





Digital output modules

Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00	
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10	
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00	
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00	

Order number	222-1BF00	222-1BF10	222-1BF20	222-1BF30
Figure				
Type	SM 222, DO 8xDC 24V 1A	SM 222, DO 8xDC 24V 2A	SM 222, DO 8xDC 24V 2A	SM 222, DO 8xDC 24V 0.5A ECO
General information				
Note	-	-	-	-
Features	<ul style="list-style-type: none"> ▶ 8 outputs, ▶ DC 24 V, ▶ Output current 1A 	<ul style="list-style-type: none"> ▶ 8 outputs, ▶ DC 24 V, ▶ Output current 2 A 	<ul style="list-style-type: none"> ▶ 8 outputs, ▶ Isolation in 4 groups per 2 outputs ▶ DC 24 V, ▶ Output current 2 A 	<ul style="list-style-type: none"> ▶ 8 outputs, ▶ DC 24 V, ▶ Output current 0.5 A
Current consumption/power loss				
Current consumption from backplane bus	70 mA	70 mA	70 mA	70 mA
Power loss	-	-	-	-
Technical data digital outputs				
Number of outputs	8	8	8	8
Cable length, shielded	1000 m	1000 m	1000 m	1000 m
Cable length, unshielded	600 m	600 m	600 m	600 m
Rated load voltage	DC 20.4...28.8 V	DC 20.4...28.8 V	DC 20.4...28.8 V	DC 20.4...28.8 V
Current consumption from load voltage L+ (without load)	10 mA	10 mA	10 mA	10 mA
Output current at signal "1", rated value	1 A	2 A	2 A	0.5 A
Output delay of "0" to "1"	-	-	-	max. 100 µs
Output delay of "1" to "0"	-	-	-	max. 350 µs
Minimum load current	-	-	-	-
Lamp load	5 W	-	-	5 W
Parallel switching of outputs for redundant control of a load	not possible	not possible	not possible	not possible
Parallel switching of outputs for increased power	not possible	not possible	not possible	not possible
Actuation of digital input	-	-	-	-
Switching frequency with resistive load	max. 1000 Hz	max. 1000 Hz	max. 1000 Hz	max. 1000 Hz
Switching frequency with inductive load	max. 0.5 Hz	max. 0.5 Hz	max. 0.5 Hz	max. 0.5 Hz
Switching frequency on lamp load	max. 10 Hz	max. 10 Hz	max. 10 Hz	max. 10 Hz
Internal limitation of inductive shut-off voltage	L+ (-52 V)	L+ (-52 V)	L+ (-52 V)	L+ (-52 V)
Short-circuit protection of output	yes, electronic	yes, electronic	yes, electronic	yes, electronic
Trigger level	1.5 A	3 A	3 A	1 A
Number of operating cycle of relay outputs	-	-	-	-
Switching capacity of contacts	-	-	-	-
Output data size	1 Byte	1 Byte	1 Byte	1 Byte

Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00		
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10		
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00		
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00		

Order number	222-1BF00	222-1BF10	222-1BF20	222-1BF30
Status information, alarms, diagnostics				
Status display	green LED per channel	green LED per channel	green LED per channel	green LED per channel
Interrupts	no	no	no	no
Process alarm	no	no	no	no
Diagnostic interrupt	no	no	no	no
Diagnostic functions	no	no	no	no
Diagnostics information read-out	none	none	none	none
Supply voltage display	green LED per group	green LED per group	green LED per group	green LED per group
Group error display	red SF LED	red SF LED	red LED per group	red SF LED
Channel error display	none	none	none	none
Isolation				
Between channels	-	-	-	-
Between channels of groups to	8	8	2	8
Between channels and backplane bus	✓	✓	✓	✓
Insulation tested with	DC 500 V	DC 500 V	DC 500 V	DC 500 V
Mechanical data				
Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm
Weight	100 g	100 g	90 g	90 g
Environmental conditions				
Operating temperature	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C
Certifications				
UL508 certification	yes	yes	yes	yes

Connections, Interfaces

Signal modules digital Digital output modules						
222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00		
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10		
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00		
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00		

