

DURAKOOL

Electromechanical
relays
& contactors



miniature relays
industrial relays
automotive relays
interface relays
definite purpose contactors

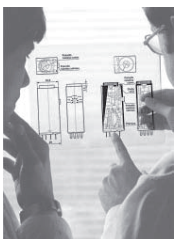
www.durakoolrelays.com



Established in 1935 to manufacture
switching devices for power generation

Durakool is a renowned manufacturer of switching and sensing components

used in industrial and power automation, power electronics, industrial
electronics, automotive and telecommunications applications.

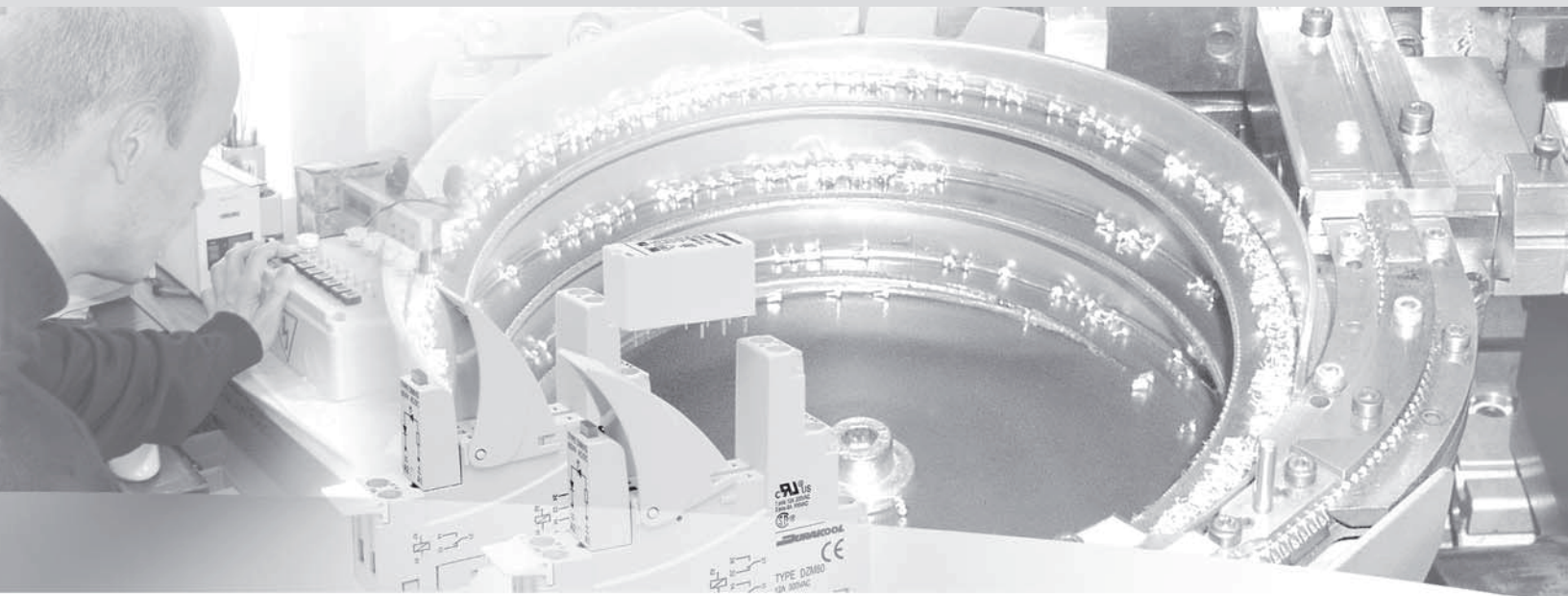


American Electronic Components
and Durakool provide their
partners technical consultation
based upon **extensive application
knowledge and experience.**

After many years of development
and innovation, we understand
that **quality is paramount** and
we pursue a policy
of continuous improvement.

For in depth information and
data sheets, visit our web
site at **www.durakoolrelays.com**
or **www.aecensors.com**

Due to our very wide
product range, **please
consult us or your distributor
for non-standard items.**



Controlling electricity for over 75 years!

American Electronic Components and Durakool

offer an extensive range of:

ELECTROMECHANICAL RELAYS AND CONTACTORS

RELAY SOCKETS

MERCURY RELAYS AND CONTACTORS

TILT AND TIP OVER SWITCHES

FLOAT SWITCHES

LIQUID LEVEL SENSORS

PROXIMITY SENSORS

G-FORCE SENSORS AND SWITCHES

HERMETIC SEALS, FEED THRU'S AND SIGHT GLASSES



ERMEC, S.L. BARCELONA
C/ Francesc Teixidó, 22
E-08918 Badalona
(Spain)

Tel.: (+34) 902 450 160
Fax: (+34) 902 433 088
info@ermec.com
www.ermec.com

ERMEC, S.L. MADRID
C/ Sagasta, 8, 1ª planta
E-28004 Madrid
(Spain)

PORTUGAL
portugal@ermec.com
BILBAO
bilbao@ermec.com

miniature pcb relays

Series

	DTC0 / DTC0B	DTC1	DTC2
Click on photograph for data sheet			
Dimensions L x W x H	16 x 11 x 11.5 mm 0.63 x 0.43 x 0.45 in	12.7 x 7.6 x 10 mm 0.5 x 0.3 x 0.40 in	21 x 10 x 11.6 mm 0.83 x 0.4 x 0.46 in
Features & Applications	Sub-miniature DIL pitch, Two styles 5A / 24V DC rating	Ultra-Miniature High sensitivity SMD type available	Sub-miniature DIL pitch Telecom Relay

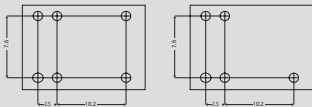
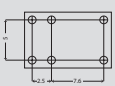
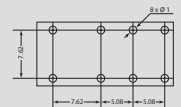
Contacts

Contact form	SPDT	SPDT	DPDT
Contact materials	AgNi 0.15, AgNi 0.15+Au	AgNi 0.15+Au (0.2µm)	Ag + Au (2µm)
Max. switching current	16A 10A 8A 5A 3A 2A 1A 1A 3A 5A	2A	1A / 2A
Max. switching voltage	120V AC / 24V DC	120V AC / 60VDC	120V AC / 24V DC
Max. switching power		240VA / 48W	120VA / 48W
Rated load (resistive)	3A 120V AC / 24V DC, 5A 120V AC / 24V DC	2A 120V AC / 24V DC	1A 120V AC / 2A 24V DC

