

PCB mount relays



type		30 series	32 series	34 series		36 series
description		sub-miniature dual-in-line PCB mount	miniature low profile sensitive	ultra-slim PCB, low absorption	ultra-slim PCB, solid state	sugar-cube PCB low consumption
contact specification		30.22	32.21	34.51	34.81	36.11
contact configuration		2 CO (DPDT)	1 CO (SPDT)	1 CO (SPDT)	1 NO (SPST)	1 CO (SPDT)
rated current	A	2	6	6	2	10
maximum peak current	A	3	15	10	20	15
rated voltage	V	125	250	250	24	250
maximum peak voltage	V	250	400	400	33	250
rated load AC1	VA	125	1500	1500	1mA	2500
rated load AC15 (230V AC)	VA	25	250	300	-	500
single phase motor (230V AC)	kW	-	0.185	0.185	-	0.37
breaking capacity DC1 30/110/220V	A	2/0.3/-	3/0.35/0.2	6/0.2/0.12	2/-/-	10/0.3/0.12
minimum switching load	mW (V / mA)	10(0.1/1)	500(10/5)	500(12/10)	-	500(5/100)
standard contact material		AgNi + Au	AgCdO	AgNi	-	AgCdO
coil specification						
nominal voltage (U _N)	V AC	-	-	-	-	-
	V DC	5-6-9-12-24-48	12-24-48	5-12-24-48	24	5-6-9-12-24-48
rated power AC/DC	VA (50Hz) / W	- 0.2	- 0.2	- 0.17	-	- 0.36
operating range (U _N)	AC	-	-	-	-	-
	DC	0.78...1.5	0.78...1.5	0.7...1.5	16-30	0.75...1.5
holding voltage (U _N)	AC / DC	- 0.35	- 0.4	- 0.4	-	- 0.4
must drop-out voltage (U _N)	AC / DC	- 0.05	- 0.1	- 0.05	10	- 0.1
technical data						
mechanical life AC/DC	cycles	- 10.10 ⁶	- 20.10 ⁶	- 10.10 ⁶	-	- 10.10 ⁶
electrical life AC/DC	cycles	- 10.10 ³	- 100.10 ³	- 60.10 ³	-	- 100.10 ³
operate / release time	ms	6 2	6 4	5 3	0.1 0.3	7 3
insulation according to EN 61810-1 ed.2		1.2kV/2	4kV/2	4kV/3	-	2.5kV/2
insulation between coil and contacts (1.2/50 μs) kV		1.5	5	6	2.5	4
dielectric strength between open contacts	V AC	750	1000	1000	-	1000
ambient temperature range	°C	-40...+85	-40...+85	-40...+85	-20...+60	-40...+85
termination		PCB	PCB	PCB	PCB	PCB
dimensions (H) x (W) x (D)		11.4 x 20.3 x 10.1	10.7 x 20.3 x 10.2	15 x 28 x 5	15.5 x 28 x 5	17.5 x 21.5 x 15.5
variations		-	-	-	-	-



Plug-in relays

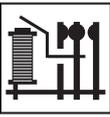


40 series						44 series		41 series		43 series		46 series			
industrial PCB relay 5mm pinning						low profile PCB relay 5mm pinning		low profile PCB relay 3.5mm 5.0mm		low profile slimline 3.2mm pinning		industrial relay plug-in			
40.51		40.61		40.52		44.52	44.62	41.31	41.52	43.41		46.52		46.61	
1 CO (SPDT)		1 CO (SPDT)		2 CO (DPDT)		2 CO (DPDT)		1 CO	2 CO	1 CO (SPDT)		2 CO (DPDT)		1 CO (SPDT)	
10		16		8		6	10	12	8	10		8		16	
20		30		15		10	20	25	15	15		15		25	
250		250		250		250		250		250		250		250	
400		400		250		400		400		400		400		400	
2500		4000		2000		1500	1800	3000	2000	2500		2000		4000	
500		750		400		250	500	600	400	500		350		750	
0.37		0.55		0.3		0.185	0.37	0.5	0.3	-		0.37		0.55	
10/0.3/0.12		16/0.3/0.12		8/0.3/0.12		6/0.3/0.13		12/3/12	8/-/-	10/0.3/0.12		6/0.5/0.15		12/0.5/0.15	
300(5/5)		500(10/5)		300(5/5)		300(5/5)		300(5/5)		300(5/5)		300(5/5)		300(5/5)	
AgNi		AgCdO		AgNi		AgNi		AgNi		AgCdO		AgNi		AgNi	
6 - 12 - 24 - 48 - 60 - 110 - 230						-		-		-		12 - 24 - 48 - 120 - 230			
5 - 6 - 7 - 9 - 12 - 14 - 18 - 24 - 28 - 36 - 48 - 60 - 110						6 ... 110		12 ... 110		6 ... 48		12 - 24 - 48 - 110			
1.2	0.65	1.2	0.65	1.2	0.65	-	0.65	-	0.4	-	0.25	1.2	0.5	1.2	0.5
0.8...1.1		0.8...1.1		0.8...1.1		-		-		-		0.8...1.1		0.8...1.1	
0.73...1.5		0.73...1.5		0.73...1.5		0.73...1.5		0.7...1.5		0.7...1.5		0.73...1.1		0.73...1.1	
0.8	0.4	0.8	0.4	0.8	0.4	-	0.4	-	0.4	-	0.4	0.8	0.4	0.8	0.4
0.2	0.1	0.2	0.1	0.2	0.1	-	0.1	-	0.1	-	0.05	0.2	0.1	0.2	0.1
10.10 ⁶	20.10 ⁶	10.10 ⁶	20.10 ⁶	10.10 ⁶	20.10 ⁶	-	20.10 ⁶	-	30.10 ⁶	-	10.10 ⁶	10.10 ⁶		10.10 ⁶	
200.10 ³		100.10 ³		100.10 ³		100.10 ³		150.10 ³	80.10 ³	100.10 ³		100.10 ³		100.10 ³	
7	3	7	3	7	3	8	5	5	4	6	4	10	3	15	5
4kV/3		4kV/3		4kV/2		4kV/2		4kV/3		4kV/3		4kV/3		4kV/3	
6 (8mm)		6 (8mm)		6 (8mm)		6 (8mm)		6 (8mm)		6 (10mm)		6 (8mm)		6 (8mm)	
1000		1000		1000		1000		1000		1000		1000		1000	
-40...+85		-40...+85		-40...+85		-40...+85		-40...+85		-40...+85		-40...+70		-40...+70	
PCB		PCB		PCB		PCB		PCB		PCB		plug-in		plug-in	
25 x 29 x 12.4		25 x 29 x 12.4		25 x 29 x 12.4		25 x 29 x 12.4		15.7 x 29 x 12.7		15.4 x 30.2 x 10.2		32.8 x 29 x 12.4		32.8 x 29 x 12.4	
-		-		-		-		-		-		PCB / base mount		PCB / base mount	

