

Relays and Contactors



durakoolrelays.com





Durakool

Durakool, a Solid State Group Brand, has a long history, some 90 years, in the manufacturing of specialised, highly engineered, electrical and electronic components, primarily for automotive and industrial applications.

This catalogue gives overview information of our current relays and contactors, including HVDC contactors for Electric Vehicle and "green energy" applications.

Durakool's unique range of miniature automotive relays and HVDC contactors are specially designed for applications up to 1000VDC, together with high current switching of DC loads. Specialist contactors can switch more than 3000A up to 72VDC, or 600A up to 1000VDC, and our miniature automotive Micro, Mini and Maxi ISO style HVDC relays fit industry standard relay sockets and terminals.

Through our disciplined approach, we have earned an excellent reputation for our technical innovation, agility, rapid response and high reliability. Our Team has a "CAN DO" attitude and is ready to tackle your most challenging applications.

Our creative engineering team has extensive experience in harsh environmental packaging concepts. We use high quality products and make our own glass to metal hermetic seals.

Please contact our Engineering Team at Willow Technologies Limited, AEC, or your local distributor for further information and non standard items from within our extensive product range.

Specifications are subject to change without notice. E&OE

Controlling electricity for more than 80 years!



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Automotive Plug-in Relays

	DC20	DE20	DG55	DG55M	DG56A	DG56C	DG57BM	DG57CM
	OURANOOL DOLLAR TE STE THE STEEL TE STE	JURAKOOL 022-983-35491 304-59070C 1900C			201100 20	DESECTOR 1-5-104 DESECTOR 1-5-104	JURANOCE CONTINUES IN SUCCESSION OF THE SUCCESSION IN SUCCESSION OF THE SUCCESSION O	COCCUSION OF COCCU
Contact Configuration	SPST-NO-DM	SPST-NO-DM	SPST-NO, SPDT	SPST-NO	SPST-NO, SPDT, SPST- NC, SPST-DM	SPST-NO	SPST-NO, SPDT	SPST-NO
Rated Current	20A (25A PCB)	20A (25A PCB)	60A	40A	40A	70A	60A	80A
Max. Switching Voltage (current dependent)	450VDC	450VDC	24VDC	110VDC	75VDC	75VDC	110VDC	145VDC
Coil Voltages (DC)	12V, 24V, 48V, 60V, 80V	12V, 24V	12V, 24V	12V, 24V, 48V	6V, 12V, 24V	6V, 12V, 24V	6V, 12V, 24V, 36V, 48V, 50V, 60V	6V, 12V, 24V, 36V, 48V, 50V, 60V
Contact Material	AgCu10	AgSnO²	AgSnO²	AgSnO²	AgSnO²	AgSnO²	AgSnO²	AgSnO²
Operating Temperature Range (consult factory for >85°C)	-40 to +85°C	-40 to +85°C	-40 to +125°C	-40 to +85°C	-40 to +125°C	-40 to +105°C	-40 to +125°C	-40 to +125°C
Terminal outline	mini-ISO	Custom	mini-ISO	mini-ISO	mini-ISO	macro-ISO	mini-ISO	macro-ISO
Mounting	Plug-in, Chassis or PCB	Chassis or PCB	Plug-in	Plug-in	Plug-in or PCB	Plug-in or PCB	Plug-in or PCB	Plug-in or PCB
Magnet arc quench	Ø	V		Ø			Ø	V
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Automotive Plug-in Relays

DG82	DG85A	DG85B	DG85BM	DG85C	DG85CM	DG85D	DG85F	
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SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO	SPST-NO	SPST-NO, SPDT	Contact Configuration
40A	40A	60A	25A	80A	60A	100A	60A	Rated Current
16VDC	30VDC	30VDC	110VDC	30VDC	145VDC	30VDC	30VDC	Max. Switching Voltage (current dependent)
6V, 12V, 24V	6V, 12V, 24V	6V, 12V, 24V	6V, 9V, 12V, 24V, 36V, 48V, 110V	6V, 12V, 24V	6V, 9V, 12V, 24V, 36V, 48V, 110V	6V, 12V, 24V	6V, 12V, 24V	Coil Voltages (DC)
AgNi0.15, AgNi90/10, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgSnO²	AgNi0.15, AgNi90/10, AgSnOInO	AgSnO²	AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	Contact Material
-40 to +125°C	-40 to +125°C	-40 to +125°C	-40 to +85°C	-40 to +125°C	-40 to +85°C	-40 to +125°C	-40 to +125°C	Operating Temperature Range (consult factory for >85°C)
micro-ISO	mini-ISO	mini-ISO	mini-ISO	macro-ISO	macro-ISO	macro-ISO	mini-ISO	Terminal outline
Plug-in or PCB	Plug-in or PCB	Plug-in or PCB	Plug-in or PCB	Plug-in or PCB	Plug-in or PCB	Plug-in or PCB	Plug-in or PCB	Mounting
			Ø		Ø			Magnet arc quench
1000			Replaced by DG57BM		Replaced by DG57CM			Approvals



Automotive Plug-in Relays

	DG85G	DG86N	DG90	DG91/ DG91N	DG92	DG82 JMPR	DG85A JMPR	DG85D JMPR
	ALTERNACIO ALTERNACIONO ALTERNACIONO ALTE	JURAKOO L COMPACT STANDARD STA		man train and a second and a se	77	JURANOOL DOGS, JURY 1	□URANCOL DOSSAJASER	©URAKOOL SCHOLAPPR
Contact Configuration	SPST-NO, SPDT	SPST-NO	SPST-NO	SPST-NO, SPDT	SPST-NO, SPDT	Link	Link	Link
Rated Current	80A	200A	20A	35A	40A	40A	40A	100A
Max. Switching Voltage (current dependent)	30VDC	40VDC	16VDC	75VDC	75VDC	n/a	n/a	n/a
Coil Voltages (DC)	6V, 12V, 24V	12V, 24V	12V	6V, 12V, 24V	6V, 12V, 24V	n/a	n/a	n/a
Contact Material	AgSnOInO	AgSnO²	AgSnO²	AgSnO²	AgSnO²	n/a	n/a	n/a
Operating Temperature Range (consult factory for >85°C)	-40 to +125°C	-40 to +85°C	-40 to +120°C	-40 to +125°C	-40 to +85°C	-40 to +125°C	-40 to +125°C	-40 to +125°C
Terminal outline	macro-ISO	Custom S S S S S S S S S S S S S S S S S S	micro-ISO	micro-ISO280	mini-ISO280	micro-ISO	mini-ISO	macro-ISO
Mounting	Plug-in or PCB	Plug-in with screw power terminals	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in
Magnet arc quench		_		_				_
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Automotive Special Function Plug-in Relays