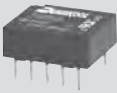
Coil

Rated voltage	DC 3...24V	DC 3...24V	DC 3...48V
Rated nominal power consumption	0.36W, 0.45W	0.15W	0.2W, 0.36W

General data

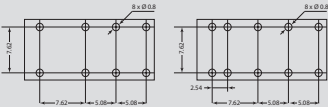
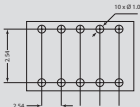
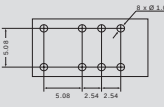
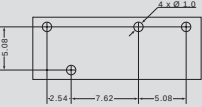
Dielectric strength (between coil and contacts) (between contact poles)	1,250VRMS -	1,000VRMS -	1,000VRMS 1,000VRMS
Ambient temperature (operating)	-25...+55°C	-30...+70°C	-30...+80°C
Operate/release time (typical)	5 / 5 ms	4 / 3 ms	8 / 4 ms
Electrical life (operations)	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Mechanical life (operations)	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
PC Board layout			
Terminal type	PCB	PCB & SMT	PCB
Recognitions, directives, approvals	RoHS	RoHS	RoHS
Cross references	Omron: G2E Tyco: OUAZ P&B: T81	Omron: G5V-1 Panasonic: HY	Omron: G5V-2 Panasonic: DS

miniature pcb relays

DTC3	DTC4	DTC5	DG6D
			
20.2 x 10.2 x 10.6 mm 0.79 x 0.40 x 0.42 in	14 x 9 x 5 mm 0.55 x 0.3 x 0.2 in	15 x 7.5 x 8.4 mm 0.6 x 0.3 x 0.33 in	17.5 x 6.5 x 12.5 mm 0.69 x 0.26 x 0.49 in
Sub-miniature Latching coils option Sensitive coils	Sub-miniature, low profile Surface mount options Latching coils option	Ultra - miniature Surface mount option Latching coil option	Miniature 5A Power Relay

DPDT	DPDT	DPDT	SPST-NO
Ag + Au (2µm)	AgPd + Au (0.2µm)	Ag Alloy	Ag Alloy
1A / 2A	1A	2A	5A
125V AC / 30V DC	250V AC / 220V DC	220V DC	30V DC / 250V AC
125VA / 60W	62.5VA / 30W	60W	1,250VA / 150W
1A 125V AC / 2A 30V DC	0.5A 125V AC / 1A 30V DC	2A / 30V DC	5A / 30V DC, 250V AC

DC 3...48V DC 3...24V (latching)	DC 3...24V DC 3...24V (latching)	DC 3...24V DC 3...24V (latching)	DC 5...24V
0.075W, 0.15W, 0.2W	0.1W, 0.14W, 0.2W	0.1W, 0.14W	0.2W

1,000VRMS	1,000VRMS	2,000VRMS	3,000VRMS
1,000VRMS	1,000VRMS	1,000VRMS	-
-30...+85°C	-30...+85°C	-40...+85°C	-25...+75°C
4 / 3 ms	2 / 1 ms	4 / 4 ms	10 / 5 ms
1 x 10 ⁵	2 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
1 x 10 ⁸	1 x 10 ⁸	1 x 10 ⁸	2 x 10 ⁷
			
PCB	PCB & SMT	PCB & SMT	PCB
RoHS	RoHS	RoHS	RoHS
Omron: G5V-2 Panasonic: DS2Y	Omron: G6H , G6H2F Panasonic: TQ	Fujitsu: FTR-C1 Panasonic: TX	Omron: G6D

miniature pcb relays

Series

	DG18	DM05	DG31
Click on photograph for data sheet			
Dimensions L x W x H	15.7 x 12.3 x 14 mm 0.62 x 0.48 x 0.55 in	20.5 x 10.6 x 15.3 mm 0.8 x 0.42 x 0.6 in	18.7 x 15.4 x 15.6 mm 0.74 x 0.6 x 0.61 in
Features & Applications	Miniature low cost power relay	Small PCB footprint Good isolation - 4kV Sensitive 200mW coil	Industry standard style Low cost DC Motor Control / Lamps

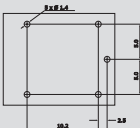
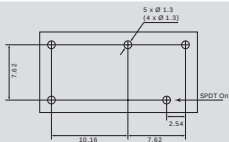
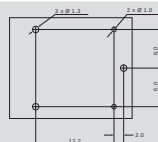
Contacts

Contact form	SPST-NO / SPDT	SPST-NO / SPDT	SPST-NO / SPDT
Contact materials	Ag Alloy	Ag Alloy	AgCdO / AgSnO ₂
Max. switching current	16A 10A 8A 5A 3A 2A 1A	10A (SPST-NO)	10A
Max. switching voltage	240V AC / 28V DC	277V AC / 30V DC	250V AC / 30V DC
Max. switching power	840VA / 400W	1,250VA / 150W	1,750VA / 280W
Rated load (resistive)	5A 240V AC 20A 14V DC	10A 250V AC (UL) 5A 250V AC / 30V DC	12A 120VAC 7A 250V AC / 10A 28V DC

Coil

Rated voltage	DC 6...24V	DC 3...24V	DC 3...48
Rated nominal power consumption	0.6W / 0.8W	0.2W / 0.45W	0.36W

General data

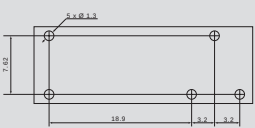
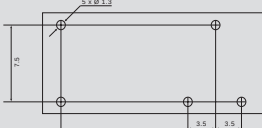
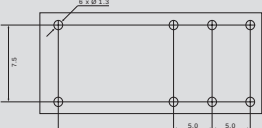
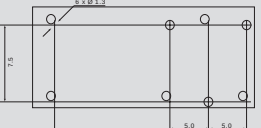
Dielectric strength (between coil and contacts) (between contact poles)	500VRMS	4,000VRMS	1,500VRMS
Ambient temperature (operating)	-55...+70°C	-40...+70°C	-40...+70°C
Operate/release time (typical)	10 / 5 ms	8 / 5 ms	8 / 5 ms
Electrical life (operations)	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Mechanical life (operations)	1 x 10 ⁶	1 x 10 ⁷	1 x 10 ⁷
PC Board layout			
Terminal type	PCB	PCB	PCB
Recognitions, directives, approvals	RoHS 	RoHS 	RoHS 
Cross references	Tyco: T78	Omron: G5Q Panasonic: JQ Fujitsu: JY	Omron: G5LA Tyco: T7N

miniature pcb relays

DG6L	DM41	DM42	DM43
			
28.5 x 10.1 x 12.3 mm 1.12 x 0.4 x 0.48 in	29 x 13 x 25.3 mm 1.14 x 0.51 x 1.00 in	29 x 13 x 25.3 mm 1.14 x 0.51 x 1.00 in	29 x 13 x 25.3 mm 1.14 x 0.51 x 1.00 in
8A switching capability 5kV coil to contact isolation Low height	Industry Standard 10A switching capability 5kV coil to contact isolation	Industry Standard 5A switching capability 5kV coil to contact isolation	Industry Standard 16A switching capability 5kV coil to contact isolation

