, Buzzers

• Pushbutton, selector switches, emergency stop pushbutton switches (AR, AG, AM series)

Panel cutting ø22.3	Classification	Withstand	Continuous						-
Ø22.3		voltage	current	Operation	nal current [	[A]	others	license No.	
022.0	Pushbutton (illuminated)	690V AC/DC	10A	(3/4/5 n	otches), illum		Conforming to EN60947-5-1	R9551062	Done (on nameplate)
	Selector (illuminated)			Rated	AC-15	DC-13		R9551060	
ø30.5	Pushbutton			operatio	g (coil load)			R9551062	-
				24 V 120 V	6 A 6 A	2 A -			
	Selector (illuminated)			240 V	- 6 A	-		R9551060	
□27.5	Pushbutton			480 V 600 V	2.5 A 2 A	- -		R9551062	-
				- Other th	an above				
	Selector			Rated operatig	AC-15	DC-13 (coil load)		R9551060	
ø22.3	Pushbutton				6 A	4A <vg:1.5a></vg:1.5a>		R9551062	
					6 A	-			
	Selector			125 V	-	1.3A <vg:0.3a></vg:0.3a>		R9551060	_
				240 V	6 A <vg:3a></vg:3a>	-		10001000	
	Emorgonoviston			250 V	-	0.45A <vg:0.15a></vg:0.15a>	Conforming to	B50029146	_
	pushbutton			480 V	2.5A <vg:-></vg:->	-	EN60947-5-1/	VGE, VGF	
	With trigger action mechanism With forced opening			600 V	2 A <vg:-></vg:->	-			
	□27.5	(illuminated)   Ø30.5 Pushbutton (illuminated)   Selector (illuminated)   □27.5 Pushbutton   Ø22.3 Pushbutton   Ø22.3 Pushbutton   Selector Selector   Ø21.3 Pushbutton   Selector Selector   Ø22.3 Pushbutton   Selector Selector   Ø21.3 Selector   Ø22.3 Pushbutton   Selector Selector   Ø21.3 Selector   Ø22.3 Pushbutton   Selector Selector   Selector Selector </td <td>(illuminated)   Ø30.5 Pushbutton (illuminated)   Selector (illuminated)   □27.5 Pushbutton   Selector   Ø22.3 Pushbutton   Selector   Ø21.3 Pushbutton   Selector   Ø22.3 Pushbutton   Selector   With trigger action (illuminated)   With trigger action mechanism With forced opening</td> <td>(illuminated) Ø30.5 Pushbutton (illuminated) Selector (illuminated) D27.5 Pushbutton Selector Ø22.3 Pushbutton Selector Emergency stop pushbutton (illuminated) With trigger action mechanism With forced opening</td> <td>Selector (illuminated) Rated operation voltage 24 V   Ø30.5 Pushbutton (illuminated) 120 V   Selector (illuminated) 125 V   240 V 250 V   480 V 600 V   Other th Rated operatig voltage   Ø22.3 Pushbutton   Selector 24 V   Selector 24 V   125 V 125 V   Ø22.3 Pushbutton   Selector 24 V   120 V 125 V   Selector 24 V   120 V 125 V   Selector 240 V   With trigger action mechanism 480 V   With forced opening 600 V</td> <td>Selector (illuminated) Rated operatig (coil load) AC-15 (coil load)   Ø30.5 Pushbutton (illuminated) 120 V 6 A   Selector (illuminated) 125 V -   □27.5 Pushbutton 240 V 6 A   250 V - - 480 V 2.5 A   Ø22.3 Pushbutton 24 V 6 A 120 V 6 A   Selector Selector - 480 V 2.5 A -   Ø22.3 Pushbutton 24 V 6 A 120 V 6 A   Ø22.3 Pushbutton - - - - -   Ø22.3 Pushbutton - - - - - - -   Ø22.3 Pushbutton -</td> <td>Rated operating (illuminated)Rated operating (coil load) (coil load) (coil load) (coil load) (coil load)<math>\emptyset 30.5</math>Pushbutton (illuminated)<math>24 \vee 6A</math> <math>24 \vee 6A</math> <math>250 \vee -<math>0.23 A</math> <math>480 \vee 2.5 A</math> <math>-</math> <math>0.23 A</math> <math>480 \vee 2.5 A</math> <math>-</math> <math>-</math> <math>0.23 A</math> <math>480 \vee 2.5 A</math> <math>-</math> <math>-</math> <math>0.23 A</math> <math>-</math> <math>-</math> <math>0.23 A</math> <math>-</math> <math>-</math> <math>0.23 A</math> <math>-</math> <math>-</math> <math>0.23 A</math> <math>-</math> <math>-</math> <math>-</math> <math>0.23 A</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> <math>-</math> 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<math>CO \vee 2A</math><math>C-13</math> <math>CO \vee 2A</math><math>\Box 24 \vee 6A &lt; VG:3A &gt;</math> <math>24 \vee 6A &lt; VG:3A &gt;</math> <math>250 \vee</math><math>C-13</math> <math>CO \vee 2A</math><math>\Box 24 \vee 6A &lt; VG:3A &gt;</math> <math>24 \vee 6A &lt; VG:3A &gt;</math> <math>250 \vee</math><math>C-13</math> <math>CO \vee 2A</math><math>\Box 24 \vee 6A &lt; VG:3A &gt;</math> <math>250 \vee</math><math>C-13</math> <math>CO \vee 2A <math>-VG:-3</math><math>\Box 20 \vee 6A &lt; VG:3A &gt;</math> <math>250 \vee</math><math>C-13</math> <math>CO \wedge 2A</math><math>\Box 20 \vee 6A &lt; VG:3A &gt;</math> <math>250 \vee</math><math>C-13</math> <math>CO \vee 2A <math>-VG:-3</math><math>\Box 20 \vee 6A &lt; VG:A &gt;</math> <math>-VG:-3 \sim</math><math>C-13</math> <math>CO \vee CO \sim 2A <math>-VG:-3 \sim</math><math>\Box 0 \vee V = 2.5A</math> <math>V = -VG:-3 \sim</math><math>C-13</math> <math>CO \vee CO \sim 2A</math> <math>-VG:-3 \sim</math><math>\Box 0 \vee V = 2.5A</math> <math>-VG:-3 \sim</math><math>C-15A</math> <math>-VG:-3 \sim</math><math>\Box 0 \vee V = 2.5A</math> <math>-VG:-3 \sim</math><math>C-10</math> <math>-VG:-3 \sim</math><!--</math--></math></math></math></math></td> <td>Selector (illuminated)R9551060</td>	(illuminated)   Ø30.5 Pushbutton (illuminated)   Selector (illuminated)   □27.5 Pushbutton   Selector   Ø22.3 Pushbutton   Selector   Ø21.3 Pushbutton   Selector   Ø22.3 Pushbutton   Selector   With trigger action (illuminated)   With trigger action mechanism With forced opening	(illuminated) Ø30.5 Pushbutton (illuminated) Selector (illuminated) D27.5 Pushbutton Selector Ø22.3 Pushbutton Selector Emergency stop pushbutton (illuminated) With trigger action mechanism With forced opening	Selector (illuminated) Rated operation voltage 24 V   Ø30.5 Pushbutton (illuminated) 120 V   Selector (illuminated) 125 V   240 V 250 V   480 V 600 V   Other th Rated operatig voltage   Ø22.3 Pushbutton   Selector 24 V   Selector 24 V   125 V 125 V   Ø22.3 Pushbutton   Selector 24 V   120 V 125 V   Selector 24 V   120 V 125 V   Selector 240 V   With trigger action mechanism 480 V   With forced opening 600 V	Selector (illuminated) Rated operatig (coil load) AC-15 (coil load)   Ø30.5 Pushbutton (illuminated) 120 V 6 A   Selector (illuminated) 125 V -   □27.5 Pushbutton 240 V 6 A   250 V - - 480 V 2.5 A   Ø22.3 Pushbutton 24 V 6 A 120 V 6 A   Selector Selector - 480 V 2.5 A -   Ø22.3 Pushbutton 24 V 6 A 120 V 6 A   Ø22.3 Pushbutton - - - - -   Ø22.3 Pushbutton - - - - - - -   Ø22.3 Pushbutton -	Rated operating (illuminated)Rated operating (coil load) (coil load) (coil load) (coil load) (coil load) $\emptyset 30.5$ Pushbutton (illuminated) $24 \vee 6A$ $24 \vee 6A$ $250 \vee -0.23 A480 \vee 2.5 A-0.23 A480 \vee 2.5 A--0.23 A480 \vee 2.5 A--0.23 A--0.23 A--0.23 A--0.23 A---0.23 A--$	Selector (illuminated)Rated operatig (coil load)DC-13 (coil load) $\emptyset 30.5$ Pushbutton (illuminated) $AC-15$ operatig (coil load)DC-13 (coil load)Selector (illuminated) $24 \vee 6A$ $2A$ $24 \vee 6A$ $-$ $250 \vee  \Box 27.5$ Pushbutton $C-15$ $CO \vee 6A$ $-$ $C-12S \vee  \Box 27.5$ Pushbutton $C-15$ $CO \vee 2A$ $-$ $CO \vee 2A$ $\Box 22.3$ Pushbutton $C-15$ $Coil load)C-13(coil load)\emptyset 22.3PushbuttonC-15CO \vee 2AC-13(coil load)\emptyset 22.3PushbuttonC-15CO \vee 2AC-13CO \vee 2A\Box 24 \vee 6A < VG:3A >24 \vee 6A < VG:3A >250 \veeC-13CO \vee 2A\Box 24 \vee 6A < VG:3A >24 \vee 6A < VG:3A >250 \veeC-13CO \vee 2A\Box 24 \vee 6A < VG:3A >250 \veeC-13CO \vee 2A -VG:-3\Box 20 \vee 6A < VG:3A >250 \veeC-13CO \wedge 2A\Box 20 \vee 6A < VG:3A >250 \veeC-13CO \vee 2A -VG:-3\Box 20 \vee 6A < VG:A >-VG:-3 \simC-13CO \vee CO \sim 2A -VG:-3 \sim\Box 0 \vee V = 2.5AV = -VG:-3 \simC-13CO \vee CO \sim 2A-VG:-3 \sim\Box 0 \vee V = 2.5A-VG:-3 \simC-15A-VG:-3 \sim\Box 0 \vee V = 2.5A-VG:-3 \simC-10-VG:-3 \sim$	Selector (illuminated)R9551060