DG43A	DG43E	DG43F	DG44	DG46	DG56T	DG82T	
OR AND THE STATE OF THE STATE O		MUNANOU.	SCHANOOL SCHANASCH STATE	TANGO	BIRMOOK.	PURANCO WINDSHIP TO I	
Flasher	Flasher	Flasher	Flasher	Seat belt controller	Timer (SPST- NO, SPDT)	Timer (SPST- NO, SPDT)	Function
12.5A	20A	20A	20A	10A	30A	5A	Rated Inrush Current
15VDC	15VDC	15VDC	15VDC	28VDC	145VDC	16VDC	Max. Switching Voltage (current dependent)
12V, 24V	12V, 24V	12V, 24V	12V, 24V	12V, 24V	12V, 24V	12V, 24V	Coil Voltages (DC)
AgSnO²	AgSnO²	AgSnO²	AgSnO²	AgSnO²	AgSnO²	AgSnO²	Contact Material
-40 to +80°C	-40 to +85°C	-40 to +80°C	-40 to +70°C	-30 to +85°C	-30 to +85°C	-40 to +85°C	Operating Temperature Range (consult factory for >85°C)
mini-ISO	mini-ISO	mini-ISO	mini-ISO	mini-ISO	mini-ISO	micro-ISO	Terminal outline
Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Mounting
							Magnet arc quench
							Approvals



Automotive PCB Relays

	DC20	DE20	DG08	DG17	DG17M	DG18	DG19	DG20
	□ URAKOOL BCD4513-997 Simma Simma DC 7 = Simb L 0 7 Simb	URAKOOL CCSA9/13-5491 SA 4090c 190c	Section 1971					
Contact Configuration	SPST-NO-DM	SPST-NO-DM	2 x SPDT	SPST-NO, SPST-NO-DM, SPDT, SPDT- DB-DM	SPST-NO, SPST-NC	SPST-NO, SPST-NC, SPDT	SPST-NO, SPST-NC, SPDT	SPST-NO, SPDT
Rated Current (continuous))	25A	25A	35A (10mins)	15A, 2 x 10A	15A	20A	45A	30A
Max. Switching Voltage (current dependent)	450VDC	450VDC	16VDC	16VDC	450VDC	16VDC	30VDC	16VDC
Coil Voltages (DC)	12V, 24V, 48V, 60V, 80VDC	12V, 24V	6V, 9V, 10V, 12V, 24V	6V, 12V, 24V	6V, 12V, 24V	6V, 9V, 12V, 24V	6V, 12V, 24V	10V, 12V
Contact Material	AgCu10	AgSnO ₂	AgNi0.15, AgNi90/10, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgSnO ₂	AgSnO ₂	AgNi0.15, AgNi90/10, AgSnOlnO, AgSnO,	AgNi0.15, AgSnOInO
Operating Temperature Range (consult factory for >85°C)	-40 to +85°C	-40 to +85°C	-30 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +125°C	-40 to +105°C
Terminal outline	mini-ISO	- 1		0 0 0		° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °		
Mounting	PCB, Plug-in or Chassis	PCB, Plug-in or Chassis	PCB	PCB	PCB	PCB	РСВ	РСВ
Magnet arc quench	Ø	Ø			Ø			
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Automotive PCB Relays

DG27	DG31A	DG55M	DG56A	DG56C	DG57BM	DG57CM	DG60	
		190 8	The state of the s	DOSC 785 175 1884 2	### URAKOOL DOTTELSON 15 May 15 May	JURNOOL DOOD MAGE UN HOD THE SE SE SE SE SE SE SE SE SE SE SE SE SE S	200 30 d d d d d d d d d d d d d d d d d	
2 x SPST-NO, 2 x SPDT	SPST-NO, SPDT	SPST-NO	SPST-NO, SPDT, SPST- NC, SPST-DM	SPST-NO	SPST-NO, SPDT	SPST-NO	SPDT, 2 x SPDT	Contact Configuration
2 x 30A	20A	40A	40A	70A	60A	80A	25A	Rated Current
16VDC	16VDC	110VDC	75VDC	75VDC	110VDC	145VDC	16VDC	Max. Switching Voltage (current dependent)
6V, 10V, 12V	6V, 12V, 24V	12V, 24V, 48V	6V, 12V, 24V	6V, 12V, 24V	6V, 12V, 24V, 36V, 48V, 50V, 60V	6V, 12V, 24V, 36V, 48V, 50V, 60V	12V	Coil Voltages (DC)
AgNi0.15, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgSnO,	AgSnO,	AgSnO,	AgSnO,	AgSnO,	AgSnO _₂	Contact Material
-40 to +105°C	-40 to +85°C	-40 to +85°C	-40 to +125°C	-40 to +125°C	-40 to +125°C	-40 to +125°C	-40 to +105°C	Operating Temperature Range (consult factory for >85°C)
	0 0 0 0 0	conforms to mini-ISO	mini-ISO	macro-ISO	mini-ISO	macro-ISO		Terminal outline
PCB	PCB	PCB or Plug-in	PCB or Plug-in	PCB or Plug-in	PCB or Plug-in	PCB or Plug-in	РСВ	Mounting
		Ø			Ø	Ø		Magnet arc quench
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Automotive PCB Relays

	DG81	DG81B	DG81C	DG82	DG85A	DG85B	DG85C	DG85D
				America, total to a significant of the significant	JURAMOOL SOME AND A STATE OF THE STATE OF TH	### URANO OL DOMESTI ASSOCIA 1	Appearoot	Sunaccon Destructives of 15
Contact Configuration	SPST-NO, SPST-NO-DM, SPDT	SPST-NO-DM	SPST-NO-DM	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO
Rated Current	25A, 2 x 10A	2 x 15A	2 x 30A	40A	60A	60A	80A	100A
Max. Switching Voltage (current dependent)	16VDC	16VDC	16VDC	16VDC	30VDC	30VDC	30VDC	30VDC
Coil Voltages (DC)	6V, 9V, 10V, 12V, 24V	6V, 9V, 10V, 12V	6V, 9V, 10V, 12V	6V, 12V, 24V	6V, 12V, 24V	6V, 12V, 24V	6V, 12V, 24V	6V, 12V, 24V
Contact Material	AgNi0.15, AgSnOInO	AgNi0.15, AgSnOlnO	AgNi0.15, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgSnOlnO
Operating Temperature Range (consult factory for >85°C)	-30 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +125°C	-40 to +125°C	-40 to +125°C	-40 to +125°C	-40 to +125°C
Terminal outline		° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	0 0	micro-ISO	mini-ISO	mini-ISO	macro-ISO	macro-ISO
Mounting	РСВ	PCB	PCB	PCB or Plug-in	PCB or Plug-in	PCB or Plug-in	PCB or Plug-in	PCB or Plug-in
Magnet arc quench								
Approvals					25			