SPST-NO / SPDT	SPST-NO / SPST-NC / SPDT	DPST-NO / DPDT	SPST-NO / SPDT
AgCdO	AgCdO / AgSnO ₂	AgCdO / AgSnO ₂	AgCdO / AgSnO ₂
8A	10A	5A	16A
440V AC / 125V DC	240V AC / 28V DC	240V AC / 28V DC	240V AC / 28V DC
2,000VA / 150W	2,400VA / 280W	1,250VA / 150W	4,000VA / 450W
8A 250V AC 5A 30V DC	10A 240V AC 10A 28V DC	5A 240V AC 5A 28V DC	16A 240V AC 16A 28V DC

DC 5...60	DC 5...110 AC 12...220	DC 5...110 AC 12...220	DC 3...110 AC 12...220
0.22W / 0.25W	0.53W / 1.0VA	0.53W / 1.0VA	0.53W / 1.0VA

5,000VRMS	5,000VRMS	5,000VRMS	5,000VRMS
-	-	1,000VRMS	-
-40...+85°C	-55...+75°C	-55...+70°C	-55...+70°C
7 / 3 ms	20 / 10 ms	20 / 10 ms	20 / 10 ms
1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
			
PCB	PCB	PCB	PCB
RoHS 	RoHS 	RoHS 	RoHS 
Omron: G6RN Tyco: RYII	Omron: G2R1 Tyco: RPII/1	Omron: G2R2 Tyco: RPII/2	Omron: G2R1-AE Tyco: RPII/1

miniature pcb relays

Series

	DM84	DM85	DM87
Click on photograph for data sheet			
Dimensions L x W x H	29 x 12.7 x 15.7 mm 1.14 x 0.5 x 0.62 in	29 x 12.7 x 15.7 mm 1.14 x 0.5 x 0.62 in	29 x 12.7 x 15.7 mm 1.14 x 0.5 x 0.62 in
Features & Applications	DPDT 8A switching capability Low Profile 12.7mm Reduced current coil	SPDT 16A Low Profile 12.7mm Reduced current coil	SPDT 12A Low Profile 12.7mm Reduced current coil

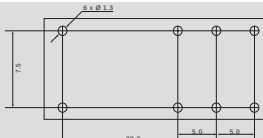
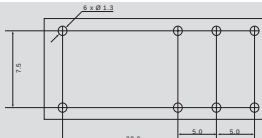
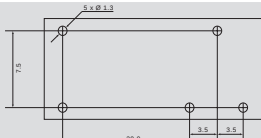
Contacts

Contact form	DPST-NO / DPDT	SPST-NO / SPDT	SPST-NO / SPDT
Contact materials	AgNi / AgNi+Au5mm / AgSnO ₂	AgNi / AgNi+Au5mm / AgSnO ₂	AgNi / AgNi+Au5mm / AgSnO ₂
Max. switching current	16A 10A 8A 5A 3A 2A 1A	16A	12A
Max. switching voltage	400V AC / 300V DC	400V AC / 300V DC	400V AC / 300V DC
Max. switching power	2,000VA / 192W	4,000VA / 385W	3,000VA / 280W
Rated load (resistive)	8A 250V AC 8A 24V Dc	16A 250V AC 16A 24V DC	12A 250V AC 12A 24V DC

Coil

Rated voltage	DC 3...110 AC 12...240	DC 3...110 AC 12...240	DC 3...110 AC 12...240
Rated nominal power consumption	0.4...0.48W / 0.75VA	0.4...0.48W / 0.75VA	0.4...0.48W / 0.75VA

General data

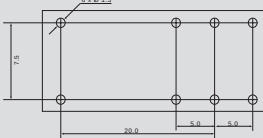
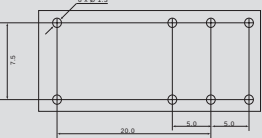
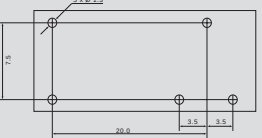
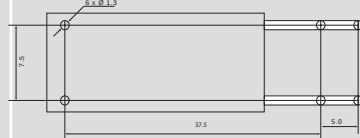
Dielectric strength (between coil and contacts) (between contact poles)	5,000VRMS 2,500VRMS	5,000VRMS -	5,000VRMS -
Ambient temperature (operating)	-40...+70°C	-40...+70°C	-40...+70°C
Operate/release time (typical)	7 / 3 ms	7 / 3 ms	7 / 3 ms
Electrical life (operations)	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Mechanical life (operations)	3 x 10 ⁷	3 x 10 ⁷	3 x 10 ⁷
PC Board layout			
Terminal type	PCB & SMT	PCB & SMT	PCB & SMT
Recognitions, directives, approvals	RoHS   	RoHS   	RoHS   
Cross references	Tyco: RT Omron: G2RL	Tyco: RT Omron: G2RL	Tyco: RT Omron: G2RL

miniature pcb relays

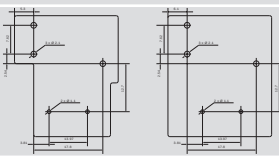
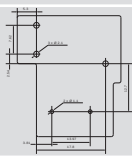
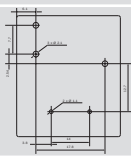
DX84	DX85	DX87	DX85V
			
29 x 12.7 x 15.7 mm 1.14 x 0.5 x 0.62 in	29 x 12.7 x 15.7 mm 1.14 x 0.5 x 0.62 in	29 x 12.7 x 15.7 mm 1.14 x 0.5 x 0.62 in	41 x 12.7 x 15.7 mm 1.6 x 0.5 x 0.62 in
DPDT 8A switching capability Low Profile 12.7mm Reduced current coil	SPDT 16A Low Profile 12.7mm Reduced current coil	SPDT 12A Low profile 12.7mm Sensitive 250mW coil option	Fast-on power terminals High temperature 125°C 20A switching capability