222-1BF00

222-1BF10

222-1BF20

222-1BF30

System SLO

System 100V

System 200V

System 300S

System 500S

HMI

Software





Accessories

Appendix

Digital output modules

Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00	
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10	
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00	
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00	

Order number	222-1BF50	222-1BH00	222-1BH10	222-1BH20
Figure				
Type	SM 222, DO 8xDC 24V NPN	SM 222, DO 16xDC 24V 0.5A	SM 222, DO 16xDC 24V 1A	SM 222, DO 16xDC 24V 2A
General information				
Note	-	-	-	-
Features	<ul style="list-style-type: none"> ▸ 8 Low-Side outputs, ▸ Output current 0.5 A 	<ul style="list-style-type: none"> ▸ 16 outputs, ▸ DC 24 V, ▸ Output current 0.5 A, ▸ LED status display on conversion module UB4x 	<ul style="list-style-type: none"> ▸ 16 outputs, ▸ DC 24 V, ▸ Output current 1 A 	<ul style="list-style-type: none"> ▸ 16 outputs, ▸ DC 24 V, ▸ Output current 2 A
Current consumption/power loss				
Current consumption from backplane bus	50 mA	120 mA	120 mA	120 mA
Power loss	1.5 W	-	-	-
Technical data digital outputs				
Number of outputs	8	16	16	16
Cable length, shielded	1000 m	1000 m	1000 m	1000 m
Cable length, unshielded	600 m	600 m	600 m	600 m
Rated load voltage	DC 20.4...28.8 V	DC 20.4...28.8 V	DC 20.4...28.8 V	DC 20.4...28.8 V
Current consumption from load voltage L+ (without load)	15 mA	10 mA	10 mA	10 mA
Output current at signal "1", rated value	0.5 A	0.5 A	1 A	2 A
Output delay of "0" to "1"	10 ms	-	-	-
Output delay of "1" to "0"	50 ms	-	-	-
Minimum load current	-	-	-	-
Lamp load	-	-	-	-
Parallel switching of outputs for redundant control of a load	not possible	not possible	not possible	not possible
Parallel switching of outputs for increased power	not possible	not possible	not possible	not possible
Actuation of digital input	✓	-	-	-
Switching frequency with resistive load	max. 1000 Hz	max. 1000 Hz	max. 1000 Hz	max. 1000 Hz
Switching frequency with inductive load	max. 0.5 Hz	max. 0.5 Hz	max. 0.5 Hz	max. 0.5 Hz
Switching frequency on lamp load	max. 10 Hz	max. 10 Hz	max. 10 Hz	max. 10 Hz
Internal limitation of inductive shut-off voltage	+45 V	L+ (-52 V)	L+ (-52 V)	L+ (-52 V)
Short-circuit protection of output	yes, electronic	-	-	-
Trigger level	1.7 A	-	-	-
Number of operating cycle of relay outputs	-	-	-	-
Switching capacity of contacts	-	-	-	-
Output data size	1 Byte	2 Byte	2 Byte	2 Byte

Signal modules digital Digital output modules						
222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00		
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10		
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00		
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00		

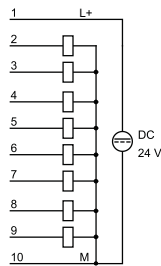
Order number	222-1BF50	222-1BH00	222-1BH10	222-1BH20
Status information, alarms, diagnostics				
Status display	green LED per channel	none	green LED per channel	green LED per channel
Interrupts	no	no	no	no
Process alarm	no	no	no	no
Diagnostic interrupt	no	no	no	no
Diagnostic functions	no	no	no	no
Diagnostics information read-out	none	none	none	none
Supply voltage display	green LED per group	none	green LED per group	green LED per group
Group error display	red SF LED	none	red SF LED	red SF LED
Channel error display	none	none	none	none
Isolation				
Between channels	-	-	-	-
Between channels of groups to	8	16	16	16
Between channels and backplane bus	✓	✓	✓	✓
Insulation tested with	DC 500 V	DC 500 V	DC 500 V	DC 500 V
Mechanical data				
Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm
Weight	90 g	80 g	90 g	100 g
Environmental conditions				
Operating temperature	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C
Certifications				
UL508 certification	yes	yes	yes	yes