Plug-in relays



type	55 series		56 series		60 series		
description	miniature industrial relays		miniature industrial relays		general purpose relays		
contact specification	55.32	55.34	56.32	56.34	60.12	60.13	
contact configuration	2 CO	4 CO	2 CO	4 CO	2 CO	3 CO	
rated current	A	10	7	12	10	10	
maximum peak current	A	20	15	20	20	20	
rated voltage	V	250	250	250	250	250	
maximum peak voltage	V	400	250	400	400	400	
rated load AC1	VA	2500	1750	3000	2500	2500	
rated load AC15 (230V AC)	VA	500	350	700	500	500	
single phase motor (230V AC)	kW	0.37	0.125	0.55	0.37	0.37	
breaking capacity DC1 30, 110, 230V	A	10/25/12	7	12/0.25/0.12	10/0.4/0.15	10/0.4/0.15	
minimum switching load	mW (V / mA)	300(5/5)		500(10/5)		500(5/10)	
standard contact material		AgNi		AgNi		AgNi	
coil specification							
nominal voltage (U _N)	V AC	6 - 12 - 24 - 48 - 60 - 110 - 230		6 - 12 - 24 - 48 - 60 - 110 - 230 - 400		6 - 12 - 24 - 36 - 48 - 60 - 110 - 240 - 400	
	V DC	6 - 12 - 24 - 48 - 60 - 110		6 - 12 - 24 - 48 - 60 - 110 - 220		6 - 12 - 24 - 36 - 48 - 60 - 110 - 220	
rated power AC/DC	VA (50Hz) / W	1.5/1		1.5/1	2/1.3	2.2/1.3	
operating range (U _N)	AC	0.8 ... 1.1		0.8 ... 1.1		0.8 ... 1.1	
	DC	0.8 ... 1.1		0.8 ... 1.1		0.8 ... 1.1	
holding voltage (U _N)	AC / DC	0.8	0.5	0.8	0.6	0.80	0.5
must drop-out voltage (U _N)	AC / DC	0.2	0.1	0.2	0.1	0.2	0.1
technical data							
mechanical life AC/DC	cycles	20.10 ⁶	50.10 ⁶	20.10 ⁶	50.10 ⁶	20.10 ⁶	50.10 ⁶
electrical life AC/DC	cycles	200.10 ³		200.10 ³		200.10 ³	
operate / release time	ms	9	3	8	8	9	9
insulation according to EN 61810-1 ed.2		3.6kV/2		4kV/3		4kV/3	3.6kV/3
insulation between coil and contacts (1.2/50 μs)	kV	4kV		4		3.6	
dielectric strength between open contacts	V AC	1000		1000		1000	
ambient temperature range	°C	-40...+85		-40...+70		-40...+70	
termination		plug-in		plug-in		plug-in	
dimensions (H) x (W) x (D)		37.2 X 20.7 X 27.7		37.2 X 20.7 X 27.7	41 (4 CO)	54.2 X 32.5 X 36.4	
variations		PCB / base mount		PCB / base mount		fast-on	



Plug-in and step relays



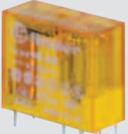
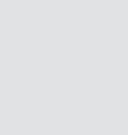
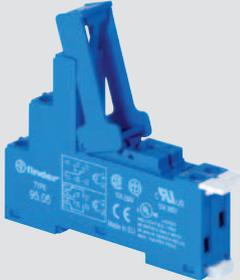
62 series		65 series		66 series		19 series		20 series			26 series	
general purpose power relays		high power relays		high power relays		modular DIN rail mount relays		modular step relays			base mount relays	
62.32	62.33	65.31	65.3103	66.82		19.21		20.23	20.26	20.28	26.03	
2 CO	3 CO	1 O + 1 C	1 NO	2 CO (DPDT)		1 CO (SPCO)		1NO+1NC	2NO	2NO	1 NO + 1 NC (step)	
16		20	30	30 NO	10 NC	10		16			10	
30		40	50	50 NO	20 NC	15		30			20	
250		250		250		250		250			250	
400		400		400		400		400			400	
4000		5000	7500	7500(NO)	2500(NC)	2500		4000			2500	
750		1000	1250	1200(NO)		500		750			500	
0.8	1.5(3PH)	1.1	1.5	1.5(NO)		0.44		-			-	
16 / 0.6 / 0.4		20 / 0.8 / 0.5	30 / 1.1 / 0.7		25 / 0.7 / 0.3		10 / 0.3 / 0.12		-			-
1000 (10 / 10)		1000 (10 / 10)		1000 (10 / 10)		300(5/5)		1000(10/10)			1000(10/10)	
AgCdO		AgCdO		AgCdO		AgSnO ₂		AgNi			AgNi	
6-12-24-48-60-110-230-400		12-24-48-60-110-230-400		12-24-110-230		24		12-24-48-110-230			12-24-48-110-230	
6-12-24-48-60-110-220		12-24-48-60-110-220		12-24-110		24		12-24-48			-	
2.2	1.3	2.2	1.3	3.6	1.7	0.6/0.4		6.5/5			4.5	
0.8 - 1.1		0.8 - 1.1		0.8 - 1.1		0.8 ... 1.1		0.85 ... 1.1			0.8 ... 1.1	
0.8 - 1.1		0.8 - 1.1		0.8 - 1.1		0.8 ... 1.1		0.90 ... 1.1			-	
0.8	0.6	0.8	0.6	0.8	0.5	0.80		pulse duration 0.1s-1h			pulse duration 0.1s-1h	
0.2	0.1	0.2	0.1	0.2	0.1	0.20		-			-	
10.10 ⁶		30.10 ⁶		10.10 ⁶		10.10 ⁶		300.10 ³			300.10 ³	
100.10 ³		80.10 ³		100.10 ³		100.10 ³		100.10 ³			100.10 ³	
10	10	10	12	8	15	-		-			-	
4kV/3		4kV/3		4kV/3		4KV		-			-	
6		4		6 (8mm)		4		4			4	
1500		1500	2500	1500		1000		-			-	
-40...+70		-40...+75		-40...+70		-10...+50		-40...+40			-40...+40	
Plug-in	Fast-on 4.8	Fast-on 6.3		Fast-on 6.3		Screw		Screw			Screw	
47.6 X 38.2 X 35.8		52.2 X 32.2 X 36.5		31 X 51.5 X 33.5		84 X 11.2 X 57		84 X 17.4 X 59			22 X 45 X 46.6	
PCB		PCB		PCB		auto - off - on		auto - off - on			auto - off - on	