DPDT	SPDT	SPDT	SPST-NO
AgNi / AgSnO ₂	AgNi / AgSnO ₂	AgNi / AgSnO ₂	AgSnO ₂
8A	16A	10A / 12A	20A
440V AC / 125V DC	440V AC / 125V DC	440V AC / 125V DC	440V AC / 125V DC
2,000VA / 240W	4,000VA / 480W	3,000VA / 290W	5,000VA
8A 250V AC 8A 30V DC	16A 250V AC 16A 30V DC	12A 250V AC 12A 24V DC	20A 250V AC 20A 30VDC

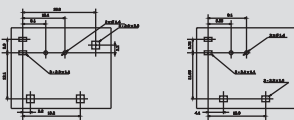
DC 5...110	DC 5...110	DC 5...110	DC 5...110
0.4W	0.4W	0.25 / 0.4W	0.4W

5,000VRMS	5,000VRMS	5,000VRMS	5,000VRMS
2,500VRMS	-	-	-
-40...+85°C	-40...+85°C	-40...+85°C	-40...+125°C
15 / 8 ms	15 / 8 ms	15 / 8 ms	15 / 8 ms
1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
			
PCB	PCB	PCB	PCB
RoHS 	RoHS 	RoHS 	RoHS 
Tyco: RT Omron: G2RL	Tyco: RT Omron: G2RL	Tyco: RT Omron: G2RL	Tyco: RF

pcb power relays

Series	DG34	DG38	DG38L
Click on photograph for data sheet			
Dimensions L x W x H	31.7 x 26.9 x 19.1 mm 1.25 x 1.06 x 0.75 in	32.5 x 27 x 20.5 mm 1.27 x 1.06 x 0.81 in	32.2 x 27.5 x 28 mm 1.27 x 1.08 x 1.10 in
Features & Applications	30A High Current Open, sealed and chassis ideal for heavy loads	High Current - up to 40A PCB mounting ideal for heavy loads	High Current - up to 45A Heavy loads - 10800VA Magnetic arc quench
Contacts			
Contact form	SPST-NO, SPDT	SPST-NO, SPST-NC, SPDT	SPST-NO, SPDT
Contact materials	AgCdO, AgSnOInO, AgSnO ₂	AgCdO, AgSnO ₂	AgCdO, AgSnOInO
Max. switching current	100A 80A 60A 40A 30A 20A 10A		
	30A	30 / 40A	45A
Max. switching voltage	277V AC / 30V DC	240V AC / 110V DC	240V AC / 28V DC
Max. switching power	7,200VA / 900W	7,200VA / 1,100W	10,800VA / 1,260W
Rated load (resistive)	30A 277V AC 30A 30V DC	40A 240V AC 40A 14V DC	45A 240V AC 45A 28VDC
Coil			
Rated voltage	DC 5...110V	DC 3...110V AC 12...220V	DC 5...110V
Rated nominal power consumption	0.9W / 1.0W	0.6W / 0.9W / 2VA	0.9W
General data			
Dielectric strength (between coil and contacts) (between contact poles)	1,500VRMS -	4,000VRMS -	1,500VRMS -
Ambient temperature (operating)	-55...+85°C	-55...+125°C	-55...+85°C
Operate/release time (typical)	15 / 15 ms	15 / 10 ms	15 / 10 ms
Electrical life (operations)	1 x 10 ⁵	1 x 10 ⁵	1.5 x 10 ⁴
Mechanical life (operations)	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
PC Board layout			
Terminal type	PCB, Fast-on & PCB+Fast-on	PCB	PCB+Fast-on
Recognitions, directives, approvals	RoHS 	RoHS 	RoHS 
Cross references	Tyco: T9A Omron: G8P	Tyco: T9A Omron: G8P	

automotive relays

Series	DG17	DG19	DG20
Click on photograph for data sheet			
Dimensions L x W x H	16 x 13.2 x 19.7 mm 0.63 x 0.52 x 0.78 in	26.5 x 21.5 x 21.5 mm 1.04 x 0.85 x 0.85 in	12.9 x 12 x 9.9 mm 0.50 x 0.47 x 0.39 in
Features	6 different contact configurations Open frame or sealed	Open or enclosed options. USA & Europe styles DC motor control, flashers	Ultra Miniature Extremely light weight High current - 30A
Contacts			
Contact form	SPST-NO, SPST-NC, SPDT, SPST-NO-DM, SPST-NC-DB, SPST-DB-DM	SPST-NO, SPST-NC, SPDT	SPST-NO, SPDT
Contact materials	AgNi0.15, AgNi, AgSnOInO, AgCdO	AgNi0.15, AgNi, AgSnOInO, AgCdO	AgNi0.15, AgSnOInO
Max. switching current	100A	45A (180A inrush)	30A (100A inrush)
	80A		
	60A		
	40A		
	30A		
	20A		
	10A	15A (100A inrush)	
Max. switching voltage	16V DC	30V DC	16V DC
Max. switching power	1,200W	2,160W	1,200W
Rated load (resistive)	NO: 15A / NC: 10A	NO: 45A / NC: 30A	NO: 30A / NC: 25A
Coil			
Rated voltage	DC 6, 12, 24V	DC 6, 12, 24	DC 6, 10, 12
Rated nominal power consumption	1.1W	1.5W	0.55W
General data			
Dielectric strength (between coil and contacts) (between contact poles)	500VRMS	500VRMS	500VRMS
	-	-	-
Ambient temperature (operating)	-40...+85°C	-40...+125°C	-40...+105°C
Operate/release time (typical)	3 / 1.5 ms	5 / 3 ms	3 / 1.5 ms
Electrical life (operations)	2 x 10 ⁵	2 x 10 ⁵	1 x 10 ⁵
Mechanical life (operations)	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
PC Board layout			
Terminal type	PCB	PCB	PCB
Recognitions, directives, approvals	RoHS	RoHS	RoHS
Cross references	Tyco: Mini K (V23072) P&B: VKM	Tyco: K (V23076) P&B: VKP Omron: G8PE	Tyco: Micro K (V23086)

automotive relays

Series

	DG27	DG31A	DG34A
Click on photograph for data sheet			
Dimensions L x W x H	23.5 x 12.9 x 9.5 mm 0.93 x 0.51 x 0.37 in	19 x 15.5 x 15 mm 0.75 x 0.61 x 0.59 in	31.7 x 26.9 x 19.1 mm 1.25 x 1.06 x 0.75 in
Features & Applications	Sub-miniature 2 x DG20 up to 2 x 30A switching ideal for DC motor reversing	Low cost Industry standard footprint 20A switching capability	Low cost 30A switching capability Optimised for DC