Connections, Interfaces

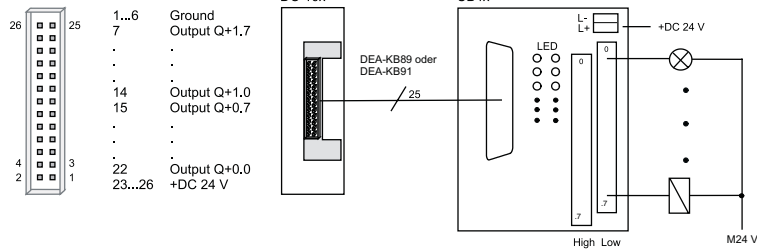
Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00		
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10		
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00		
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00		

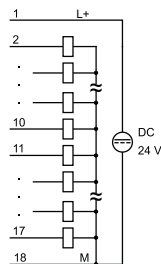
222-1BF50



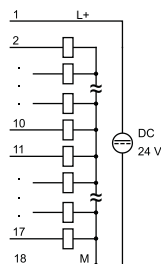
222-1BH00



222-1BH10







222-1BH20



Digital output modules

Signal modules digital | Digital output modules

222-1BF00 222-1BF10 222-1BF20 222-1BF30	222-1BF50 222-1BH00 222-1BH10 222-1BH20	222-1BH30 222-1BH50 222-1BH51 222-1DB00	222-1FD10 222-1FF00 222-1HD10 222-1HD20	222-1HF00 222-2BL10 KSD222-1BH00 KS222-1BH00		
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Order number	222-1BH30	222-1BH50	222-1BH51	222-1DB00
Figure				
Type	SM 222, DO 16xDC 24V 0.5A ECO	SM 222, DO 16xDC 24V NPN	SM 222, DO 16xDC 24V NPN	SM 222, DO 2xAC 230V 2A
General information				
Note	-	-	-	-
Features	<ul style="list-style-type: none"> ▸ 16 outputs, ▸ DC 24 V, ▸ Output current 0.5 A 	<ul style="list-style-type: none"> ▸ 16 Low-Side outputs, ▸ DC 24 V, ▸ Output current 0.5 A 	<ul style="list-style-type: none"> ▸ 16 Low-Side outputs, ▸ DC 24 V, ▸ Output current 0.5A 	<ul style="list-style-type: none"> ▸ 2 outputs, ▸ AC 100...240 V, ▸ Output current 2 A, ▸ Software dimmer for resistive, inductive or capacitive load, ▸ Frequency range 47...63 Hz
Current consumption/power loss				
Current consumption from backplane bus	120 mA	120 mA	90 mA	190 mA
Power loss	-	-	2.5 W	6 W
Technical data digital outputs				
Number of outputs	16	16	16	2
Cable length, shielded	1000 m	1000 m	1000 m	1000 m
Cable length, unshielded	600 m	600 m	600 m	600 m
Rated load voltage	DC 20.4...28.8 V	DC 20.4...28.8 V	DC 20.4...28.8 V	AC 100...240 V
Current consumption from load voltage L+ (without load)	10 mA	10 mA	25 mA	15 mA
Output current at signal "1", rated value	0.5 A	0.5 A	0.5 A	2 A
Output delay of "0" to "1"	max. 100 µs	-	10 ms	max. 1 AC cycle
Output delay of "1" to "0"	max. 350 µs	-	50 ms	max. 1 AC cycle
Minimum load current	-	-	-	-
Lamp load	5 W	-	-	460 W
Parallel switching of outputs for redundant control of a load	not possible	not possible	possible (only outputs group)	not possible
Parallel switching of outputs for increased power	not possible	not possible	not possible	not possible
Actuation of digital input	-	-	✓	-
Switching frequency with resistive load	max. 1000 Hz	-	max. 1000 Hz	-
Switching frequency with inductive load	max. 0.5 Hz	-	max. 0.5 Hz	-
Switching frequency on lamp load	max. 10 Hz	-	max. 10 Hz	-
Internal limitation of inductive shut-off voltage	L+ (-52 V)	+45 V	+45 V	-
Short-circuit protection of output	yes, electronic	-	yes, electronic	yes, electronic
Trigger level	1 A	-	1.7 A	4 A
Number of operating cycle of relay outputs	-	-	-	-
Switching capacity of contacts	-	-	-	-
Output data size	2 Byte	2 Byte	2 Byte	4 Byte

Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00		
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10		
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00		
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00		

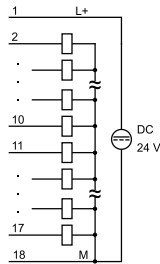
Order number	222-1BH30	222-1BH50	222-1BH51	222-1DB00
Status information, alarms, diagnostics				
Status display	green LED per channel	none	green LED per channel	none
Interrupts	no	no	no	no
Process alarm	no	no	no	no
Diagnostic interrupt	no	no	no	yes, parameterizable
Diagnostic functions	no	no	no	no
Diagnostics information read-out	none	none	none	possible
Supply voltage display	green LED per group	none	green LED per group	green LED per group
Group error display	red SF LED	none	red SF LED	red SF LED
Channel error display	none	none	none	none
Isolation				
Between channels	-	-	-	-
Between channels of groups to	16	16	-	-
Between channels and backplane bus	✓	✓	✓	✓
Insulation tested with	DC 500 V	DC 500 V	DC 500 V	DC 4000 V
Mechanical data				
Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm
Weight	90 g	80 g	90 g	70 g
Environmental conditions				
Operating temperature	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C
Certifications				
UL508 certification	yes	yes	yes	-

Connections, Interfaces

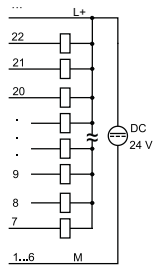
Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00		
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10		
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00		
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00		

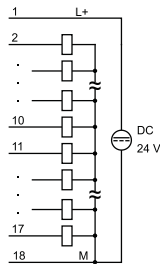
222-1BH30



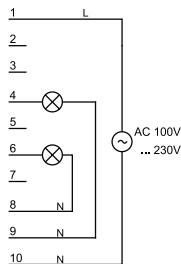
222-1BH50



222-1BH51







222-1DB00



Digital output modules

Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00	
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10	
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00	
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00	

Order number	222-1FD10	222-1FF00	222-1HD10	222-1HD20
Figure				
Type	SM 222, DO 4xSolid State 0.5A	SM 222, DO 8xSolid State 0.5A	SM 222, DO 4xrelay	SM 222, DO 4xrelay bistabil
General information				
Note	-	-	-	-
Features	<ul style="list-style-type: none"> ▶ 8 isolated solid-state outputs, ▶ AC 230 V/ DC 400 V, ▶ Output current 0.5 A 	<ul style="list-style-type: none"> ▶ 8 solide-state outputs, ▶ AC 230 V/ DC 400 V, ▶ Output current 0.5 A 	<ul style="list-style-type: none"> ▶ 4 isolated relay outputs, ▶ AC 230 V/ DC 30 V, ▶ Output current 5 A 	<ul style="list-style-type: none"> ▶ 4 isolated relay outputs, ▶ AC 230 V/ DC 30 V, ▶ Output current 16 A
Current consumption/power loss				
Current consumption from backplane bus	100 mA	150 mA	160 mA	200 mA
Power loss	-	-	-	-
Technical data digital outputs				
Number of outputs	4	8	4	4
Cable length, shielded	1000 m	1000 m	1000 m	1000 m
Cable length, unshielded	600 m	600 m	600 m	600 m
Rated load voltage	AC 230 V	AC 230 V	AC 230 V	AC 230 V
Current consumption from load voltage L+ (without load)	-	-	-	-
Output current at signal "1", rated value	0.5 A	0.5 A	5 A	16 A
Output delay of "0" to "1"	-	-	10 ms	-
Output delay of "1" to "0"	-	-	5 ms	-
Minimum load current	-	-	-	-
Lamp load	-	-	-	-
Parallel switching of outputs for redundant control of a load	not possible	not possible	-	-
Parallel switching of outputs for increased power	not possible	not possible	-	-
Actuation of digital input	-	-	-	-
Switching frequency with resistive load	max. 100 Hz	max. 10 Hz	max. 10 Hz	max. 100 Hz
Switching frequency with inductive load	-	-	-	-
Switching frequency on lamp load	-	-	-	-
Internal limitation of inductive shut-off voltage	-	-	-	-
Short-circuit protection of output	-	-	-	-
Trigger level	-	-	-	-
Number of operating cycle of relay outputs	-	-	-	-
Switching capacity of contacts	-	-	-	-
Output data size	1 Byte	1 Byte	1 Byte	1 Byte
Status information, alarms, diagnostics				
Status display	green LED per channel	green LED per channel	green LED per channel	none
Interrupts	no	no	no	no
Process alarm	no	no	no	no