Automotive PCB Relays & HVDC Contactors

DG85F	DG85G	DG88A		DEVR 03 PCB	DEVR 05 PCB	DEVR 10 PCB	
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SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT, SPST-DM		SPST-NO-DM	SPST-NO-DM	SPST-NO-DM	Function
60A	80A	40A		30A	55A	100A	Rated Inrush Current
30VDC	30VDC	75VDC		900V	900V	900V	Max. Switching Voltage (current dependent)
6V, 12V, 24V	6V, 12V, 24V	6V, 12V, 24V		6V, 12V, 24V, 28V, 36V, 48V, 72V	6V, 12V, 24V, 28V, 36V, 48V, 72V	6V, 12V, 24V, 28V, 36V, 48V, 72V	Coil Voltages (DC)
AgNi0.15, AgNi90/10, AgSnOInO	AgSnOInO	AgSnO ₂ AgSnOInO		T2 + Ag	T2 + Ag	T2 + Ag	Contact Material
-40 to +125°C	-40 to +125°C	-40 to +85°C		-40 to +85°C	-40 to +85°C	-40 to +85°C	Operating Temperature Range (consult factory for >85°C)
mini-ISO 0 0 0 0 0 0 0 0 0	macro-ISO 1 57 1 57 1 55	mini-ISO					Terminal outline
PCB or Plug-in	PCB or Plug-in	PCB or Plug-in		РСВ	РСВ	РСВ	Mounting
				Ø	Ø	Ø	Magnet arc quench
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Automotive HVDC Contactors - up to 1000VDC

	DEVR 01	DEVR 03	DEVR 03 PCB	DEVR 05	DEVR 05 PCB	DEVR 10	DEVR 10 PCB	DEVR 10DP	DEVR 13	DEVR 15
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Contact Configuration	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	2 X SPST- NO-DM	SPST-NO- DM	SPST-NO- DM, SPST- NC-DB
Rated Current	10A	30A	30A	55A	55A	120A	120A	2 x 120A	135A	150A
Max.Continuous Current (600s)	20A (180s)	90A (30s)	90A (30s)	150A (30s)	150A (30s)	140A	140A	2 x 140A	200A	250A
Max. Short Circuit Current	100A	300A	300A	500A	500A	600A	600A	2 x 600A	650A	NO:1000A NC:1500A
Max. Switching Voltage	900VDC	900VDC	900VDC	900VDC	900VDC	900VDC	900VDC	1000VDC	900VDC	900VDC
Coil Voltages (DC)	6V, 12V, 24V, 28V, 36V, 48V, 72V	6V, 12V, 24V, 28V, 36V, 48V, 72V	6V, 12V, 24V, 28V, 36V, 48V, 72V	6V, 12V, 24V, 28V, 36V, 48V, 72V	12V	6V, 12V, 24V, 28V, 36V, 48V, 72V	6V, 12V, 24V, 28V, 36V, 48V, 72V			
Operating Temperature Range	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C
Auxiliary Switch (Optional)						Ø	Ø	Ø	V	Ø
Coil Economizer									Optional External PWM Economiser	Optional External PWM Economiser
Dimensions (approx.) mm (varies with options)	37.2 x 51.3 x 47.8	37.2 x 51.3 x 47.8	49.5 x 51 x 37.7	37.2 x 51.3 x 47.8	49.5 x 51 x 37.7	40 x 53.8 x 59.1	61.1 x 53.8 x 43	93 x 58.5 x 79	40 x 54 x 59, 47.3 x 69.5 x 66.7	53.8 x 69.4 x 66.7
Approx. weight (varies with options)	120g	120g	150g	120g	150g	190g	220g	510g	190g / 355g (with PWM)	355g/ 375g (with PWM)
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Automotive HVDC Contactors - up to 1000VDC

DHVC 200	DLVC 400	DEVR 20	DEVR 25	DEVR 30	DEVR 35	DEVR 40	DEVR 45	DEVR 50	DEVR 60	
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SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	SPST-NO- DM	Contact Configuration
200A	400A	400A	450A	500A	550A	600A	600A	600A	600A	Rated Current
500A	400A	500A	550A	600A	650A	700A	700A	800A	1000A	Max.Continuous Current (600s)
2000A	4000A	2000A	2000A	2000A	2000A	2000A	3300A	3300A	3300A	Max. Short Circuit Current
900VDC	120VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	Max. Switching Voltage
9 ~ 36V 32 ~ 95V	12V, 24V, 48V, 60V	9 ~ 36V 32 ~ 95V	9 ~ 36V 32 ~ 95V	9 ~ 36V 32 ~ 95V	9 ~ 36V 32 ~ 95V	9 ~ 36V 32 ~ 95V	9 ~ 36V	9 ~ 36V	9 ~ 36V	Coil Voltages (DC)
-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C	Operating Temperature Range
V	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Auxiliary Switch (Optional)
		Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Coil Economizer
80.4 x 52 x 85.8	59.6 x 58.2 x 93.8	58.2 x 80.5 x 72.1	58.2 x 80.5 x 72.1	58.2 x 80.5 x 72.1	58.2 x 80.5 x 72.1	58.2 x 80.5 x 72.1	78 x 67 x 104.5	78 x 67 x 104.5	78 x 67 x 104.5	Dimensions (approx.) mm (varies with options)
550g	650g	430g	430g	430g	430g	430g	800g	800g	800g	Approx. weight (varies with options)
CA CE	₽ĶC€	CA CE	₽₩C€	₽ĶC€	₽ĶC€	CA CE	₽ĶC€	KKCE	₽ĶC€	Approvals



Automotive LVDC Contactors - up to 120VDC

	DJQ05	DJQ10	DJQ20	DJQ40	DJQ60	DLVC400	DSC05D	DSC08

Contact Configuration	SPST-NO-DM	SPST-NO-DM	SPST-NO-DM	SPST-NO-DM	SPST-NO-DM	SPST-NO-DM	SPST-NC-DB	SPST-NO-DM
Rated Current	50A	100A	200A	400A	600A	400A	50A	80A
Max. Switching Voltage	48VDC	48VDC	48VDC	48VDC	48VDC	80VDC	48VDC	120VDC
Coil Voltages (DC)	12V, 24V, 48V, 60V	12V, 24V, 48V, 60V	12V, 24V, 48V, 60V	12V, 24V, 48V, 60V	12V, 24V, 48V, 60V	12V, 24V, 48V, 60V	12V, 24V, 30V, 36V, 48V, 60V, 72V, 80V, 96V, 120V	12V, 24V, 30V, 36V, 48V, 60V, 72V, 80V, 96V, 120V
Contact Material	AgCuO	AgCuO	AgCuO	AgCuO	AgCuO	Cu	AgCuO	AgCu
Operating Temperature Range	-40 to 65°C	-40 to 65°C	-40 to 65°C	-40 to 65°C	-40 to 65°C	-40 to 85°C	-40 to 65°C	-25 to 85°C
Approx. weight (varies with options)	0.175kgs	0.280kgs	0.495kgs	1.020kgs	1.500kgs	0.650kgs	0.175kgs	0.180kgs
Auxiliary Switch (Optional)			V	V	V		2	Ø
Built-in Twin Coil Economizer		V	Ø	Ø	V			
Latching type available		11					000	
Magnetic arc quench						Ø		(optional)
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Automotive LVDC Contactors - up to 120VDC