PCB mount relays

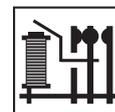
	type	description		current	coil	price
	30 Series	<i>sub-miniature DIL relay</i>		<i>(11.4 x 20.3 x 10.1mm)</i>		
		<ul style="list-style-type: none"> • 2-pole changeover contacts (low level switching capability) 1.25A • sub-miniature – industry standard DIL package • sensitive DC coil – 200mW • wash tight: RT-III 				
30.22	30.22.7.012	sealed DIL PCB relay	2A	2 changeover	12VDC	24.50
	30.22.7.024	sealed DIL PCB relay	2A	2 changeover	24VDC	24.50
	30.22.7.048	sealed DIL PCB relay	2A	2 changeover	48VDC	30.00
	32 Series	<i>sub-miniature low profile relay</i>		<i>(10.7 x 20 x 10.7mm)</i>		
		<ul style="list-style-type: none"> • 1-pole changeover contact 6A • sub-miniature – low profile package • sensitive DC Coil – 200mW • wash tight: RT-III 				
32.31	32.21.7.012	low profile PCB relay	6A	1 changeover	12VDC	20.20
	32.21.7.024	low profile PCB relay	6A	1 changeover	24VDC	20.20
	32.21.7.048	low profile PCB relay	6A	1 changeover	48VDC	23.00
	34 Series	<i>ultra-slim relay (5mm)</i>		<i>(15 x 28 x 5mm)</i>		
		<ul style="list-style-type: none"> • 1-pole changeover contact 6A • ultra-slim (5mm) package • sensitive DC coil – 170mW • 8/8mm clearance/creepage distance – 6kV (1.2/50us) insulation, coil-contacts 				
34.51	34.51.7.05	sealed ultra-slim PCB relay	6A	1 changeover	5VDC	43.00
	34.51.7.06	sealed ultra-slim PCB relay	6A	1 changeover	6VDC	43.00
	34.51.7.012	sealed ultra-slim PCB relay	6A	1 changeover	12VDC	31.00
	34.51.7.024	sealed ultra-slim PCB relay	6A	1 changeover	24VDC	31.00
	34.51.7.048	sealed ultra-slim PCB relay	6A	1 changeover	48VDC	43.00
	34.51.7.060	sealed ultra-slim PCB relay	6A	1 changeover	60VDC	49.50
	93.11	PCB-mount socket with hinged retain/release clip for 34-series				14.00
93.11	36 Series	<i>miniature PCB relay</i>		<i>(17.5 x 18 x 15.5mm)</i>		
		<ul style="list-style-type: none"> • 1-pole changeover contact 10A • miniature – “sugar cube” package • DC coil – 400mW • wash tight: RT-III 				
	36.11.9.012.4	“sugar cube” PCB relay	10A	1 changeover	12VDC	10.80
36.11	36.11.9.024.4	“sugar cube” PCB relay	10A	1 changeover	24VDC	10.80
	41 Series	<i>low-profile PCB relays</i>		<i>(15.7 x 29 x 12.5mm)</i>		
		<ul style="list-style-type: none"> • 1 or 2 pole • DC coil • 8mm 6kV (1.2/50us) isolation coil-contacts • flux proof – RT-II 				
41.31	41.31.9.012	low-profile PCB relay	12A	1 changeover	12VDC	24.00
	41.31.9.024	low-profile PCB relay	12A	1 changeover	24VDC	24.00
	41.52.9.012	low-profile PCB relay	8A	2 changeover	12VDC	28.00
	41.52.9.024	low-profile PCB relay	8A	2 changeover	24VDC	28.00
	43 Series	<i>low-profile slimline PCB relays</i>		<i>(10.2mm) (15.4 x 30.2 x 10.2mm)</i>		
		<ul style="list-style-type: none"> • sensitive coil – 250mW • very high coil-contact insulation 10mm, 6kV (1.2/50us) • flux proof – RT-II 				
43.51	43.41.7.012.2	low-profile slimline PCB relay	10A	1 changeover	12VDC	19.50
	43.41.7.024.2	low-profile slimline PCB relay	10A	1 changeover	24VDC	19.50
	95.23SNA	PCB-mount socket for 43 series with retaining clip				9.00
95.23						



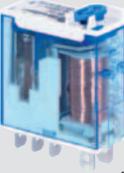
PCB mount / solid-state relays

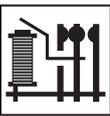
	type	description		current	coil voltage	price		
	40 series	<i>miniature PCB relays</i>		<i>(25 x 29 x 12.4mm)</i>				
		<ul style="list-style-type: none"> • DC and AC coils • 8mm, 6kV • flux-proof RT-II • 95 series sockets (for plug-in) 						
	40.51	40.51.8.012	miniature PCB relay	10A	1 c/over 12VAC	27.00		
		40.51.8.024	miniature PCB relay	10A	1 c/over 24VAC	27.00		
		40.51.8...	miniature PCB relay	10A	1 c/over other voltages 6-60VAC	31.00		
		40.51.8.110	miniature PCB relay	10A	1 c/over 110VAC	35.00		
		40.51.8.240	miniature PCB relay	10A	1 c/over 240VAC	44.50		
	40.61	40.51.9.012	miniature PCB relay	10A	1 c/over 12VDC	21.00		
		40.51.9.024	miniature PCB relay	10A	1 c/over 24VDC	21.00		
		40.51.9...	miniature PCB relay	10A	1 c/over other voltages 6-60VDC	28.00		
		40.51.9.110	miniature PCB relay	10A	1 c/over 110VDC	32.00		
	40.62	40.61.8.012	miniature PCB relay	16A	1 c/over 12VAC	29.00		
		40.61.8.024	miniature PCB relay	16A	1 c/over 24VAC	29.00		
		40.61.8...	miniature PCB relay	16A	1 c/over other voltages 6-60VAC	32.00		
		40.61.8.110	miniature PCB relay	16A	1 c/over 110VAC	36.00		
		40.61.8.240	miniature PCB relay	16A	1 c/over 240VAC	46.00		
	40.63	40.61.9.012	miniature PCB relay	16A	1 c/over 12VDC	22.00		
		40.61.9.024	miniature PCB relay	16A	1 c/over 24VDC	22.00		
		40.61.9...	miniature PCB relay	16A	1 c/over other voltages 6-60VDC	29.00		
		40.61.9.110	miniature PCB relay	16A	1 c/over 110VDC	33.00		
	44.52	40.52.8.012	miniature PCB relay	8A	2 c/over 12VAC	32.00		
		40.52.8.024	miniature PCB relay	8A	2 c/over 24VAC	32.00		
		40.52.8...	miniature PCB relay	8A	2 c/over other voltages 6-60VAC	36.00		
		40.52.8.110	miniature PCB relay	8A	2 c/over 110VAC	40.00		
		40.52.8.240	miniature PCB relay	8A	2 c/over 240VAC	49.50		
	95.15	40.52.9.012	miniature PCB relay	8A	2 c/over 12VDC	26.00		
		40.52.9.024	miniature PCB relay	8A	2 c/over 24VDC	26.00		
		40.52.9...	miniature PCB relay	8A	2 c/over other voltages 6-60VDC	34.00		
		40.52.9.110	miniature PCB relay	8A	2 c/over 110VDC	37.00		
		44 series	flux-proof miniature PCB relays	<i>(25 x 29 x 12.4mm)</i>				
		44.62.9012	miniature PCB relay	10A	2 c/over 12VDC	36.00		
		44.62.9024	miniature PCB relay	10A	2 c/over 24VDC	36.00		
	95.05	Sockets and accessories (40 and 44 series relays)						
		95.15.2SMA	PCB mount socket for relay		40/44 series	10.30		
		95.05.SPA*	surface/DIN mount socket (screw terminal)		40/44 series	34.00		
		095.18	8 way jumper link	for sockets	95.05/95.55	21.00		
		060.72	sheet of marker tags (72 tags)	for sockets	95.05/95.55	92.00		
		* accepts plug-in LED, diode, timing modules (<i>plug directly into sockets</i>) (See pg 12)						
		Solid state PCB relays						
		type	description		current	operating range	switching voltage	price
		34.81 Series	Ultra-slim solid state relays - ultra slim <i>(15.5 x 28 x 5mm)</i>					
			<ul style="list-style-type: none"> • single circuit output switching options • silent high speed switching with long electrical life • ultra-slim package (5mm) • sensitive DC input circuits - wash tight RT-III 					
	34.81	34.81.7.005.9024	solid state relay	2A	3.5-12VDC	1.5-24VDC	125.00	
		34.81.7.024.9024	solid state relay	2A	16-30VDC	1.5-24VDC	125.00	
		34.81.7.024.8240	solid state relay	2A	16-30VDC	12-240VAC	132.00	
		41.81 Series	solid state relays		<i>(15.7 x 29 x 12.7mm)</i>			
			<ul style="list-style-type: none"> • single circuit output switching options • silent, high speed switching with long electrical life • low profile (15.7mm) • wash tight RT-III 					
	41.81	41.81.7.024.9024	solid state relay	5A	10-32VDC	1.5-35VDC	133.00	
		41.81.7.024.8240	solid state relay	3A	10-32VDC	12-275VAC	128.00	