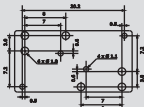
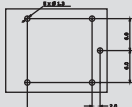
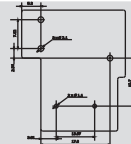
Contacts

Contact form	2 x SPST-NO, 2 x SPDT	SPST-NO, SPDT	SPST-NO, SPST-NC, SPDT
Contact materials	AgNi0.15, AgSnOInO	AgNi0.15, AgNi, AgSnOInO, AgCdO	AgNi0.15, AgNi, AgSnOInO, AgCdO
Max. switching current	100A 80A 60A 40A 30A 20A 10A		
	30A (100A inrush)	20A	30A (60A inrush)
Max. switching voltage	16V DC	16V DC	75V DC
Max. switching power	1,200W	320W	360W
Rated load (resistive)	NO: 30A / NC: 25A	20A	NO: 30A / NC: 15, 20A

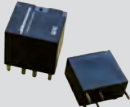
Coil

Rated voltage	DC 6, 10, 12V	DC 6, 12, 24V	DC 6, 12, 24V
Rated nominal power consumption	0.55W	0.8W	0.9W, 1W

General data

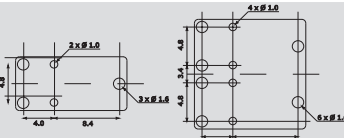
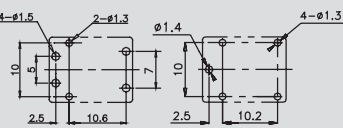
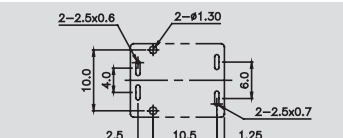
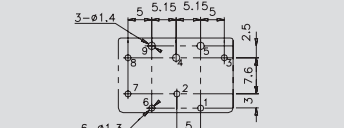
Dielectric strength (between coil and contacts) (between contact poles)	500VRMS -	1,000VRMS -	500VRMS -
Ambient temperature (operating)	-55...+105°C	-40...+85°C	-40...+125°C
Operate/release time (typical)	3 / 1.5 ms	10 / 5 ms	9 / 7 ms
Electrical life (operations)	1 x 10 ⁵	1 x 10 ⁵	2 x 10 ⁵
Mechanical life (operations)	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
PC Board layout			
Terminal type	PCB	PCB	PCB
Recognitions, directives, approvals	RoHS	RoHS	RoHS
Cross references	Tyco: Double Micro K (V23086)	Tyco: T72M Panasonic: CQ Omron: G8SN	Tyco: T91 / T9AR Panasonic: JT-N

automotive relays

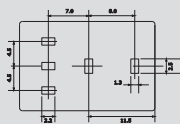
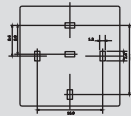
DG60	DG81	DG81C	DG08
			
14.3 x 7.5 x 13.8 mm (single) 14.3 x 14.7 x 13.8 mm (twin)	15.7 x 12.3 x 13.7 mm 0.62 x 0.48 x 0.54 in	15.7 x 12.3 x 13.8 mm 0.62 x 0.48 x 0.54 in	24.3 x 15.8 x 14.0 mm 0.96 x 0.62 x 0.55 in
Ultra miniature Twin & single relay types	High current capabilities Extended temperature 125°C Double make configurations	High current 2 x 35A 1 Form U contact	2 x DG81 High current switching Ideal for DC motor control

SPDT, 2 x SPDT	SPST-NO, SPST-NC, SPDT, SPST-NO-DM	SPST-NO-DM	2 x SPDT
AgSnO ₂	AgNi0.15, AgSnOInO, AgCdO	AgNi0.15, AgSnOInO, AgCdO	AgNi0.15, AgNi, AgSnOInO, AgCdO
25A	30A (60A inrush)	2 x 30A (35A inrush)	2 x 35A (60A inrush)
16V DC	16V DC	16V DC	16VDC
300W	360W	2 x 360W (2 min)	420W (10 min)
25A	35A / 2 x 10A	2 x 30A	2 x 35A (10 min)

DC 12V	DC 6...24V	DC 6...12V	DC 6...24V
0.64W, 0.8W, 1.1W	0.6W, 0.8W	0.85W	0.6W, 0.8W

500VRMS	500VRMS	500VRMS	500VRMS
-	-	-	-
-40...+105°C	-40...+125°C	-40...+85°C	-30...+85°C
2.5 / 1.2 ms	10 / 5 ms	10 / 5 ms	10 / 5 ms
1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
1 x 10 ⁶	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
			
PCB	PCB	PCB	PCB
RoHS	RoHS	RoHS	RoHS
Omron: G8N, G8ND, G8NW	Fujitsu: FBR51 / FBR52 Panasonic: JJM Omron: G8QN	Fujitsu: FBR53ND10-Y-HW Panasonic: JJM-DM Omron: G8SE	Fujitsu: FBR510-520

automotive relays

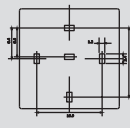
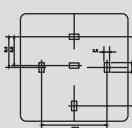
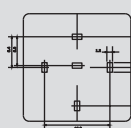
Series	DG82	DG90	DG56A
Click on photograph for data sheet			
Dimensions L x W x H	23.7 x 15.7 x 26.0 mm 0.93 x 0.62 x 1.02 in (exc. terminals)	22.5 x 15.2 x 15.7 mm 0.89 x 0.60 x 0.62 in (exc. terminals)	26 x 26 x 24 mm 1.02 x 1.02 x 0.94 in (exc. terminals)
Features & Applications	Micro - ISO style 40A continuous current PCB mounting option	Micro-ISO style Reduced height 20A continuous current	Mini-ISO style 40A continuous current Plug-in, PCB & Bracket
Contacts			
Contact form	SPST-NO, SPST-NC, SPDT	SPST-NO	SPST-NO, SPDT
Contact materials	AgNi0.15, AgNi, AgSnOInO, AgCdO	AgSnO ₂	AgSnO ₂
Max. switching current	100A 80A 60A 40A 30A 20A 10A		
	40A (120A inrush)	20A (40A inrush)	40A (120A inrush)
Max. switching voltage	16V DC (current dependent)	16V DC	30V DC (current dependent)
Max. switching power	1,440W	240W	1,440W
Rated load (resistive)	NO: 40A / NC: 30A	20A	NO: 40A / NC: 30A
Coil			
Rated voltage	DC 6, 12, 24V	DC 12	DC 6, 12, 24
Rated nominal power consumption	1.2W, 1.5W	1.2W	1.6W
General data			
Dielectric strength (between coil and contacts) (between contact poles)	500V _{RMS} -	500V _{RMS} -	500V _{RMS} -
Ambient temperature (operating)	-55...+125°C	-40...+120°C	-40...+85°C
Operate/release time (typical)	39 / 7 ms		7 / 5 ms
Electrical life (operations)	2 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Mechanical life (operations)	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
PC Board layout		See Durakool Socket Catalogue for suitable sockets	
Terminal type	PCB & Plug-in	Plug-in only	PCB & Plug-in
Recognitions, directives, approvals	RoHS	RoHS	RoHS
Cross references	Tyco: Micro A Tyco: VFM		Tyco: VF4 (V23134)

