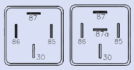
DURAKOOL®

Automotive Plug-in Relays

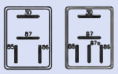
	DC20	DE20	DG55	DG55M	DG56A	DG56C	DG57BM	DG57CM
								
Contact Configuration	SPST-NO-DM	SPST-NO-DM	SPST-NO, SPDT	SPST-NO	SPST-NO, SPDT, SPST-NC, SPST-DM	SPST-NO	SPST-NO, SPDT	SPST-NO
Rated Current	20A (25A PCB)	20A (25A PCB)	60A	40A	40A	70A	60A	80A
Max. Switching Voltage (current dependent)	450VDC	450VDC	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	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$
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	☑	☑		☑			☑	☑
Approvals	c UL us							

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Automotive Plug-in Relays

DG82	DG85A	DG85B	DG85BM	DG85C	DG85CM	DG85D	DG85F	
								
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	$AgSnO^2$	AgNi0.15, AgNi90/10, AgSnOInO	$AgSnO^2$	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
			☑		☑			Magnet arc quench
			Replaced by DG57BM		Replaced by DG57CM			Approvals

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Automotive Plug-in Relays

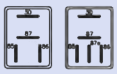
	DG85G	DG86N	DG90	DG91/ DG91N	DG92	DG82 JMPR	DG85A JMPR	DG85D JMPR
								
Contact Configuration	SPST-NO, SPDT	SPST-NO	SPST-NO	SPST-NO, SPDT	SPST-NO, SPDT	Link	Link	Link
Rated Current	80A	200A	20A	35A	40A	40A	40A	100A
Max. Switching Voltage (current dependent)	30VDC	40VDC	16VDC	75VDC	75VDC	n/a	n/a	n/a
Coil Voltages (DC)	6V, 12V, 24V	12V, 24V	12V	6V, 12V, 24V	6V, 12V, 24V	n/a	n/a	n/a
Contact Material	AgSnOInO	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	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 	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								
Approvals								

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Automotive Special Function Plug-in Relays

DG43A	DG43E	DG43F	DG44	DG46	DG56T	DG82T		
								
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)
$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$	$AgSnO^2$		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

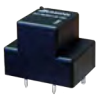
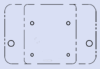
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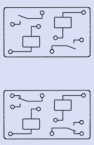
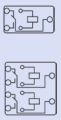
	DC20	DE20	DG08	DG17	DG17M	DG18	DG19	DG20
								
Contact Configuration	SPST-NO-DM	SPST-NO-DM	2 x SPDT	SPST-NO, SPST-NO-DM, SPDT, SPDT-DB-DM	SPST-NO, SPST-NC	SPST-NO, SPST-NC, SPDT	SPST-NO, SPST-NC, SPDT	SPST-NO, SPDT
Rated Current (continuous))	25A	25A	35A (10mins)	15A, 2 x 10A	15A	20A	45A	30A
Max. 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, AgSnOInO, $AgSnO_2$	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 							
Mounting	PCB, Plug-in or Chassis	PCB, Plug-in or Chassis	PCB	PCB	PCB	PCB	PCB	PCB
Magnet arc quench	☑	☑			☑			
Approvals	c UL us							

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Automotive PCB Relays

DG27	DG31A	DG55M	DG56A	DG56C	DG57BM	DG57CM	DG60	
								
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	$AgSnO_2$	$AgSnO_2$	$AgSnO_2$	$AgSnO_2$	$AgSnO_2$	$AgSnO_2$	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)
		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	PCB	Mounting
		☑			☑	☑		Magnet arc quench
								Approvals

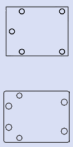
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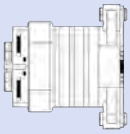
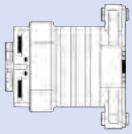
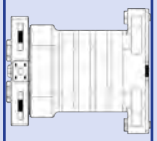
	DG81	DG81B	DG81C	DG82	DG85A	DG85B	DG85C	DG85D
								
Contact Configuration	SPST-NO, SPST-NO-DM, SPDT	SPST-NO-DM	SPST-NO-DM	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO, SPDT	SPST-NO
Rated Current	25A, 2 x 10A	2 x 15A	2 x 30A	40A	60A	60A	80A	100A
Max. Switching Voltage (current dependent)	16VDC	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, AgSnOInO	AgNi0.15, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgNi0.15, AgNi90/10, AgSnOInO	AgSnOInO
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				micro-ISO 	mini-ISO 	mini-ISO 	macro-ISO 	macro-ISO 
Mounting	PCB	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								

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Automotive PCB Relays & HVDC Contactors

DG85F	DG85G	DG88A			DEVR 03 PCB	DEVR 05 PCB	DEVR 10 PCB	
								
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 	macro-ISO 	mini-ISO 						Terminal outline
PCB or Plug-in	PCB or Plug-in	PCB or Plug-in			PCB	PCB	PCB	Mounting
					☑	☑	☑	Magnet arc quench
						c UL us	c UL us	Approvals

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