DSC10	DSC10D	DSC12	DSC15	DSC20	DSC20D	DSC25	DSC30	
						S # 8	0.00	
SPST-NO-DM	SPST-NC-DB	SPST-NO-DM, SPDT, DPDT, DPST-NO	SPST-NO-DM	SPST-NO-DM, SPDT, DPDT, DPST-NO	SPST-NC-DB	SPST-NO-DM	SPST-NO-DM	Contact Configuration
100A	100A	125A	150A	200A	200A	250A	300A	Rated Current
120VDC	48VDC	120VDC	120VDC	120VDC	48VDC	60VDC	60VDC	Max. Switching Voltage
12V, 24V, 30V, 36V, 48V, 60V, 72V, 80V, 96V, 120V	12V, 24V, 48V, 60V	12V, 24V, 30V, 36V, 48V, 60V, 72V, 80V, 96V, 120V	12V, 24V, 30V, 36V, 48V, 60V, 72V, 80V, 96V, 120V	12V, 24V, 30V, 36V, 48V, 60V, 72V, 80V, 96V, 120V	12V, 24V, 48V, 60V	12V, 24V, 30V, 36V, 48V, 60V, 72V, 80V, 96V, 120V	12V, 24V, 48V, 60V	Coil Voltages (DC)
AgCu	AgCuO	AgCu	AgCu	AgCu	AgCuO	AgCu	AgCu	Contact Material
-25 to 85°C	-25 to 65°C	-25 to 85°C	-25 to 85°C	-25 to 85°C	-40 to 65°C	-25 to 85°C	-25 to 85°C	Operating Temperature Range
0.201kgs	0280kgs	≥ 0.380kgs	0.380kgs	>0.420kgs	0.495kgs	0.480kgs	0.800kgs	Approx. weight (varies with options)
Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Auxiliary Switch (Optional)
	Ø				V			Built-in Twin Coil Economizer
Ø		v	V	Ø		Ø	V	Latching type available
(optional)		(optional)	(optional)	(optional)				
UK CE	υΚ C €	υΚ C €	υΚ C €	UK C€	CA C€	υΚ C €	υΚ C €	Approvals



Automotive LVDC Contactors - up to 120VDC

	DSC30M	DSC40	DSC40D	DSC50	DSC60	DSC60D	DSC80	DSC80D
		\$ & = 6					0 m	
Contact Configuration	SPST-NO-DM	SPST-NO-DM, SPDT, DPDT, DPST-NO	SPST-NC-DB	SPST-NO-DM	SPST-NO-DM	SPST-NC-DB	SPST-NO-DM	SPST-NC-DB
Rated Current	300A	400A	400A	500A	600A	600A	800A	800A
Max. Switching Voltage	120VDC	120VDC	48VDC	60VDC	60VDC	48VDC	60VDC	48VDC
Coil Voltages (DC)	12V, 24V, 48V, 60V	12V, 24V, 30V, 36V, 48V, 60V, 72V, 80V, 96V, 120V	12V, 24V, 48V, 60V					
Contact Material	AgCu	AgCu	AgCuO	AgCu	AgCu	AgCuO	AgCu	AgCuO
Operating Temperature Range	-25 to 85°C	-25 to 85°C	-40 to 65°C	-25 to 85°C	-25 to 85°C	-40 to 65°C	-25 to 85°C	-40 to 65°C
Approx. weight (varies with options)	0.800kgs	> 0.820kgs	1.020kgs	0.970kgs	1.000kg	1.500kgs	2.000kgs	1.500kgs
Auxiliary Switch (Optional)	Ø	Ø	Ø	Ø	V	Ø	V	V
Built-in Twin Coil Economizer			Ø			Ø		V
Latching type available	Ø	Ø		Ø	Ø		Ø	
Magnetic arc quench	Ø	(optional)						
Approvals	CA CE	CA CE	CA CE	CA CE	CA CE	UK CE	UK CE	CA CE

Automotive LVDC Contactors - up to 60VDC & 2000A

DSC100	DSC100D	DSC120	DSC150	DSC180	DSC200			
						7		
SPST-NO-DM	SPST-NC-DB	SPST-NO-DM	SPST-NO-DM	SPST-NO-DM	SPST-NO-DM			Contact Configuration
1000A	1000A	1200A	1500A	1800A	2000			Rated Current
60VDC	48VDC	60VDC	60VDC	60VDC	60VDC			Max. Switching Voltage
12V, 24V, 48V, 60V			Coil Voltages (DC)					
AgCu	AgCuO	AgCu	AgCu	AgCu	AgCu			Contact Material
-25 to 85°C	-40 to 65°C	-25 to 85°C	-25 to 85°C	-25 to 85°C	-25 to 85°C			Operating Temperature Range
3.020kgs	3.020kgs	3.020kgs	4.370kgs	4.37kgs	4.37kgs			Approx. weight (varies with options)
Ø	Ø	V		V	Ø		3	Auxiliary Switch (Optional)
	Ø							Built-in Twin Coil Economizer
Ø		V	V	Ø	Ø			Latching type available
								Magnetic arc quench
UK CE	CH CE	CA C€	CA C€	UK C€	ŮK C€			Approvals



	DG5N	DG6D	DG6L	DM84	DG33	DM05	DG31	DG31H
		CHARGOSE CONTROL OF THE CONTROL OF T						
Contact Configuration	SPST-NO	SPST-NO	SPST-NO, SPDT	DPST-NO, DPDT	SPST-NO	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT
Rated Current (continuous))	5A/250VAC, 5A/28VDC	5A/250VAC, 5A/30VDC	8A/250VAC, 5A/30VDC	8A/250VAC, 8A/24VDC	10A/250VAC	10A/250VAC, 10A/30VDC	12A/120VAC, 10A/250VAC, 10A/28VDC	15A/125VAC, 10A/250VAC
Max. Switching Voltage (current dependent)	250VAC, 28VDC	250VAC, 30VDC	440VAC, 125VDC	400VAC	250VAC, 28VDC	277VAC, 30VDC	250VAC, 28VDC	250VAC, 28VDC
Coil Voltages	3, 5, 6, 9, 12, 24VDC	5, 12, 24VDC	5, 6, 12, 18, 24, 48, 60VDC	3, 5, 6, 9, 12, 18, 24, 36, 48, 60, 110VDC. 12, 24, 48, 60, 110, 115, 120, 220, 230, 240VAC	3, 5, 6, 9, 12, 24, 48VDC	3, 5, 6, 9, 12, 24VDC	3, 5, 6, 9, 12, 24, 48VDC	3, 5, 6, 9, 12, 24, 48VDC
Contact Material	AgSnO ₂	AgSnO ₂	AgNi90/10, AgSnO ₂	AgNi90/10, AgNi90/10 +5um Au, AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂
Operating Temperature Range	-40 to +85°C	-25 to +70°C	-40 to +85°C	AC: -40 to +70°C DC: -40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +105°C
Terminal outline	© 0 ° 0	0 0 0			o o o	0 0 0 0 0 0 0 0 0	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °
Mounting	РСВ	РСВ	РСВ	PCB	PCB	РСВ	РСВ	РСВ
Dimensions (approx.) L x W x H mm	20.5 x 7 x 15	17.5 x 6.5 x 12.5	28.5 x 10 x 12.3	29 x 12.7 x 15.7	18.4 x 15.2 x 10.2	20 x 10 x 15.2	19.5 x 15.5 x 16	19 x 15.4 x 15
Magnet arc quench					022			
Approvals	c AL us	c Al us	c FL °us	c FN us		C SAU US	C S US TÜVRheinland	c Al us