automotive relays

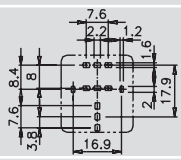
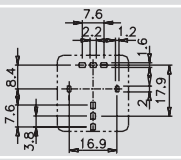
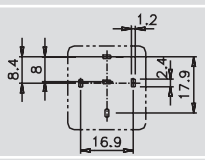
DG56B	DG4F	DG85A	DG85B
			
26 x 26 x 24 mm 1.02 x 1.02 x 0.94 in (exc. terminals)	36 x 25.2 x 21 mm 1.42 x 0.99 x 0.83 in (exc. terminals)	28 x 28 x 25 mm 1.10 x 1.10 x 1 in (exc. terminals)	28 x 28 x 25 mm 1.10 x 1.10 x 1 in (exc. terminals)
Mini-ISO style 60A continuous current Plug-in, PCB & Bracket	Mini ISO style Integrated Auto Fuse Holder Plug-in with Bracket option	Mini-ISO style 40A continuous current Plug-in, PCB & Bracket	Mini-ISO style 60A continuous current Plug-in, PCB & Bracket

SPST-NO, SPDT	SPST-NO	SPST-NO, SPDT	SPST-NO, SPDT
AgSnO ₂	AgSnOInO	AgCdO, AgNi0.15, AgNi 90/10, AgSnOInO	AgCdO, AgNi0.15, AgNi 90/10, AgSnOInO
60A (120A inrush)	30A	40A (120A inrush)	60A (120A inrush)
30V DC (current dependent)	14V DC	30VDC (current dependent)	30VDC (current dependent)
1,440W	420W	1440W	1440W
NO: 60A / NC: 40A	30A	NO: 40A / NC: 30A	NO: 60A / NC: 40A

DC 6, 12, 24	DC 6, 12, 24	DC 6, 12, 24	DC 6, 12, 24
1.6W	1.8W	1.6W	1.6W

500VRMS	550VRMS	500VRMS	500VRMS
-	-	-	-
-40...+85°C	-40...+125°C	-40...+125°C	-40...+125°C
7 / 5 ms	7 / 5 ms	7 / 2 ms	7 / 2 ms
1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
	See Durakool Socket Catalogue for suitable sockets		
PCB & Plug-in	Plug-in only	PCB & Plug-in	PCB & Plug-in
RoHS	RoHS	RoHS	RoHS
Tyco: F7 (V23134)		Tyco: VF4 (V23134) Panasonic: CB	Tyco: VF4 Omron: G8JN

automotive relays

Series	DG85C	DG85D	DG85F
Click on photograph for data sheet			
Dimensions L x W x H	28 x 28 x 25 mm 1.10 x 1.10 x 1 in (exc. terminals)	28 x 28 x 25 mm 1.10 x 1.10 x 1 in (exc. terminals)	28 x 28 x 25 mm 1.10 x 1.10 x 1 in (exc. terminals)
Features & Applications	Mini-ISO style 80A continuous current Plug-in, PCB & Bracket	Mini-ISO style 100A continuous current Plug-in, PCB & Bracket	Mini-ISO style Optimised for 24V DC 60A continuous current
Contacts			
Contact form	SPST-NO, SPDT	SPST-NO	SPST-NO, SPDT
Contact materials	AgCdO, AgNi0.15, AgNi 90/10, AgSnOInO	AgCdO, AgNi0.15, AgNi 90/10, AgSnOInO	AgCdO, AgNi0.15, AgNi 90/10, AgSnOInO
Max. switching current	80A (240A inrush)	100A (240A inrush)	60A (120A inrush)
Max. switching voltage	30VDC (current dependent)	30VDC (current dependent)	24VDC
Max. switching power	2,880W	2,880W	1,440W
Rated load (resistive)	NO: 80A / NC: 60A	100A	60A
Coil			
Rated voltage	DC 6, 12, 24V	DC 6, 12, 24V	DC 6, 12, 24V
Rated nominal power consumption	1.6W	1.6W	2.3W
General data			
Dielectric strength (between coil and contacts) (between contact poles)	500V _{RMS} -	500V _{RMS} -	500V _{RMS} -
Ambient temperature (operating)	-40...+125°C	-40...+125°C	-40...+125°C
Operate/release time (typical)	7 / 2 ms	7 / 2 ms	7 / 2 ms
Electrical life (operations)	1 x 10 ⁵	1 x 10 ⁵	5 x 10 ⁴
Mechanical life (operations)	1 x 10 ⁷	1 x 10 ⁷	5 x 10 ⁵
PC Board layout			
Terminal type	PCB & Plug-in	PCB & Plug-in	PCB & Plug-in
Recognitions, directives, approvals	RoHS	RoHS	RoHS
Cross references	Tyco: VF7		

industrial relays

Series

	D2	D3	D4
Click on photograph for data sheet			
Dimensions L x W x H	27.5 x 21.2 x 35.6 mm 1.08 x 0.83 x 1.4 in	27.5 x 21.2 x 35.6 mm 1.08 x 0.83 x 1.4 in	27.5 x 21.2 x 35.6 mm 1.08 x 0.83 x 1.4 in
Features & Applications	12A switching Test lever and LED Industry standard pin relay	10A switching Test lever and LED Industry standard pin relay	6A switching Test lever and LED Industry standard relay

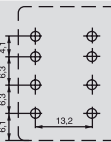
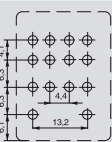
Contacts

Contact form	DPDT	3PDT	4PDT
Contact materials	AgNi, AgNi/Au 0.2µm, AgNi/Au 5µm	AgNi, AgNi/Au 0.2µm, AgNi/Au 5µm	AgNi, AgNi/Au 0.2µm, AgNi/Au 5µm
Max. switching current	12A	10A	6A
Max. switching voltage	250V AC, 250V DC	250V AC, 250V DC	250V AC, 250V DC
Max. switching power	3,000VA / 288W	2,500VA / 240W	1,500VA / 145W
Rated load (resistive)	12A 250V AC 12A 24V DC	10A 250V AC 10A 24V DC	6A 250V AC 6A 24V DC

