



Industry

Industrial Relays



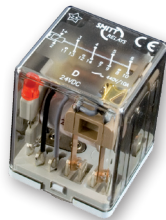
Industrial relays

Power relays



Auxiliary relays

Low current



D



D8



D-Z



D-E

Number of contacts		4 C/O contacts	8 C/O contacts	4 C/O contacts	4 C/O contacts
		LED-indication Magnetic arc blow-out Plug-in relay	LED-indication Magnetic arc blow-out Plug-in relay	Plug-in relay	Gold plated contacts LED-indication Magnetic latching Plug-in relay
Max. switching voltage	AC	440 VAC	440 VAC	440 VAC	440 VAC
	DC	350 VDC	350 VDC	350 VDC	350 VDC
Switching current (capacity)	AC1	10 A / 230 VAC	10 A / 230 VAC	10 A / 230 VAC	10 A / 230 VAC
	DC1	1 A / 110 VDC	1 A / 110 VDC	1 A / 110 VDC	1 A / 110 VDC
Minimal switching voltage		12 V	12 V	12 V	5 V
Minimal switching current		10 mA	10 mA	10 mA	1 mA

Coil voltage					
Nominal voltage	AC	12...380 VAC	12...250 VAC	12...380 VAC	12...380 VAC
	DC	12...250 VDC	12...250 VDC	12...250 VDC	12...250 VDC
Voltage range		0.8...1.1 Un	0.8...1.1 Un	0.8...1.1 Un	0.8...1.1 Un

General							
Dimensions (l x w x h)	mm	40 x 40 x 53	40 x 88 x 56	40 x 40 x 53	40 x 40 x 53		
Ordering examples	AC	D	24 VAC	D8	24 VAC	D-Z	110...115 V, 50 Hz
		D	230 VAC	D8	48 VAC	D-Z	220...230 V, 50 Hz
	DC	D	24 VDC	D8	100 VDC	D-Z	24 VDC
		D	230 VDC	D8	220 VDC	D-Z	110 VDC
						D-E	48 VAC
						D-E	320 VAC
						D-E	24 VDC
						D-E	110 VDC

Sockets



V23
D-relays socket



V29
D-relays socket



V33
D-relays socket



V93
D8 & KDN-relays socket



V23BR
D-relays socket



V99
for D8 & KDN relays



Industrial relays

Power relays



High current	Trip relays	Safety relays	Bistable relays	Bistable relays
				
D-B	D-R4	D-BW	KDN	BD
4 C/O contacts	4 C/O contacts	4 contacts	8 C/O contacts	4 contacts
Arcing chambers LED-indication Magnetic arc blow out Plug-in relay	High speed switching < 7 ms Plug-in relay	Positive guided contacts LED-indication Magnetic latching Plug-in relay	Bistable Mechanical latching Position indicator Plug-in relay	Bistable Magnetic latching Plug-in relay
440 VAC 350 VDC	220 VDC	440 VAC 350 VDC	440 VAC 350 VDC	440 VAC 250 VDC
10 A / 230 VAC 7 A / 110 VDC	10 A / 230 VAC 1 A / 110 VDC	10 A / 230 VAC 7 A / 110 VDC	10 A / 230 VAC 1 A / 110 VDC	10 A / 230 VAC 1 A / 110 VDC
12 V	12 V	12 V	12 V	12 V
10 mA	10 mA	10 mA	10 mA	10 mA
12...380 VAC 12...250 VDC	12...250 VDC	12...250 VDC	12...380 VAC 12...250 VDC	12...380 VAC 12...250 VDC
0.8...1.1 Un	0.8...1.1 Un	0.8...1.1 Un	0.8...1.1 Un	0.85...1.1 Un
40 x 40 x 53	40 x 40 x 53	40 x 40 x 53	40 x 88 x 40	40 x 40 x 53
D-B 24 VAC, 50 Hz D-B 230 VAC, 50 Hz D-B 24 VDC D-B 110 VDC	D-R4 24 VDC D-R4 48 VDC D-R4 110 VDC D-R4 220 VDC	D-BW022 24 VDC D-BW031 24 VDC D-BW013 110 VDC	KDN 24 VAC, 50 Hz KDN 220 VAC, 50 Hz KDN 24 VDC KDN 110 VDC	BD 24 VAC BD 220-230 VAC BD 24 VDC BD 110 VDC