DM87	DX84	DX87	DG05	DG39	DG70	DM44	DM85	
	\$2.905.2 \$2.905.2 \$2.905.205.20	1 2 minutes			CHEANOOL CONSTRUCTION OF THE PROPERTY OF THE P	DM44-3021-35-1012 ptysoc 75/428946 ptysoc 75/428946 ptysoc 75/428946 ptysoc 75/428946 ptysoc 75/428946		
SPST-NO, SPDT	DPST-NO, DPDT	SPST-NO, SPDT	SPST-NO	SPST-NO	SPST	SPST-NO, SPDT	SPST-NO, SPDT	Contact Configuration
12A/250VAC, 12A/24VDC	12A/250VDC, 8A/30VDC	10A/250VAC, 12A/250VAC, 10A/30VDC	16A/250VAC, 16A/30VDC	16A/250VAC	16A/250VAC	16A/277VAC, 16A/30VDC	16A/250VAC, 16A/24VDC	Rated Current (continuous))
400VAC	440VAC, 125VDC	440VAC, 125VDC	250VAC, 30VDC	250VAC	250VAC, 20VDC	277VAC, 30VDC	440VAC	Max. Switching Voltage (current dependent)
3, 5, 6, 9, 12, 18, 24, 36, 48, 60, 110VDC. 12, 24, 48, 60, 110, 115, 120, 220, 230, 240VAC	3, 5, 6, 9, 12, 18, 24, 36, 48, 60, 110VDC	3, 5, 6, 9, 12, 18, 24, 36, 48, 60, 110VDC	3, 5, 6, 9, 12, 18, 24VDC	3, 5, 6, 9, 12, 18, 24, 48VDC	9, 12, 24, 48VDC (latching)	3, 5, 6, 9, 12, 18, 24, 48VDC	3, 5, 6, 9, 12, 18, 24, 36, 48, 60, 110VDC. 12, 24, 48, 60, 110, 115, 120, 220, 230, 240VAC	Coil Voltages
AgNi90/10, AgNi90/10 +5um Au, AgSnO ₂	AgNi90/10, AgSnO ₂	AgNi90/10, AgSnO ₂	AgSnO ₂ AgSnO ₂ In ₂ O ₃	AgSnO₂	AgSnO₂	AgSnO ₂	AgNi90/10, AgSnO ₂	Contact Material
AC: -40 to +70°C DC: -40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +70°C	-30 to +105°C	AC: -40 to +70°C DC: -40 to +85°C	Operating Temperature Range
	0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	© 0 0 0	© 0 0 0	0 0 0	0 000	0 0 0	Terminal outline
РСВ	РСВ	РСВ	РСВ	РСВ	РСВ	РСВ	РСВ	Mounting
29 x 12.7 x 15.7	29 x 12.7 x 15.7	29 x 12.7 x 15.7	18.3 x 10.2 x 15.2	23 x 16.2 x 10.2	29.4 x 13.6 x 22.8	29.2 x 12.8 x 20.6	29 x 12.7 x 15.7	Dimensions (approx.) L x W x H mm
			//A.		32			Magnet arc quench
c Al us	C TUVRheinland	C SAU US	c 91 0 us	c 71 2 us		c PL us	c SN us	Approvals



	DX85	DG71	DM85H	DM85V	DE20	DE35	DG34	DG38
	and the second	MARKAGES AND STREET OF THE STREET OF T		Mary Mary	JURAKOOL DED. 8021-35-5812 DED. 805/DC 18002	□URA(COOL BESIG-002-94-104 600.7779/dc - NA sono II + mas		
Contact Configuration	SPST-NO, SPDT	SPST	SPST-NO	SPST-NO	SPST-NO-DM	DPST-NO-DM	SPST-NO, SPDT	SPST-NO, SPDT
Rated Current (continuous))	16A/250VAC, 16A/30VDC	20A/250VAC	20A/250VAC	20A/250VAC	25A/450VDC	2 x 40A, 1 x 75A (277VAC)	40A/250VAC	40A/250VAC
Max. Switching Voltage (current dependent)	440VAC, 125VDC	277VAC, 20VDC	440VAC, 125VDC	440VAC, 125VDC	450VDC	277VAC	250VAC, 110VDC	250VAC, 110VDC
Coil Voltages	5, 6, 9, 12, 18, 24, 48, 60, 110VDC	5, 9, 12, 24VDC (latching)	5, 6, 9, 10, 12, 18, 24, 48VDC	5, 6, 9, 10, 12, 18, 24, 48VDC	12, 24VDC	12, 24VDC	3, 5, 6, 9, 12, 18, 24, 48, 110VDC. 12, 24, 110, 120, 220VAC.	3, 5, 6, 9, 12, 18, 24, 48, 110VDC. 12, 24, 110, 120, 220VAC.
Contact Material	AgNi90/10, AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂ AgSnOInO	AgSnO ₂
Operating Temperature Range	-40 to +85°C	-40 to +70°C	-40 to +105°C	-40 to +105°C	-40 to +85°C	-40 to +85°C	-40 to +125°C	-40 to +125°C
Terminal outline		0 0 0 0 0 0	0 0	0 0 0			0 0	* ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °
Mounting	PCB	PCB	PCB	PCB	PCB, Chassis	PCB	PCB, Chassis	PCB
Dimensions (approx.) L x W x H mm	29 x 12.7 x 15.7	29 x 12.7 x 15.7	44.5 x 12.7 x 15.7	40.5 x 12.7 x 15.7	41.2 x 30.2 x 31.38	49 x 26.5 x 30	32 x 27.5 x 19.5	32.5 x 27.5 x 29
Magnet arc quench					V			
Approvals	C TÜVRheinland	c 71 0s	c AN us UK C€	c₩ C €		c 91 2°us	CHUS CA	CNUS CA