• Pilot lights, buzzers (DR, DG, DM series)

Туре	Specification	EN/IEC/		CE marking	
	Panel cutting	Withstand voltage	others	license No.	
DR22	ø22.3	690 V AC/DC (Without transformer 300V)	Conforming to EN60947-5-1		Done (on inner
DR30	ø30.5				packing case and
DG28	□27.5				nameplate)
DM22	ø22.3				

Pushbutton switches, selector switches, emergency stop pushbutton switches (AH164, AH165, AH165-2, AH225, AG, AR22A, AR30A series)

Туре	e Specification					EN/IEC/ others	ΤÜV	CE marking		
	Panel Classification Withstand Continuous Operational current [A] cutting voltage current				[A]		license No.			
AH164	ø16.2	Pushbutton	250V AC/DC	5A	Class	100–120V	200–240V	Conforming to EN60947-5-1	R9250087	Done (on
		Selector	-		AC-15	0.3 A	0.3 A		R9250088	nameplate)
AH165	-	Pushbutton	_		AC-13 AC-12	1.0 A 1.5 A	0.7 A 1.0 A		R9250087	-
		Selector	_		Class	24V	100–125V		R9250088	-
AH165-2	-	Pushbutton			DC-13 DC-12	0.7A 1.0 A	0.15 A 0.2 A		R9250087	-
		Selector	-						R9250088	
AH225	ø22.3	Pushbutton							R9250087	
		Selector							R9250088	
AG225	□22.5	Pushbutton							R9250087	
		Selector							R9250088	
AR22A	ø22.3	Joy stick selector						Conforming to EN60947-5-1	R2050803	Done (on inner packing
AR30A	ø30.5	switches								case and nameplate)

## • Pilot lights (AH164, AH165 series)

Туре	Specification		EN/IEC/	TÜV license	CE marking
	Panel cutting	Withstand voltage	others	No.	
AH164	ø16.2	250 V AC/DC	Conforming to	R9250089	Done
AH165			EN60947-5-1		(on nameplate)

#### Buzzers (AH164, AH165 series)

Туре	Specification		EN/IEC/	TÜV license	CE marking
	Panel cutting	Withstand voltage	others	No.	
AH164-TX2	ø16.2	60 V AC/DC	Conforming to	J9950092	Done
AH165-X			EN60947-5-1		(on nameplate)

### Lock ring

Туре	Applicable type	Remarks
AHX2601	AH165-2	- Conforms to "prevent stationary part from rotating", a EN60204-1 requirement.
AHX082	AR30	
AR9Y715	AR22	

#### • Terminal cover

Туре	Applicable type	Remarks
AHX2602	AH164, 165, 165-2	- Makes it easy "to secure IP2X", a requirement of EN60204-1.
AHX823	AH164, 165 With transformer	

Notes 1: Types AR22, AR30, AM22, DR22, DR30 and DM22: "Products with IP2X-compatible terminal (specify ZB at the end of the type)" are provided as special products.

2: The AR22VGE/AR22VGF type is provided with IP2X contact as the standard feature.