Sockets & accessoires

		
Increased touch safety for V23	19 inch module D-relays socket	19 inch module for D8 & KDN relays

Industrial relays

Control, trip & supervision relays



Relays



		ARD4	TRD4	XRD
Number of contacts		4 contacts	4 contacts	3 or 4 contacts
		Auxiliary relay	High speed switching < 10 ms , trip relay	Supply or circuit supervision relay
		Status indication LED-indication Magnetic arc blow-out		
		Mono / bistable contacts Rack / surface mount Plug-in relay		
Max. switching voltage	AC	440 VAC	440 VAC	440 VAC
	DC	350 VDC	250 VDC	250 VDC
Switching voltage (capacity)	AC1	10 A / 230 VAC	10 A / 230 VAC	10 A / 230 VAC
	DC1	7 A / 110 VDC	7 A / 110 VDC	1 A / 110 VDC
Minimal switching voltage		12 V	12 V	12 V
Minimal switching current		10 mA	10 mA	10 mA

Coil current				
Nominal voltage	DC	24...250 VDC	24...250 VDC	24...250 VDC
Voltage range	DC	0.8...1.2 Un	0.7...1.2 Un	0.7...1.2 Un

General				
Dimensions (l x w x h)	rack	80 x 51 x 94 mm	88 x 51 x 94 mm	88 x 51 x 94 mm
	construction	65 x 45 x 94 mm	65 x 45 x 94 mm	65 x 45 x 94 mm
Approval		CE	CE	CE

Sockets



V23 socket **V29 socket** **TBD-R rack & socket**







Industrial relays

Control, trip & supervision relays



Relays



			
AR	TR	XR	PR
5, 10 or 12 contacts	5 or 12 contacts	5 contacts	5 contacts
Auxiliary relay	High speed switching Tripping relay < 8 ms	Supervision relay	Intertrip relay
HD contacts Automatic & manual reset	HD contacts Automatic & manual reset	Circuit supervision Trip supervision Relays supervision	5 kV isolation
Flag indication 4U high 19 inch rack modular configuration			
660 VAC 660 VDC	660 VAC 660 VDC	660 VAC 660 VDC	660 VAC 660 VDC
See datasheet	See datasheet	See datasheet	See datasheet
-	-	-	-
-	-	-	-

32...250 VDC	32...250 VDC	32...250 VDC	32...250 VDC
0.7...1.2 Un	0.7...1.2 Un	0.5...1.2 Un	0.7...1.2 Un

51 x 217 x 157 mm	51 x 217 x 157 mm	51 x 217 x 157 mm	51 x 217 x 157 mm
-	-	-	-
CE	CE	CE	CE

Options			
<ul style="list-style-type: none"> • Contact configuration • Contact function • Hand reset flag • Switch counter • Gold plated contacts • LED-indication • Electrical reset 	<ul style="list-style-type: none"> • Contact configuration • Contact function • Hand reset flag • Switch counter • Gold plated contacts • LED-indication • Electrical reset 	<ul style="list-style-type: none"> • Contact configuration • Supervision function • Hand reset flag • LED-indication 	<ul style="list-style-type: none"> • Contact configuration • Hand reset flag • Gold plated contacts • LED-indication

Testblock systems

	
4M400	4M420
14 test groups	14 test groups
Test block system	Test plug
14 test circuits	14 test groups
Automatic CT shorting Stage 3 isolation	4 mm shrouded test plugs
600 VAC 320 VDC	600 VAC 320 VDC
See datasheet	See datasheet
-	-
-	-

-	-
-	-

51 x 217 x 157 mm	51 x 217 x 157 mm
-	-
CE	CE



Industry

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