DG38B	DG38L	DX71F	DX71E	DX71D		
	I e	SURAKOOL SUR	JURAKOOL GYDDOOLSALA GARAGE TO ALLO GARAGE TO ALLO	ORAKOOI GTOOPISALO		
SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO + SPST-NO (aux)	SPST-NO + SPST-NO (aux)	SPST-NO + SPST-NO (aux)		Contact Configuration
40A/250VAC	45A/24VDC, 20A/80VDC	80A/24VDC	110A/60VDC	125A/80VDC		Rated Current (continuous))
250VAC, 110VDC	277VAC, 80VDC	24VDC	60VDC	80VDC		Max. Switching Voltage (current dependent)
3, 5, 6, 9, 12, 18, 24, 48, 110VDC. 12, 24, 110, 120, 220VAC.	5, 6, 9, 12, 24, 48VDC	12, 24, 48, 60VDC (latching)	12, 24, 48, 60VDC (latching)	12, 24, 48, 60VDC (latching)		Coil Voltages
AgSnO ₂	AgSnOlnO	AgSnO₂	AgSnO₂	AgSnO₂		Contact Material
-40 to +125°C	-55 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C		Operating Temperature Range
0 * 0 0 0 0 0	0 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Terminal outline
PCB	РСВ	РСВ	РСВ	РСВ		Mounting
32.5 x 27.5 x 21	322 x 27.5 x 28	39.2 x 22 x 27.5	39.2 x 22 x 27.5	39.2 x 22 x 27.5		Dimensions (approx.) L x W x H mm
1000	Ø		Ø			Magnet arc quench
c₩ C€	c A7 ,⊓s					Approvals



Industrial Relays

	DB30	DE35	DG34	DG36	DI8	DLR	DT	DX15A
	Command of the Comman	= URANOOL REPORT HORSE TO THE MARKET HORSE TO THE MARKET HORSE						
Contact Configuration	DPST-NO, DPST-NC, DPDT, 3PST-NO	DPST-NO-DM	SPST-NO, SPDT	DPST-NO, DPDT	SPDT, DPDT	SPST-NO, DPST-NO	SPST-NO, SPST-NC, SPST- NO+SPST-NC, DPST-NO, DPST-NC, DPDT	DPDT, 3PDT
Rated Current (continuous))	40A / 50A	40A	40A	30A	8A, 10A, 12A, 16A	20A, 25A, 30A	10A	10A
Max. Switching Voltage (current dependent)	440VAC, 28VDC	277VAC	250VAC, 110VDC	277VAC, 30VDC	440VAC, 125VDC	250VAC, 30VDC	5000VAC	277VAC, 30VDC
Coil Voltages	12VDC, 24VDC, 48VDC, 110VDC, 12VAC, 24VAC, 48VAC 110VAC, 230VAC	12VDC, 24VDC	3 to 110VDC, 12 to 220VAC	5 to 110VDC, 24 to 277VAC	12VDC, 24VDC, 24VAC, 110VAC 230VAC	6 to 110VDC, 12 to 230VAC	6 to 220VDC, 6 to 400VAC	6VDC, 12VDC, 24VDC, 110VDC, 12VAC, 24VAC, 110VAC, 220VAC
Contact Material	AgSnO ₂	AgSnO ₂	AgSnO _{2.} AgSnOInO	AgSnO ₂	AgNi90/10	AgSnO ₂	AgSnO ₂	AgNi90/10
Operating Temperature Range (consult factory for >85°C)	-55 to 70°C	-40 to 85°C	-40 to 125°C	-40 to 85°C, -40 to 65°C	-40 to 85°C, -40 to 70°C	-40 to 85°C	-40 to 55°C	-40 to 70°C
Terminal arrangement	Fast-on Blades	PCB Solder pins	Fast-on Blades, PCB solder pins	Fast-on Blades, PCB solder pins	Screw terminals	Screw terminals, Fast-on Blades, PCB solder pins	Fast-on Blades	Terminal pins for socket mounting
Mounting	DIN Rail, PCB & Chassis sockets	PCB	Chassis or PCB	Chassis or PCB	DIN Rail	Chassis, DIN Rail or PCB	Chassis	DIN Rail, PCB & Chassis sockets
Test Lever or Button						(optional)		Ø
LED						Ø		Ø
Durakool Socket	Ø				Ø	Ø		V
Approvals	c 'Al os		CSUS CA	118	c 'Al aus		CACE	ΩĶĆ€

Industrial Relays

DX2	DX3	DX4	DXN	DY	DYN		
DPDT	3PDT	4PDT	4PDT	SPST-NO, SPDT, DPST- NO, DPDT, 3PDT, 4PDT	DPDT		Contact Configuration
10A	7A	5A	5A	12A, 16A	10A		Rated Current
277VAC, 30VDC	277VAC, 30VDC	277VAC, 30VDC	277VAC, 30VDC	277VAC, 28VDC	277VAC, 30VDC		Max. Switching Voltage (current dependent)
6 to 110VDC, 6 to 240VAC	12VDC, 24VDC, 110VDC, 220VDC, 12VAC, 24VAC, 110VAC, 220VAC	6 to 110VDC, 6 to 240VAC, 24VAC or DC		Coil Voltages			
AgNi90/10	AgNi90/10	AgNi90/10	AgNi90/10, AgNi90/10+Au	AgSnO ₂ , AgNi90/10	AgNi90/10, AgNi90/10+Au		Contact Material
-40 to 70°C	-40 to 70°C	-40 to 70°C	-40 to 70°C	-40 to 70°C	-40 to 70°C	- L	Operating Temperature Range (consult factory for >70°C)
Terminal blades for socket mounting	Terminal blades for socket mounting	Terminal blades for socket mounting	Terminal blades for socket mounting, PCB solder pins	Fast-on Blades, Terminal Blades for sockets, PCB solder pins	Terminal blades for socket mounting, PCB solder pins		Terminal arrangement
DIN Rail, PCB & Chassis sockets	Chassis, DIN Rail sockets or PCB	DIN Rail, PCB & Chassis sockets		Mounting			
V	Ø	V	V		Ø		Test Lever or Button
Ø		V	V	Ø	Ø		LED
Ø	Ø	Ø	Ø	Ø	Ø		Durakool Socket
c AL us	c FU °us	c 71 2 us	c FL °us	c 71 1 us	c Fl us	9	Approvals



Latching (bi-stable) Relays

	DG70	DG71	DG73	DG74	DG75	DG76C	DG77A	DG77B
	JURAKOOL QUE SERVICE LA TODO	Marketon Arrange Marketon Marketon Mark				DURANCOL BRIGGER ST. SET.		
Contact Configuration	SPST	SPST	SPST	SPST	SPST	SPST	SPST	SPST
Rated Current (continuous))	16A/250VAC	20A/250VAC	80A/250VAC	100A/250VAC	40A/250VAC	90A/250VAC	60A/250VAC	80A/250VAC
Max. Switching Voltage (current dependent)	250VAC, 20VDC	277VAC, 20VDC	250VAC, 20VDC	250VAC, 20VDC	250VAC, 20VDC	250VAC	250VAC, 20VDC	250VAC, 20VDC
Coil Voltages	9, 12, 24, 48VDC	5, 9, 12, 24VDC	9, 12, 24, 48VDC	9, 12, 24, 48VDC	9, 12, 24, 48VDC	5, 6, 9, 12, 24, 48VDC	9, 12, 24, 48VDC	9, 12, 24, 48VDC
Contact Material	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂
Operating Temperature Range	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +70°C	-40 to +85°C	-40 to +70°C	-40 to +70°C
Terminal outline	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Custom	Custom	Custom	0 0 0 0 0	Custom	Custom
Mounting	РСВ	РСВ	PCB, Busbar or Chassis	PCB, Busbar or Chassis	РСВ	РСВ	РСВ	РСВ
Dimensions (approx.) L x W x H mm	29.4 x 13.6 x 22.8	29 x 12.7 x 15.7	38 x 30.9 x 16.5	40 x 30 x 22	39 x 15 x 29	38 x 16.5 x 30	38 x 17 x 33	38 x 17 x 33
Magnet arc quench					25			
Approvals		c SN °us						