new



Miniature industrial relays

	type	description	current	coil voltage	price
	46 Series	miniature industrial relays	(32.8 x 29 x 12.4mm)		
		<ul style="list-style-type: none"> • plug-in or direct connection via robust faston terminals • AC and DC coil voltages • lockable test/override button, mechanical flag indication • 8mm, 6kV (1.2/50us) Isolation, coil-contacts 			
	46.61.8012	miniature industrial relay	16A	1 changeover 12VAC	42.00
	46.61.8024	miniature industrial relay	16A	1 changeover 24VAC	42.00
	46.61.8048	miniature industrial relay	16A	1 changeover 48VAC	46.00
	46.61.8110	miniature industrial relay	16A	1 changeover 110VAC	49.00
	46.61.8230	miniature industrial relay	16A	1 changeover 230VAC	59.00
	46.61.9012	miniature industrial relay	16A	1 changeover 12VDC	34.00
	46.61.9024	miniature industrial relay	16A	1 changeover 24VDC	34.00
	46.61.9048	miniature industrial relay	16A	1 changeover 48VDC	41.00
	46.61.9110	miniature industrial relay	16A	1 changeover 110VDC	45.00
	46.52.8012	miniature industrial relay	8A	2 changeover 12VAC	48.00
	46.52.8024	miniature industrial relay	8A	2 changeover 24VAC	48.00
	46.52.8048	miniature industrial relay	8A	2 changeover 48VAC	51.00
	46.52.8110	miniature industrial relay	8A	2 changeover 110VAC	54.00
	46.52.8230	miniature industrial relay	8A	2 changeover 230VAC	66.00
	46.52.9012	miniature industrial relay	8A	2 changeover 12VDC	39.00
	46.52.9024	miniature industrial relay	8A	2 changeover 24VDC	39.00
	46.52.9048	miniature industrial relay	8A	2 changeover 48VDC	47.00
	46.52.9110	miniature industrial relay	8A	2 changeover 110VDC	52.00
	Extra charges				
	00.54	internal LED indication AC			10.00
	00.74	internal LED indication DC		(double LED non-polarised)	10.00
	Sockets and accessories				
	046.07	DIN rail mountable bracket		for 46 series relays	15.00
	97.01.SPA*	surface/DIN rail mount screw terminal socket		for relay 46.61	36.00
	97.02.SPA*	surface/DIN rail mount screw terminal socket		for relay 46.52	40.00
	97.11	PCB mount socket		for relay 46.61	20.00
	095.18	8 way jumper link		for sockets 97.01/02	21.00
	060.72	sheet of marking tags (72 tags)		for sockets 97.01/02	91.00
	* accepts plug-in LED, diode, timing modules (plug directly into sockets) (see pg 12)				
	55 Series	miniature PCB relays	(36 x 21 x 28mm)		
		<ul style="list-style-type: none"> • AC and DC coil voltages • 2, 3 and 4-pole versions • cadmium free contacts 			
	PCB mount version				
	55.12.□012	general purpose PCB relay	10A	2 changeover 12V □	50.20
	55.12.□024	general purpose PCB relay	10A	2 changeover 24V □	50.20
	55.12.□.....	general purpose PCB relay	10A	2 changeover 36-110V □	59.50
	55.12. 8 230	general purpose PCB relay	10A	2 changeover 230VAC	55.50
	55.12. 9 220	general purpose PCB relay	10A	2 changeover 220VDC	101.00
	55.14.□012	general purpose PCB relay	7A	4 changeover 12V □	53.50
	55.14.□024	general purpose PCB relay	7A	4 changeover 24V □	53.50
	55.14.□.....	general purpose PCB relay	7A	4 changeover 36-110V □	62.50
	55.14. 8 230	general purpose PCB relay	7A	4 changeover 230VAC	59.50
	55.14. 9 220	general purpose PCB relay	7A	4 changeover 220VDC	104.00
	□ 8=AC / 9=DC				