Coil

Rated voltage	DC 5...220V AC 6...240V	DC 5...220V AC 6...240V	DC 5...220V AC 6...240V
Rated nominal power consumption	DC 0.9W, AC 1.6VA	DC 0.9W, AC 1.6VA	DC 0.9W, AC 1.6VA

General data

Dielectric strength (between coil and contacts) (between contact poles)	2,500V AC 2,500V AC	2,500V AC 2,500V AC	2,500V AC 2,500V AC
Ambient temperature (operating)	AC: -40...+55°C DC -40...+70°C	AC: -40...+55°C DC -40...+70°C	AC: -40...+55°C DC -40...+70°C
Operate/release time (typical) AC	AC: 10 / 8, DC: 13 / 3 ms	AC: 10 / 8, DC: 13 / 3 ms	AC: 10 / 8, DC: 13 / 3 ms
Electrical life (operations)	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Mechanical life (operations)	2 x 10 ⁷	2 x 10 ⁷	2 x 10 ⁷
PC Board layout			
Terminal type	Plug-in, PCB	Plug-in, PCB	Plug-in, PCB
Recognitions, directives, approvals	RoHS   	RoHS   	RoHS   
Cross references	Omron: MY2		Omron: MY4

industrial relays

Series

	DX2	DX4	DY
Click on photograph for data sheet			
Dimensions L x W x H	27 x 21 x 36.5 mm 1.06 x 0.83 x 1.44 in	27 x 21 x 36.5 mm 1.06 x 0.83 x 1.44 in	28 x 21 x 36 mm 1.1 x 0.83 x 1.42 in
Features Applications	Industry standard relay 10A switching LED and test lever	Industry standard relay 5A switching, 3PDT option LED & Test Lever	16A SPDT / 10A DPDT General purpose relay Industry standard style

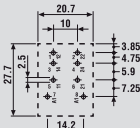
Contacts

Contact form	DPDT	4PDT	SPDT, DPDT
Contact materials	AgNi	AgNi	AgCdO
Max. switching current	35A 30A 25A 20A 15A 10A 5A		
Max. switching voltage	240V AC / 28V DC	240V AC / 28V DC	277V AC / 28V DC
Max. switching power	2,400VA / 280W	1,200VA / 140W	3,840VA / 450W
Rated load (resistive)	10A 240VAC 10A 28V DC	5A 240V AC 5A 28V DC	16A 240V AC 16A 28V DC

Coil

Rated voltage	DC 6...220V AC 6...380V	DC 6...220V AC 6...380V	DC 6...220V AC 6...380V
Rated nominal power consumption	0.9W / 1.2VA	0.9W / 1.2VA	0.9W / 1.2VA

General data

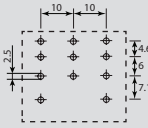
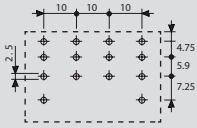
Dielectric strength (between coil and contacts) (between contact poles)	1,500VRMS 1,000VRMS	1,500VRMS 1,000VRMS	1,500VRMS 1,000VRMS
Ambient temperature (operating)	-55...+70°C	-55...+70°C	-40...+70°C
Operate/release time (typical)	20 /20 ms	20 /20 ms	20 /20 ms
Electrical life (operations)	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Mechanical life (operations)	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
PC Board layout	See Durakool Socket Catalogue for suitable PCB sockets	See Durakool Socket Catalogue for suitable PCB sockets	
Terminal type	Plug-in	Plug-in	PCB, Plug-in
Recognitions, directives, approvals	RoHS	RoHS	RoHS 
Cross references	Omron: MY2	Omron: MY4	Omron: LY1 & LY2 Tycos: PCLH

industrial relays

DY	DY	DY2	D15
			
28 x 31 x 36 mm 1.1 x 1.22 x 1.42 in	28 x 41 x 36 mm 1.1 x 1.61 x 1.42 in	27.5 x 21.1 x 34.5 mm 1.08 x 0.83 x 1.36 in	35 x 35 x 54.4 mm 1.38 x 1.38 x 2.14 in
10A 3PDT PCB & Plug-in styles Industry standard relay	10A 4PDT PCB & Plug-in styles Industry standard relay	12A DPDT Plug-in and chassis mounting 2.5 kV isolation	10A DPDT & 3PDT Octal & 11 pin LED & Test lever

3PDT	4PDT	DPDT	DPDT, 3PDT
AgCdO	AgCdO	AgNi, AgCdO	AgNi, AgNi/Au 0.2µm, AgNi/Au 5µm
10A	10A	12A	10A
277V AC / 28V DC	277V AC / 28V DC	250V AC / 250V DC	250V AC / 250V DC
2,400VA / 280W	2,400VA / 280W	3,000VA / 360W	2500VA / 240W,
10A 240V AC 10A 28V DC	10A 240V AC 10A 28V DC	12A 250V AC 12A 30V DC	10A 250V AC 10A 24V DC

DC 6...220V AC 6...380V	DC 6...220V AC 6...380V	DC 5...220V AC 6...240V	DC 6...220V AC 6...240V
0.9W / 1.2VA	0.9W / 1.2VA	0.9W / 1.6VA	1.5W / 2.8VA

1,500VRMS	1,500VRMS	2,500VRMS	2,500VRMS
1,000VRMS	1,000VRMS	2,500VRMS	2,000VRMS
-40...+70°C	-40...+70°C	-40...+55°C	-40...+55°C
20 / 20 ms	20 / 20 ms	15 / 10 ms	AC: 12 / 10 ms DC: 18 / 7 ms
1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	2 x 10 ⁵
1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷	2 x 10 ⁷
		See Durakool Socket Catalogue for suitable sockets	See Durakool Socket Catalogue for suitable sockets
PCB, Plug-in	PCB, Plug-in	Plug-in	Plug-in
RoHS 	RoHS 	RoHS 	RoHS  
Omron: LY3	Omron: LY4	Omron: LY2 Tyco: PCLH	Omron: MK Tyco: MT

industrial relays

Series

	D15 4P	DX15	DA
Click on photograph for data sheet			
Dimensions L x W x H	35 x 42.5 x 54.5 mm 1.38 x 1.67 x 2.14 in	35 x 35 x 54.4 mm 1.38 x 1.38 x 2.14 in	35.5 x 35.5 x 42 mm 1.4 x 1.4 x 1.65 in
Features & Applications	10A 4PDT Optional LED & test feature Plug-in	10A DPDT & 3PDT Octal & 11 pin LED & Test lever	Compact 16A DPDT relay Chassis or PCB mounting 3mm contact gap