Latching (bi-stable) Relays

DG78	DG79	DG79B	DX71F	DX71E	DX71D	DTC3	DTC4	
			SURAKOOL SURAKOOL SURSUS SEELUS SURSUS SEELUS SURSUS SURSUS SEELUS SURSUS SEELUS SURSUS SEELUS SURSUS SEELUS SURSUS SURSUS SEE SURSUS SEELUS SURSUS SEE SURSUS SEE SURSUS SURSUS SEE SURSUS SEE	SURAKOOL SURAKOO S	SURAKOOL SURAKOO S	N. T. T. T.	1,111	
SPST	SPST	SPST	SPST-NO + SPST-NO (aux)	SPST-NO + SPST-NO (aux)	SPST-NO + SPST-NO (aux)	DPDT	DPDT	Contact Configuration
120A	100A	120A	80A/24VDC	110A/60VDC	125A/80VDC	1A/125VAC, 2A/30VDC	0.5A/125VAC, 1A/30VDC	Rated Current (continuous))
250VAC, 30VDC	250VAC, 20VDC	250VAC, 20VDC	24VDC	60VDC	80VDC	250VAC, 220VDC (125VA/90W)	250VAC, 220VDC (62.5VA/30W)	Max. Switching Voltage (current dependent)
9V, 12V, 24V, 48V	5V, 9V, 12V, 24V, 48V	5V, 9V, 12V, 24V, 48V	12, 24, 48, 60VDC (latching)	12, 24, 48, 60VDC (latching)	12, 24, 48, 60VDC (latching)	3, 5, 6, 9, 12, 24VDC	3, 5, 6, 9, 12, 24VDC	Coil Voltages
AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂	AgNi0.15+Au, AgPd/AgPd+Au	AgNi0.15+Au	Contact Material
-40 to +70°C	-40 to 85°C	-40 to 85°C	40 to +85°C	40 to +85°C	40 to +85°C	-40 to +85°C	-40 to +70°C	Operating Temperature Range
Custom	Custom	Custom						Terminal outline
PCB or Chassis	Custom, PCB	Custom, PCB	PCB	РСВ	РСВ	РСВ	РСВ	Mounting
76 x 43 x 25	52 (max) x 43 x 22	52 (max) x 43 x 22	39.2 x 22 x 27.5	39.2 x 22 x 27.5	39.2 x 22 x 27.5	20.2 x 10.2 x 10.6	14 x 9 x 5	Dimensions (approx.) L x W x H mm
				V	V			Magnet arc quench
							c PL us	Approvals



Signal Relays

	DTC0	DTC0B	DTC1	DTC2	DTC3	DTC3 (latching)	DTC4	
			and the second	- The American		Transfer and	HILL	
Contact Configuration	SPDT	SPDT	SPDT	DPDT	DPDT	DPDT	DPDT	
Rated Current (continuous))	5A/120VAC, 5A/24VDC	5A/120VAC, 5A/24VDC	0.5A/125VAC, 1A/30VDC	1A/120VAC, 2A/24VDC	0.5A/120VAC, 2A/30VDC	1A/125VAC, 2A/30VDC	0.5A/125VAC, 1A/30VDC	
Max. Switching Voltage (current dependent)	120VAC, 24VDC	120VAC, 24VDC	125VAC, 60VDC (62.5VA/30W)	120VAC, 30VDC (120VA/48W)	250VAC, 220VDC (125VA/60W)	250VAC, 220VDC (125VA/90W)	250VAC, 220VDC (62.5VA/30W)	
Coil Voltages	3, 5, 6, 9, 12, 24VDC	3, 5, 6, 9, 12, 24VDC	1.5, 3, 5, 6, 9, 12, 24VDC	3, 5, 6, 9, 12, 24, 48VDC	3, 5, 6, 9, 12, 24, 48VDC	3, 5, 6, 9, 12, 24VDC	3, 5, 6, 9, 12, 24VDC	
Contact Material	AgNi0.15, AgNi0.15+Au	AgNi0.15, AgNi0.15+Au	AgNi0.15+Au	AgNi0.15+Au	AgNi0.15+Au	AgNi0.15+Au, AgPd/AgPd+Au	AgNi0.15+Au	
Operating Temperature Range	-25 to +55°C	-25 to +55°C	-30 to +70°C	-30 to +80°C	-30 to +90°C	-40 to +85°C	-40 to +70°C	
Terminal outline								
Mounting	PCB	PCB	PCB	PCB	PCB	PCB	PCB	
Dimensions (approx.) L x W x H mm	16 x 11 x 11.5	16 x 11 x 11.5	12.5 x 7.5 x 10	21 x 10 x 11.6	20.2 x 10.2 x 10.6	20.2 x 10.2 x 10.6	14 x 9 x 5	
Approvals	c 911 ° us	c '91 0°us	c 91 0 us		105		c FL ous	

Solid-state Relays

	SRA1	SRA2	SRA3	SSG1C	SSG1C		
Load type	SPST-NO	2 x SPST-NO	3PST-NO	SPST-NO	SPST-NO		
Rated Current (continuous)	10, 20, 25, 30, 40, 60, 80A	10, 15, 20, 25, 30, 40A	10, 20, 25, 30, 40, 60, 80A	60, 80, 100, 120, 150A	200, 300, 350A		
Load Switching Voltage	24~240VAC, 40~480VAC (Zero X-Over)	24~240VAC, 40~480VAC (Zero X-Over)	24~240VAC, 40~480VAC (Zero X-Over)	60~1200VAC (Zero X-Over)	60~1200VAC (Zero X-Over)		
Maximum Peak Voltage	900V	900V	900V	1600V	1600V		
Control Voltage	4~32VDC, 90~250VAC	4~32VDC	4~32VDC, 90~250VAC	3~14VDC, 3~32VDC	3~14VDC, 3~32VDC		
Operating Temperature Range	-30 to +80°C	-30 to +80°C	-30 to +80°C	-30 to +80°C	-30 to +80°C		
Terminal outline	O O O O O O O		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0		
Mounting	Chassis	Chassis	Chassis	Chassis	Chassis		
Dimensions (approx.) L x W x H mm	60 x 45.1 x 28	57 x 44 x 30.3	106 x 75 x 38	94 x 25 x 36.2	94 x 34 x 43		
Approvals	c₩ C €	c∰ C€	c AL us UK C €	똢(€	₽₩C€		