Miniature industrial relays

	type	description	current	coil voltage	price
	55 Series	miniature plug-in relays	(37.2 x 21 x 28mm)		
		• lockable test button with mechanical flag indication			
	55.32.□012	general purpose plug-in relay	10A	2 changeover 12V □	49.60
	55.32.□024	general purpose plug-in relay	10A	2 changeover 24V □	49.60
	55.32.□.....	general purpose plug-in relay	10A	2 changeover 36-110V □	58.50
	55.32. 8 230	general purpose plug-in relay	10A	2 changeover 230VAC	55.00
	55.32. 9 220	general purpose plug-in relay	10A	2 changeover 220VDC	100.00
	55.34.□012	general purpose plug-in relay	7A	4 changeover 12V □	52.50
	55.34.□024	general purpose plug-in relay	7A	4 changeover 24V □	52.50
	55.34.□.....	general purpose plug-in relay	7A	4 changeover 36-110V □	62.00
	55.34. 8 230	general purpose plug-in relay	7A	4 changeover 230VAC	58.00
	55.34. 9 220	general purpose plug-in relay	7A	4 changeover 220VDC	103.00
	<i>Other voltages available on request.</i>				
	□ 8=AC / 9=DC				
	Extra charges				
	000.1	sealed wash tight RTIII (only for 5512/5514 PCB relays)			35.00
	00.54	internal LED indication AC			5.00
	00.74	internal LED indication DC		(dual LED non-polarised)	5.00
	Sockets and accessories				
	94.12.SMA	PCB mount socket		for relay 55.32	14.80
	94.14.SMA	PCB mount socket		for relay 55.34	15.50
	94.32.SMA	flange mount solder terminal		for relay 55.32	14.80
	94.34.SMA	flange mount solder terminal		for relay 55.34	15.50
	94.02.SPA*	surface/DIN mount screw terminal socket		for relay 55.32	36.50
	94.04.SPA*	surface/DIN mount screw terminal socket		for relay 55.34	40.20
	094.06	6 way jumper link		for sockets 94.02/04	20.00
	060.72	sheet of marking tags (72 tags)		for sockets 94.02/04	91.00
	* accepts plug-in LED, diode, timing modules (<i>plug directly into sockets</i>) (see pg 12)				
	56 Series	miniature power relays	(38 x 21(2p)41(4p)x 28mm)		
		• 2 and 4-pole versions			
		• cadmium-free contacts			
		• AC and DC coils			
		• lockable test button with mechanical flag indication			
	2-pole industrial relays		(37 x 20.7 x 27.7mm)		
	56.32.8012	plug-in/fast-on 187 relay	12A	2 changeover 12VAC	65.00
	56.32.8024	plug-in/fast-on 187 relay	12A	2 changeover 24VAC	65.00
	56.32.8048	plug-in/fast-on 187 relay	12A	2 changeover 48VAC	74.00
	56.32.8110	plug-in/fast-on 187 relay	12A	2 changeover 110VAC	74.00
	56.32.8230	plug-in/fast-on 187 relay	12A	2 changeover 230VAC	74.00
	56.32.9012	plug-in/fast-on 187 relay	12A	2 changeover 12VDC	65.00
	56.32.9024	plug-in/fast-on 187 relay	12A	2 changeover 24VDC	65.00
	56.32.9048	plug-in/fast-on 187 relay	12A	2 changeover 48VDC	74.00
	56.32.9060	plug-in/fast-on 187 relay	12A	2 changeover 60VDC	74.00
	56.32.9110	plug-in/fast-on 187 relay	12A	2 changeover 110VDC	74.00
	56.32.9220	plug-in/fast-on 187 relay	12A	2 changeover 220VDC	118.00
	4-pole industrial relays		(37 x 40.8 x 27.7mm)		
	56.34.8012	plug-in/fast-on 187 relay	12A	4 changeover 12VAC	108.00
	56.34.8024	plug-in/fast-on 187 relay	12A	4 changeover 24VAC	108.00
	56.34.8048	plug-in/fast-on 187 relay	12A	4 changeover 48VAC	116.00
	56.34.8110	plug-in/fast-on 187 relay	12A	4 changeover 110VAC	116.00
	56.34.8230	plug-in/fast-on 187 relay	12A	4 changeover 230VAC	116.00
	56.34.9012	plug-in/fast-on 187 relay	12A	4 changeover 12VDC	108.00
	56.34.9024	plug-in/fast-on 187 relay	12A	4 changeover 24VDC	108.00
	56.34.9048	plug-in/fast-on 187 relay	12A	4 changeover 48VDC	116.00
	56.34.9060	plug-in/fast-on 187 relay	12A	4 changeover 60VDC	116.00
	56.34.9110	plug-in/fast-on 187 relay	12A	4 changeover 110VDC	116.00
	56.34.9220	plug-in/fast-on 187 relay	12A	4 changeover 220VDC	116.00
	<i>Above relays also available in PCB mount (replace 56.3_ with 56.4_)</i>				
	Sockets miniature power relays				
	96.12.SMA	PCB mount socket		for relay 56.32	16.00
	96.14.SMA	PCB mount socket		for relay 56.34	20.00
	96.02.SPA*	surface/DIN mount screw terminal socket		for relay 56.32	46.00
	96.04.SMA*	surface/DIN mount screw terminal socket		for relay 56.34	54.00
	* accepts plug-in LED, diode, timing modules (<i>plug directly into sockets</i>) (see pg 12)				
					
					

new

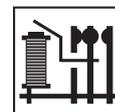
PCB mount relays

	type	description	current	coil voltage	price	
	60 Series	general purpose relays	(54.2 x 32.5 x 36.4mm)			
		<ul style="list-style-type: none"> • 2 and 3 pole changeover contacts • cadmium-free contacts • lockable test button with mechanical flag indication 				
		2-pole (8-pin plug-in)				
	60.12.8006	plug-in terminal industrial relay	10A	2 changeover	6VAC	75.00
	60.12.8012	plug-in terminal industrial relay	10A	2 changeover	12VAC	67.00
	60.12.8024	plug-in terminal industrial relay	10A	2 changeover	24VAC	67.00
	60.12.8036	plug-in terminal industrial relay	10A	2 changeover	36VAC	75.00
	60.12.8048	plug-in terminal industrial relay	10A	2 changeover	48VAC	75.00
	60.12.8060	plug-in terminal industrial relay	10A	2 changeover	60VAC	75.00
	60.12.8110	plug-in terminal industrial relay	10A	2 changeover	110VAC	75.00
	60.12.8230	plug-in terminal industrial relay	10A	2 changeover	230VAC	72.00
	60.12.8400	plug-in terminal industrial relay	10A	2 changeover	400VAC	90.00
	60.12.9006	plug-in terminal industrial relay	10A	2 changeover	6VDC	75.00
	60.12.9012	plug-in terminal industrial relay	10A	2 changeover	12VDC	67.00
	60.12.9024	plug-in terminal industrial relay	10A	2 changeover	24VDC	67.00
	60.12.9036	plug-in terminal industrial relay	10A	2 changeover	36VDC	75.00
	60.12.9048	plug-in terminal industrial relay	10A	2 changeover	48VDC	75.00
	60.12.9060	plug-in terminal industrial relay	10A	2 changeover	60VDC	75.00
	60.12.9110	plug-in terminal industrial relay	10A	2 changeover	110VDC	73.00
	60.12.9220	plug-in terminal industrial relay	10A	2 changeover	220VDC	106.00
		3-pole (11-pin plug-in)				
	60.13.8006	plug-in terminal industrial relay	10A	3 changeover	6VAC	76.00
	60.13.8012	plug-in terminal industrial relay	10A	3 changeover	12VAC	70.00
	60.13.8024	plug-in terminal industrial relay	10A	3 changeover	24VAC	70.00
	60.13.8036	plug-in terminal industrial relay	10A	3 changeover	36VAC	76.00
	60.13.8048	plug-in terminal industrial relay	10A	3 changeover	48VAC	76.00
	60.13.8060	plug-in terminal industrial relay	10A	3 changeover	60VAC	76.00
	60.13.8110	plug-in terminal industrial relay	10A	3 changeover	110VAC	76.00
	60.13.8230	plug-in terminal industrial relay	10A	3 changeover	230VAC	74.00
	60.13.8400	plug-in terminal industrial relay	10A	3 changeover	400VAC	92.00
	60.13.9006	plug-in terminal industrial relay	10A	3 changeover	6VDC	76.00
	60.13.9012	plug-in terminal industrial relay	10A	3 changeover	12VDC	70.00
	60.13.9024	plug-in terminal industrial relay	10A	3 changeover	24VDC	70.00
	60.13.9036	plug-in terminal industrial relay	10A	3 changeover	36VDC	76.00
	60.13.9048	plug-in terminal industrial relay	10A	3 changeover	48VDC	76.00
	60.13.9060	plug-in terminal industrial relay	10A	3 changeover	60VDC	76.00
	60.13.9110	plug-in terminal industrial relay	10A	3 changeover	110VDC	74.00
	60.13.9220	plug-in terminal industrial relay	10A	3 changeover	220VDC	108.00
		Extra charges				
	00.54	internal LED indication AC				20.00
	00.74	internal LED indication DC		(double LED non-polarised)		20.00
		Sockets and accessories for 60 series relays				
	90.12	8 pin panel mnt (flange)	solder terminal socket			12.70
	90.13	11 pin panel mnt (flange)	solder terminal socket			13.10
	90.14	8 pin P.C.B mount socket	terminal dia. 20.5mm			12.70
	90.14.1	8 pin P.C.B mount socket	terminal dia. 17.5mm			12.70
	90.15	11 pin P.C.B mount socket	terminal dia. 22.0mm			13.10
	90.15.1	11 pin P.C.B mount socket	terminal dia. 19.0mm			13.10
	90.20 SMA	8 pin surface / DIN mount screw terminal socket		standard		36.00
	90.21 SMA	11 pin surface / DIN mount screw terminal socket		standard		40.00
	90.22 SMA	8 pin surface / DIN mount screw terminal socket		oval		23.00
	90.23 SMA	11 pin surface / DIN mount screw terminal socket		oval		26.00
	90.26 SMA	8 pin surface / DIN mount screw terminal socket		square		37.00
	90.27 SMA	11 pin surface / DIN mount screw terminal socket		square		41.00
	90.48	8 pin surface / DIN mount screw terminal socket		rectangular		44.00
	90.49	11 pin surface / DIN mount screw terminal socket		rectangular		49.00
	90.02 SMA*	8 pin surface / DIN mount screw terminal socket		for modules		39.00
	90.03 SMA*	11 pin surface / DIN mount screw terminal socket		for modules		43.00
		* accepts plug-in LED, diode, timing modules (<i>plug directly into sockets</i>) (See pg 12)				
	090.06	6-way jumper link		for sockets 90.02/3		27.00
	060.72	sheet of snap-in identification tags (72)		for 60 series relays		91.00