Signal modules digital Digital output modules						
222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00		
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10		
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00		
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00		

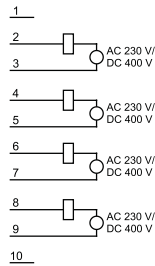
Order number	222-1FD10	222-1FF00	222-1HD10	222-1HD20
Diagnostic interrupt	no	no	no	no
Diagnostic functions	no	no	no	no
Diagnostics information read-out	none	none	none	none
Supply voltage display	none	none	none	none
Group error display	none	none	none	none
Channel error display	none	none	none	none
Isolation				
Between channels	✓	-	✓	✓
Between channels of groups to	-	-	-	-
Between channels and backplane bus	✓	✓	✓	✓
Insulation tested with	DC 500 V	DC 500 V	DC 500 V	DC 500 V
Mechanical data				
Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm
Weight	100 g	100 g	100 g	120 g
Environmental conditions				
Operating temperature	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C
Certifications				
UL508 certification	yes	yes	yes	yes

Connections, Interfaces

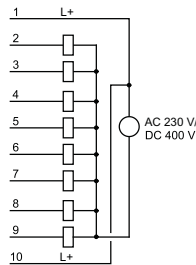
Signal modules digital | Digital output modules

222-1BF00 222-1BF10 222-1BF20 222-1BF30	222-1BF50 222-1BH00 222-1BH10 222-1BH20	222-1BH30 222-1BH50 222-1BH51 222-1DB00	222-1FD10 222-1FF00 222-1HD10 222-1HD20	222-1HF00 222-2BL10 KSD222-1BH00 KS222-1BH00		
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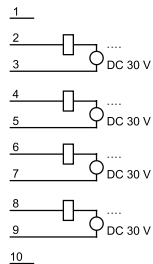
222-1FD10



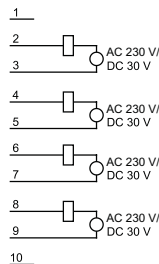
222-1FF00



222-1HD10







222-1HD20



Digital output modules

Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00	
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10	
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00	
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00	