Solid-State Relays & Contactors

	SDA1-10	SDA1-15	SDA1-20	SDA1-25	SDA1-30	SDA1-40	SDA1-60	SDA1-80
Load type	SPST-NO	SPST-NO	SPST-NO	SPST-NO SPST-NO		SPST-NO	SPST-NO	SPST-NO
Rated Current (continuous)	10A	15A	20A	25A	30A	40A	60A	80A
Load Switching Voltage	40~480VAC (Zero X-Over)	40~480VAC (Zero X-Over)	40~480VAC (Zero X-Over)	40~480VAC (Zero X-Over)		40~480VAC (Zero X-Over)	40~480VAC (Zero X-Over)	40~480VAC (Zero X-Over)
Maximum Peak Voltage	900V	900V	900V	900V 900V		900V	900V	900V
Control Voltage	4~32VDC	4~32VDC	4~32VDC, 90~250VAC	4~32VDC, 90~250VAC	4~32VDC, 90~250VAC	4~32VDC, 90~250VAC	4~32VDC, 90~250VAC	4~32VDC, 90~250VAC
Terminal outline	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0
Mounting	DIN Rail or Chassis	DIN Rail or Chassis	DIN Rail or Chassis	DIN Rail or Chassisil	DIN Rail or Chassis	DIN Rail or Chassis	DIN Rail or Chassis	DIN Rail or Chassis
Dimensions (approx.) L x W x H mm	100 x 24 107	100 x 24 x 107	100 x 48 x 107	100 x 48 x 107	100 x 48 x 107	100 x 80 x 107	100 x 110 x 127	100 x 110 x 127
Approvals	₽ N us UK C €	c FN us UK C €	c A Lus UK C €	c¥C€	c FN us UK C €	c AN us UK C €	₽ N us UK C €	c A Vus UK C €

Solid-State Relays & Contactors

SDB1-60	SDB1-80	SDA3-10	SDA3-15	SDA3-20	SDA3-25	SDA3-30	SDA3-40	
SPST-NO	SPST-NO	3PST-NO	3PST-NO	3PST-NO	3PST-NO	3PST-NO	3PST-NO	Load type
60A	80A	10A	15A	20A	25A	30A	40A	Rated Current (continuous)
60~660VAC (Zero X-over)	60~660VAC (Zero X-over)	40~480VAC (Zero X-over)	Load Switching Voltage					
900V	Maximum Peak Voltage							
4~32VDC, 90~250VAC	Control Voltage							
0 0	0 0	0000	0000	0000	0000	0000	0000	Terminal outline
DIN Rail or Chassis	Mounting							
100 x 110 x 127	100 x 110 x 127	100 x 110 x 80	100 x 110 x 80	100 x 110 x 130	100 x 110 x 130	100 x 110 x 130	125 x 110 x 130	Dimensions (approx.) L x W x H mm
c FN °us UK C €	c Al us UK C €	¢ AN °us UK C €	c AN us UK C E	c FN °us UK C €	c AL us UK C €	c AL us UK C E	c A 1∪s UK C €	Approvals



Definite Purpose Contactors

	30C20	30C25	30C30	30C40	30C50	30C60	30C75	30C90
Contact Configuration	SPST-NO-DM, DPST-NO-DM, 3PST-NO-DM, 4PST-NO-DM	SPST-NO-DM, DPST-NO-DM, 3PST-NO-DM, 4PST-NO-DM	SPST-NO-DM, DPST-NO-DM, 3PST-NO-DM, 4PST-NO-DM	SPST-NO-DM, DPST-NO-DM, 3PST-NO-DM, 4PST-NO-DM	DPST-NO-DM, 3PST-NO-DM	DPST-NO-DM, 3PST-NO-DM	DPST-NO-DM, 3PST-NO-DM	DPST-NO-DM, 3PST-NO-DM
FLA Rating	20A	25A	30A	40A	50A	60A	75A	90A
LRA Rating (max.) (voltage dependent)	120A	150A	180A	240A	300A	360A	450A	540A
Max. Switching Voltage (AC) (current dependent)	600V	600V	600V	600V	600V	600V	600V	600V
Coil Voltages (AC)	24V, 120V, 230V, 277V, 480VAC	24V, 120V, 230V, 277V, 480VAC	24V, 120V, 230V, 277V, 480VAC	24V, 120V, 230V, 277V, 480VAC	24V, 120V, 230V, 277V, 480VAC	24V, 120V, 230V, 277V, 480VAC	24V, 120V, 230V, 277V, 480VAC	24V, 120V, 230V, 277V, 480VAC
Contact Material	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOlnO
Operating Temperature Range	-40 to +65°C	-40 to +65°C	-40 to +65°C	-40 to +65°C	-40 to +65°C	-40 to +65°C	-40 to +65°C	-40 to +65°C
Coil Terminals	0.25" QC's + 6-32 screw	0.25" QC's + 6-32 screw	0.25" QC's + 6-32 screw	0.25" QC's + 6-32 screw	0.25" QC's + 6-32 screw			
Power Terminals	10-32 screw + 0.25" QC's	10-32 screw or 14-4 box lug + 0.25" QC's	10-32 screw or 14-4 box lug + 0.25" QC's	10-32 screw or 14-4 box lug + 0.25" QC's	14-2 box lug + 0.25" QC's	14-2 box lug + 0.25" QC's	14-1/0 box lug + 0.25" QC's	14-1/0 box lug + 0.25" QC's
Mounting	Chassis	Chassis	Chassis	Chassis	Chassis	Chassis	Chassis	Chassis
Dimensions (approx.) L x W x H (inches)	1P: 3.3 x 2.1 x 2.54" 2P: 3.3 x 2.1 x 2.6" 3P: 3.75 x 2.4 x 3" 4P: 3.8 x 2.75 x 3"	1P: 3.3 x 2.1 x 2.54" 2P: 3.3 x 2.1 x 2.6" 3P: 3.75 x 2.4 x 3" 4P: 3.8 x 2.75 x 3"	1P: 3.3 x 2.1 x 2.54" 2P: 3.3 x 2.1 x 2.6" 3P: 3.75 x 2.4 x 3" 4P: 3.8 x 2.75 x 3"	1P: 3.3 x 2.1 x 2.54" 2P: 3.3 x 2.1 x 2.6" 3P: 3.75 x 2.4 x 3" 4P: 3.8 x 2.75 x 3"	4 x 2.8 x 3.6"	4 x 2.8 x 3.6"	5 x 3.75 x 4"	5 x 3.75 x 4"
Approvals	c 911 ° us	c FL °us	c FL °us	c FL °us	c AL °us	c PL °us	c 911 ° us	c FL °us