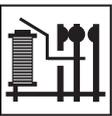
PCB mount / plug-in relays

	type	description	current	coil voltage	price
	62 Series	power relays	(47.6 x 38.2 x 36.mm)		
		<ul style="list-style-type: none"> reinforced insulation between coil and contacts to EN60335-1 plug-in or fast-on 187 (4.8 x 0.5mm) terminals lockable test button with mechanical flag indication 			
	62.33.8012	industrial power relays	16A	3 changeover 12VAC	77.00
	62.33.8024	industrial power relays	16A	3 changeover 24VAC	77.00
	62.33.8048	industrial power relays	16A	3 changeover 48VAC	84.00
	62.33.8110	industrial power relays	16A	3 changeover 110VAC	84.00
	62.33.8230	industrial power relays	16A	3 changeover 230VAC	81.00
	62.33.8400	industrial power relays	16A	3 changeover 400VAC	100.00
	62.33.9012	industrial power relays	16A	3 changeover 12VDC	77.00
	62.33.9024	industrial power relays	16A	3 changeover 24VDC	77.00
	62.33.9048	industrial power relays	16A	3 changeover 48VDC	84.00
	62.33.9110	industrial power relays	16A	3 changeover 110VDC	82.00
	62.33.9220	industrial power relays	16A	3 changeover 220VDC	117.00
	Above relays available in 2-pole also with PCB termination.				
	Sockets and accessories (supplied with retaining clip)				
	92.13 SMA	PCB mount socket			16.00
	92.33 SMA	flush mount socket solder terminal			16.00
	92.03 SMA*	surface / din rail mount socket screw terminal			60.00
	* accepts plug-in LED, diode, timing modules (plug directly into socket) (See pg 12)				
	060.72	sheet of snap-in identification tags (72)		for relays	91.00
	65 series	power relays	(42.2 x 32.2 x 36.5mm)		
		<ul style="list-style-type: none"> flange mount fast-on 250 (6.3 x 0.8mm) terminals AC and DC coils 			
	65.31.8.012	heavy duty industrial relay	20A	1 changeover 12VAC	69.00
	65.31.8.024	heavy duty industrial relay	20A	1 changeover 24VAC	69.00
	65.31.8.048	heavy duty industrial relay	20A	1 changeover 48VAC	76.00
	65.31.8.110	heavy duty industrial relay	20A	1 changeover 110VAC	76.00
	65.31.8.230	heavy duty industrial relay	20A	1 changeover 230VAC	74.00
	65.31.8.400	heavy duty industrial relay	20A	1 changeover 400VAC	93.00
	65.31.9.012	heavy duty industrial relay	20A	1 changeover 12VDC	69.00
	65.31.9.024	heavy duty industrial relay	20A	1 changeover 24VDC	69.00
	65.31.9.048	heavy duty industrial relay	20A	1 changeover 48VDC	76.00
	65.31.9.110	heavy duty industrial relay	20A	1 changeover 110VDC	74.00
	65.31.9.220	heavy duty industrial relay	20A	1 changeover 220VDC	110.00
	65.31.8.012.03	heavy duty industrial relay	30A	1 x normally open 12VAC	67.00
	65.31.8.024.03	heavy duty industrial relay	30A	1 x normally open 24VAC	67.00
	65.31.8.048.03	heavy duty industrial relay	30A	1 x normally open 48VAC	74.00
	65.31.8.110.03	heavy duty industrial relay	30A	1 x normally open 110VAC	74.00
	65.31.8.230.03	heavy duty industrial relay	30A	1 x normally open 230VAC	72.00
	65.31.8.400.03	heavy duty industrial relay	30A	1 x normally open 400VAC	90.00
	65.31.9.012.03	heavy duty industrial relay	30A	1 x normally open 12VDC	67.00
	65.31.9.024.03	heavy duty industrial relay	30A	1 x normally open 24VDC	67.00
	65.31.9.048.03	heavy duty industrial relay	30A	1 x normally open 48VDC	74.00
	65.31.9.110.03	heavy duty industrial relay	30A	1 x normally open 110VDC	72.00
	65.31.9.220.03	heavy duty industrial relay	30A	1 x normally open 220VDC	108.00
	66 series	2-pole power relays	(31x 51.5 x 33.5mm)		
		<ul style="list-style-type: none"> 2-pole changeover 30A power relay reinforced insulation between coil and contacts to EN60335-1 8mm creepage and clearance distance flange mount fast-on 250 (6.3 x 0.8mm) termination (DIN rail mount with accessory) 			
	66.82.8.012	high power industrial relay	30A	2 changeover 12VAC	83.00
	66.82.8.024	high power industrial relay	30A	2 changeover 24VAC	83.00
	66.82.8.048	high power industrial relay	30A	2 changeover 48VAC	83.00
	66.82.8.110	high power industrial relay	30A	2 changeover 110VAC	83.00
	66.82.8.230	high power industrial relay	30A	2 changeover 220VAC	88.00
	66.82.9.012	high power industrial relay	30A	2 changeover 12VDC	83.00
	66.82.9.024	high power industrial relay	30A	2 changeover 24VDC	83.00
	66.82.9.110	high power industrial relay	30A	2 changeover 110VDC	90.00
	066.07	top mount bracket for DIN 35mm rail mounting			12.00
	Above relays available with PCB mount termination (replace 66.82_ with 66.22_)				