Order number	222-1HF00	222-2BL10	KSD222-1BH00	KS222-1BH00
Figure				
Type	SM 222, DO 8xrelay	SM 222, DO 32xDC 24V 1A	SM 222, DO 16xDC 24V 0.5A Set	SM 222, DO16xDC24V 0.5A Set
General information				
Note	-	-	-	-
Features	<ul style="list-style-type: none"> 8 relay outputs, AC 230 V/ DC 30 V, Output current 5 A 	<ul style="list-style-type: none"> 32 outputs, DC 24 V, Output current 1 A 	<ul style="list-style-type: none"> 16 outputs, DC 24 V, Output current 0.5 A, LED status display on conversion module UB4x 	<ul style="list-style-type: none"> 16 outputs, DC 24 V, Output current 0.5 A, LED status display on conversion module UB4x
Current consumption/power loss				
Current consumption from backplane bus	300 mA	180 mA	120 mA	120 mA
Power loss	-	-	-	-
Technical data digital outputs				
Number of outputs	8	32	16	16
Cable length, shielded	1000 m	1000 m	1000 m	1000 m
Cable length, unshielded	600 m	600 m	600 m	600 m
Rated load voltage	DC 30 V/ AC 230 V	DC 20.4...28.8 V	DC 20.4...28.8 V	DC 20.4...28.8 V
Current consumption from load voltage L+ (without load)	-	15 mA	10 mA	10 mA
Output current at signal "1", rated value	5 A	1 A	0.5 A	0.5 A
Output delay of "0" to "1"	10 ms	-	-	-
Output delay of "1" to "0"	5 ms	-	-	-
Minimum load current	-	-	-	-
Lamp load	-	-	-	-
Parallel switching of outputs for redundant control of a load	-	not possible	not possible	not possible
Parallel switching of outputs for increased power	-	not possible	not possible	not possible
Actuation of digital input	-	-	-	-
Switching frequency with resistive load	max. 10 Hz	max. 1000 Hz	max. 1000 Hz	max. 1000 Hz
Switching frequency with inductive load	-	max. 0.5 Hz	max. 0.5 Hz	max. 0.5 Hz
Switching frequency on lamp load	-	max. 10 Hz	max. 10 Hz	max. 10 Hz
Internal limitation of inductive shut-off voltage	-	L+ (-52 V)	L+ (-52 V)	L+ (-52 V)
Short-circuit protection of output	-	-	-	-
Trigger level	-	-	-	-
Number of operating cycle of relay outputs	-	-	-	-
Switching capacity of contacts	-	-	-	-
Output data size	1 Byte	4 Byte	2 Byte	2 Byte

Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00		
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10		
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00		
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00		

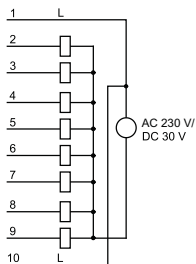
Order number	222-1HF00	222-2BL10	KSD222-1BH00	KS222-1BH00
Status information, alarms, diagnostics				
Status display	green LED per channel	green LED per channel	none	none
Interrupts	no	no	no	no
Process alarm	no	no	no	no
Diagnostic interrupt	no	no	no	no
Diagnostic functions	no	no	no	no
Diagnostics information read-out	none	none	none	none
Supply voltage display	none	green LED per group	none	none
Group error display	none	red SF LED	none	none
Channel error display	none	none	none	none
Isolation				
Between channels	-	-	-	-
Between channels of groups to	-	16	16	16
Between channels and backplane bus	✓	✓	✓	✓
Insulation tested with	DC 500 V	DC 500 V	DC 500 V	DC 500 V
Mechanical data				
Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm	50.8 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm	25.4 mm x 76 mm x 88 mm
Weight	110 g	150 g	80 g	80 g
Environmental conditions				
Operating temperature	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C	-25 °C to 70 °C
Certifications				
UL508 certification	yes	yes	yes	yes

Connections, Interfaces

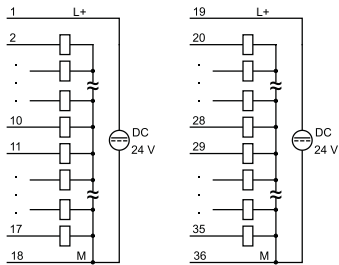
Signal modules digital | Digital output modules

222-1BF00	222-1BF50	222-1BH30	222-1FD10	222-1HF00		
222-1BF10	222-1BH00	222-1BH50	222-1FF00	222-2BL10		
222-1BF20	222-1BH10	222-1BH51	222-1HD10	KSD222-1BH00		
222-1BF30	222-1BH20	222-1DB00	222-1HD20	KS222-1BH00		

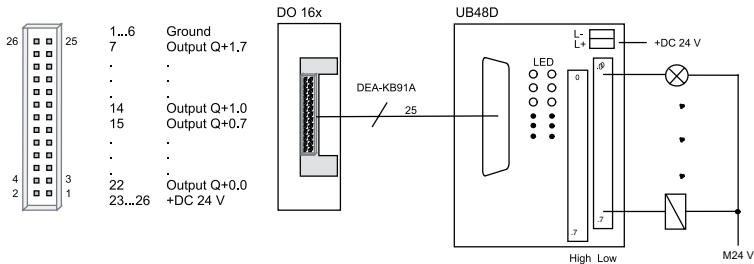
222-1HF00



222-2BL10



KSD222-1BH00



KS222-1BH00