Modular relays / step relays / daylight switches

	type	description				price																																			
 19.21	19 Series modular DIN rail mount (84 x 11.2 x 57mm)																																								
	19 Series - slimline (11.2mm wide) auto-off-on relay																																								
	• LED indication - manual override switch																																								
	19.21.0024	slimline modular relay	10A	1 changeover	24V AC/DC	225.00																																			
	019.40	sheet of marker tags for above relay (40 x tags)			41.00																																				
 20.23	20 Series modular step relays (84 x 17.5 x 57mm)																																								
	20 Series - modular (max. pulse duration 1 hour)																																								
	• one module (17.5mm) wide																																								
	• AC and DC coils																																								
	• manual override / test button																																								
	• mechanical flag indicators																																								
					<table border="1"> <thead> <tr> <th>Type</th> <th>No of steps</th> <th colspan="4">Sequence</th> </tr> <tr> <th></th> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>20.23</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20.26</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20.24</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20.28</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Type	No of steps	Sequence						1	2	3	4	20.23	2					20.26	3					20.24	4					20.28	4				
	Type	No of steps	Sequence																																						
			1	2	3	4																																			
	20.23	2																																							
	20.26	3																																							
	20.24	4																																							
20.28	4																																								
20.23.8012	2 step modular step relay	16A	2 contact	12 VAC	172.00																																				
20.23.8024	2 step modular step relay	16A	2 contact	24 VAC	172.00																																				
20.23.8110	2 step modular step relay	16A	2 contact	110 VAC	172.00																																				
20.23.8230	2 step modular step relay	16A	2 contact	230 VAC	172.00																																				
20.23.9012	2 step modular step relay	16A	2 contact	12 VDC	172.00																																				
20.23.9024	2 step modular step relay	16A	2 contact	24 VDC	172.00																																				
20.26.8012	3 step modular step relay	16A	2 contact	12 VAC	172.00																																				
20.26.8024	3 step modular step relay	16A	2 contact	24 VAC	172.00																																				
20.26.8110	3 step modular step relay	16A	2 contact	110 VAC	172.00																																				
20.26.8230	3 step modular step relay	16A	2 contact	230 VAC	172.00																																				
20.26.9012	3 step modular step relay	16A	2 contact	12 VDC	172.00																																				
20.26.9024	3 step modular step relay	16A	2 contact	24 VDC	172.00																																				
20.24.8012	4 step modular step relay	16A	2 contact	12 VAC	172.00																																				
20.24.8024	4 step modular step relay	16A	2 contact	24 VAC	172.00																																				
20.24.8110	4 step modular step relay	16A	2 contact	110 VAC	172.00																																				
20.24.8230	4 step modular step relay	16A	2 contact	230 VAC	172.00																																				
20.24.9012	4 step modular step relay	16A	2 contact	12 VDC	172.00																																				
20.24.9024	4 step modular step relay	16A	2 contact	24 VDC	172.00																																				
20.28.8012	4 step modular step relay	16A	2 contact	12 VAC	172.00																																				
20.28.8024	4 step modular step relay	16A	2 contact	24 VAC	172.00																																				
20.28.8110	4 step modular step relay	16A	2 contact	110 VAC	172.00																																				
20.28.8230	4 step modular step relay	16A	2 contact	230 VAC	172.00																																				
20.28.9012	4 step modular step relay	16A	2 contact	12 VDC	172.00																																				
20.28.9024	4 step modular step relay	16A	2 contact	24 VDC	172.00																																				
Standard voltages: 12 - 24 - 110 VAC/DC 230 VAC																																									
 26.03	26 Series step relays (pulse "on", pulse "off") (47 x 45 x 22mm)																																								
	26 Series - base mount (max. pulse duration 1 hour)																																								
	2603.8012	base mounting step relay	10A	1 NO + 1 NC	12 VAC	82.00																																			
	2603.8024	base mounting step relay	10A	1 NO + 1 NC	24 VAC	82.00																																			
	2603.8110	base mounting step relay	10A	1 NO + 1 NC	110 VAC	82.00																																			
	2603.8230	base mounting step relay	10A	1 NO + 1 NC	230 VAC	82.00																																			
0269.0.12	module for operating 26 series relays	on DC	at	12 VDC	62.00																																				
0269.0.24	module for operating 26 series relays	on DC	at	24 VDC	62.00																																				
 10.51	10 Series daylight switches 230VAC (110.6 x 58.6 x 40mm)																																								
	• adjustable sensitivity (1 to 80 Lux)																																								
	• built-in time delay (on 15 sec / off 30 sec)																																								
	• LED indication of relay status																																								
• pole or wall mounting (brackets supplied)																																									
10.41.8230	wall / pole mount daylight switch	IP54	16A	1 NO	230 VAC	349.00																																			
10.42.8230	wall / pole mount daylight switch	IP54	16A	2 NO	230 VAC	438.00																																			
10.51.8230	mini wall/pole mnt. daylight switch	IP54	12A	1 NO	230 VAC	312.00																																			
 11.71	11 Series modular daylight switches 230VAC (84 x 17.5 x 57mm)																																								
	• adjustable sensitivity (1 to 100 Lux)																																								
• built-in time delay (on 15 sec / off 30 sec)																																									
• LED indication of relay status																																									
• modular DIN rail mounting																																									
• separate mounting of photo sensor																																									
11.71.8230	modular rail mount daylight switch	16A	1 NO	230 VAC	384.00																																				



Plug-in LED / diode / timer modules

Plug-in modules are convenient add-on devices for relays, they offer LED indication (for easy viewing of relay state from a distance, diode protection, RC circuits, bypass and timing facilities for all socket mounted plug-in relays. The modules simply plug into specific sockets enhancing the relays functionality.

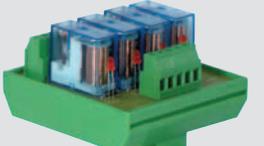
type	description	voltage	price
Plug-in LED indication, EMC suppression and timer modules			
Diode module			
Recovery diode modules are used for DC applications. The reverse voltage peaks of the coil are short circuited by the recovery diode. Release time is increased by an approximate factor of three.			
99.02.3000.00	diode module (standard polarity A1/+)	6-220VDC	14.00
LED module			
Used for AC and DC. The LED indicator illuminates when the relay coil is energised. It is essential to connect "+" to terminal A1 in DC applications.			
99.02.0.024.59	green LED module	6-24V AC/DC	21.00
99.02.0.060.59	green LED module	28-60V AC/DC	21.00
99.02.0.230.59	green LED module	110-240V AC/DC	21.00
LED + diode module			
Recovery diode module + LED are used for DC only reverse voltage peaks are short circuited by the recovery diode (positive to terminal A1). The LED illuminates when the relay is energised.			
99.02.9.024.99	green LED + diode module	6-24V AC/DC	24.00
99.02.9.060.99	green LED + diode module	28-60V AC/DC	24.00
99.02.9.220.99	green LED + diode module	110-220V AC/DC	24.00
RC module			
RC circuit modules are used for AC and DC applications. The reverse voltage peaks of the coil are limited by the RC module to approximately 2.5 times the nominal supply voltage. Insignificant increase in release time.			
99.02.0.024.09	RC module for AC / DC lines	6-24V AC/DC	30.00
99.02.0.060.09	RC module for AC / DC lines	28-60V AC/DC	30.00
99.02.0.230.09	RC module for AC / DC lines	110-240V AC/DC	30.00
Residual current bypass module			
Bypass modules are used in applications for 110 and 220V AC relays with a tendency to fail to release. Mainly caused by residual currents from AC proximity switches or inductive coupling caused by long parallel lying AC control lines.			
99.02.8.230.07	residual current bypass module	110-240V AC/DC	24.00
Timer module			
<ul style="list-style-type: none"> • multi-function, multi-voltage timer module • time range 1s,10s,100s,10m,100m,10hr, 100hrs (adjustable) • plugs directly into sockets converting standard relays into timing devices 			
86.30.0.024	multi-range, bi-function, multi-voltage module	12-24V AC/DC	182.00
86.30.8.240	multi-range, bi-function, multi-voltage module	230V AC	204.00
86.00.0.240	multi-range, multi-function & voltage timer module	12-240V AC/DC	320.00

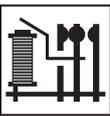


new

new

Relay interface modules

	type	description					price
38 Series slimline interface modules (1-pole 6.2mm / 2-pole 14mm wide)							
 38.51  38.52  38.81  43.04  43.04  34.08  40.04  40.04	new						
	<ul style="list-style-type: none"> • sensitive DC coil or AC/DC versions • integral coil indication and circuit protection circuit 						
	38.51.7.012	1 pole	slimline relay interface	6A	1 CO	12 VDC	96.00
	38.51.7.024	1 pole	slimline relay interface	6A	1 CO	24 VDC	96.00
	38.51.0.024	1 pole	slimline relay interface	6A	1 CO	24 VAC/DC	105.00
	38.51.0.240	1 pole	slimline relay interface	6A	1 CO	230 VAC/DC	126.00
	38.52.7.012	2 pole	relay interface	8A	2 CO	12 VDC	96.00
	38.52.7.024	2 pole	relay interface	8A	2 CO	24 VDC	96.00
	38.52.0.024	2 pole	relay interface	8A	2 CO	24 VAC/DC	105.00
	38.52.0.240	2 pole	relay interface	8A	2 CO	230 VAC/DC	126.00
Solid-state relay interfaces (1-pole 6.2mm / 2-pole 14mm wide)							
	type	description		current	operating range	switching voltage	price
new	38.81.7.024.9024	solid state interface		2A	1NO	16-30VDC 1.5-24VDC	195.00
	38.81.7.024.8240	solid state interface		2A	1NO	16-30VDC 12-240VAC	203.00
	38.31.7.024.9024	solid state interface		5A	1NO	16-30VDC 1.5-35VDC	241.00
	38.31.7.024.8240	solid state interface		3A	1NO	16-30VDC 12-275VAC	235.00
	4304 Series relay interface 4-way (43 series relay 10A)						
	<ul style="list-style-type: none"> • 4-way DIN rail (EN 50022) mounting relay interface module • compact (H) 90 x (W) 54 x (D) 30mm (with relays) • incorporates LED relay status indication and diode protected coils • negative common <i>positive (+) common on request</i> 						
4304.9.012	4 way	fixed	relay interface	4 x 10A changeover	12 VDC	140.00	
4304.9.024	4 way	fixed	relay interface	4 x 10A changeover	24 VDC	140.00	
4304.9.000P	4 way	plug-in version (DC relays to be ordered separately)				62.00	
34 Series relay interface 8-way (34 series relay 6A)							
<ul style="list-style-type: none"> • 8-way DIN rail (EN 50022) mounting relay interface module • compact (H) 90 x (W) 54 x (D) 45mm (with relays) • incorporated LED relay status indication and diode protected coils • negative common <i>positive (+) common on request</i> 							
3408.9.012	8 way	fixed	relay interface	6A changeover	12 VDC	352.00	
3408.9.024	8 way	fixed	relay interface	6A changeover	24 VDC	352.00	
4004 Series relay interface 4-way (40 series relay 10A)							
<ul style="list-style-type: none"> • 4-way DIN rail (EN 50022) mounting relay interface module • (H) 76 x (W) 71 x (D) 55mm (with relays) • incorporates LED relay status indication / diode protected coils (on DC models only) • negative common <i>positive (+) common on request</i> 							
4004.9.012	4 way	relay interface module		10A changeover	12 VDC	195.00	
4004.9.024	4 way	relay interface module		10A changeover	24 VDC	195.00	
4004.8.230	4 way	relay interface module		10A changeover	230 VAC	295.00	
4004.9.000P	4 way	plug-in version (DC relays to be ordered separately)				111.00	
4004.8.000P	4 way	plug-in version (AC relays to be ordered separately)				117.00	



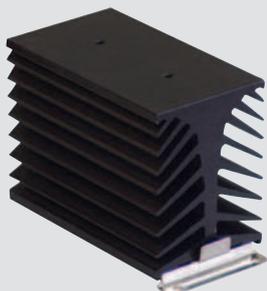
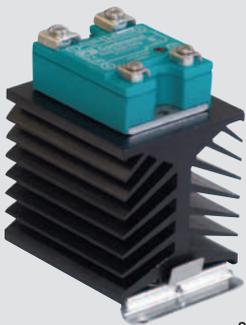
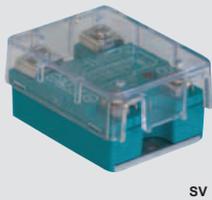
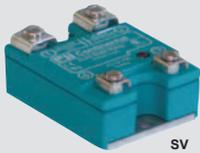
Solid state relays

SV solid state relays incorporate Superior Surge Survival technology combined with a higher level of factory hardened toughness, generating significantly less heat. These relays lead the industry with new triple layer survivability.

SV Series

- LED status indicator
- transparent safety cover (included)
- optically isolated
- built-in snubber
- 4000V isolation
- high surge capability
- peak blocking voltage 800V (3V) 1200V (6V)
- zero voltage turn-on
- direct copper bonded SCRs
- EN60947 / UL / CSA

** adequate heatsinking including consideration of air temperature and flow is essential (see heatsinks below)*



type	control voltage	load current	operational voltage	description	price
------	-----------------	--------------	---------------------	-------------	-------

DC control

SVDA/3V10	4-32 VDC	10A	24-330 VAC	solid state relay	210.00
SVDA/3V25	4-32 VDC	25A	24-330 VAC	solid state relay	256.00
SVDA/3V50	4-32 VDC	50A	24-330 VAC	solid state relay	366.00
SVDA/3V75	4-32 VDC	75A	24-330 VAC	solid state relay	594.00
SVDA/6V50	4-32 VDC	50A	24-660 VAC	solid state relay	448.00
SVDA/6V75	4-32 VDC	75A	24-660 VAC	solid state relay	630.00

AC control

SVAA/3V10	100-280 VAC	10A	24-330 VAC	solid state relay	289.00
SVAA/3V25	100-280 VAC	25A	24-330 VAC	solid state relay	295.00
SVAA/3V50	100-280 VAC	50A	24-330 VAC	solid state relay	416.00
SVAA/3V75	100-280 VAC	75A	24-330 VAC	solid state relay	630.00
SVAA/6V50	100-280 VAC	50A	24-660 VAC	solid state relay	610.00
SVAA/6V75	100-280 VAC	75A	24-660 VAC	solid state relay	760.00

DC-in, DC-out relays

SVDD/1V12	4-28 VDC	12A	0-100 VDC	solid state relay	445.00
SVDD/1V20	4-28 VDC	20A	0-100 VDC	solid state relay	511.00
SVDD/1V40	4-28 VDC	40A	0-100 VDC	solid state relay	660.00

Heat sinks

The above current ratings are based on sufficient cooling provided for the relays

- DIN rail mountable / space saving design
- performance designed for maximum thermal efficiency

type	°C / watt	for relay	description	price
HEATSK-DIN-1.6	1.6°	10-40A	DIN rail mountable heatsink	212.00
HEATSK-DIN-1.0	1.0°	35-75A	DIN rail mountable heatsink	289.00

Thermal transfer pads (excellent replacement for thermal greases)

THERMAL-PAD-005	thermal transfer pads to mount between relay & heatsink (5 pcs)	64.00
------------------------	---	--------------