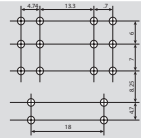
Contacts

Contact form	4PDT	DPDT, 3PDT	DPDT, DPST-NO, DPST-NC
Contact materials	AgCdO, AgCdO/Au 0.2µm, AgCdO/Au 5µm	AgNi	AgNi
Max. switching current	35A 30A 25A 20A 15A 10A 5A		
Max. switching voltage	250V AC / 250V DC	250V AC / 30V DC	400V AC / 30V DC
Max. switching power	2,500VA / 240W	2,500VA / 300W	4,000VA
Rated load (resistive)	10A 250V AC 10A 24V DC	10A 250V AC 10A 24V DC	16A 250V AC 16A 24V DC

Coil

Rated voltage	DC 6...220V AC 6...240V	DC 6...220V AC 6...240V	DC 6...110V AC 6...230V
Rated nominal power consumption	1.5W / 2.8VA	2W / 3.5AV	1.3W / 2.2VA

General data

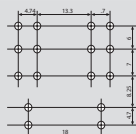
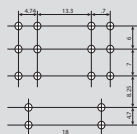
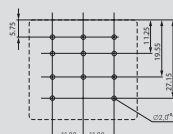
Dielectric strength (between coil and contacts) (between contact poles)	2,500VRMS 2,000VRMS	1,500VRMS 1,200VRMS	3,000VRMS 2,500VRMS
Ambient temperature (operating)	-40...+55°C		-40...+70°C
Operate/release time (typical)	AC: 12 / 10 ms DC: 18 / 7 ms	20 / 20 ms	10 ms / 12 ms
Electrical life (operations)	2 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Mechanical life (operations)	2 x 10 ⁷	1 x 10 ⁷	5 x 10 ⁶
PC Board layout	See Durakool Socket Catalogue for suitable sockets	See Durakool Socket Catalogue for suitable sockets	
Terminal type	Plug-in	Plug-in	PCB, Plug-in
Recognitions, directives, approvals	RoHS 	RoHS	RoHS 
Cross references		Omron: MK Tyco: MT	

industrial relays

DA	DA	DB16	DUC
			
35.5 x 35.5 x 42 mm 1.4 x 1.4 x 1.65 in	35.5 x 35.5 x 42 mm 1.4 x 1.4 x 1.65 in	42 x 44 x 66 mm 1.65 x 1.73 x 2.6 in	38.6 x 36.1 x 45.5 mm 1.52 x 1.42 x 1.79 in
Compact 20A SPST relay Custom versions >3mm contact gap	Compact 30A SPST-NO relay Custom versions Chassis or PCB mounting	16A 3PDT chassis mounting Suitable for 3 phase Compact style	16A SPDT, DPDT & 3PDT Industry standard style 3mm contact gap option

SPST-NC, SPST-NO+SPST-NC	SPST-NO	SPDT, DPDT, 3PDT SPST-NO, DPST-NO, 3PST-NO	SPDT, 3PDT, DPST-NO, 3PST-NO, 3mm Gap DPST-NO, 3PST-NO
AgNi	AgNi	AgNi	AgNi, AgCdO
20A	30A	16A	16A
400V AC / 30V DC	400V AC / 30V DC	400V AC	400V AC / 400V DC
5,000VA	7,500VA	4,000VA	4,000VA
20A 250V AC 20A 24V DC	30A 250V AC 30A 24V DC	16A 250V AC 16A 24V DC	16A 250V AC, 10A 380V AC 16A 24V DC

DC 6...110V AC 6...230V	DC 6...110V AC 6...230V	DC 6...110V AC 6...400V	DC 6...110V AC 6...380V
1.3W / 2.2VA	1.3W / 2.2VA	2W / 3.9VA	

4,000VRMS	4,000VRMS	2,500VRMS	2,500VRMS
2,500VRMS	2,500VRMS	2,500VRMS	2,500VRMS
-40...+70°C	-40...+70°C	-10...+55°C	-40...+70°C
10 ms / 12 ms	10 ms / 12 ms	15 ms / 12 ms	AC: 12 / 10, DC:12 / 7 ms
1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
5 x 10 ⁶	5 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁷
			
PCB, Plug-in	PCB, Plug-in	Fast-on Terminals	PCB, Plug-in
RoHS 	RoHS 	RoHS 	RoHS 
			Tyco (Schrack): RM Tyco (P&B):

industrial relays

Series

	DB30	DG36	DLR
Click on photograph for data sheet			
Dimensions L x W x H	42 x 44 x 66 mm 1.65 x 1.73 x 2.6 in	52.3 x 34.5 x 30.5 mm 2.06 x 1.36 x 1.2 in	52.5 x 33.5 max x 53 mm 2.07 x 1.32 max x 2.09 in
Features & Applications	Up to 30A 3PDT 3 phase power switching Chassis mounting	30A DPST-NO PCB or Chassis mounting 4kV isolation	Up to 30A switching Screw terminals, PCB or Socket mounting

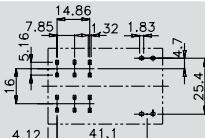
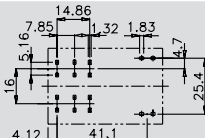
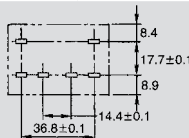
Contacts

Contact form	SPST-NO, DPST-NO, 3PST-NO SPDT, DPDT, 3PDT	DPST-NO, DPDT	SPST-NO, DPST-NO
Contact materials	AgNi	AgCdO, AgSnO ₂	AgCdO
Max. switching current	35A 30A 25A 20A 15A 10A 5A	30A (DPST-NO)	20/25A 30A (SPST-NO)
Max. switching voltage	400V AC	277V AC	250V AC
Max. switching power	7,500VA	7,500VA	4,400VA...6,600VA
Rated load (resistive)	30A 250V AC 30A 24V DC	30A 277V AC (DPST-NO) 20A 28V DC (DPST-NO)	20A...30A 220V AC

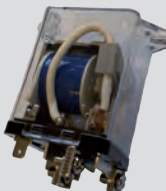
Coil

Rated voltage	DC 6...110V AC 6...400V	DC 6...110V AC 24...277V	DC 6...100V AC 6...240V
Rated nominal power consumption	2W / 3.9VA	1.7W / 4VA	1.9W / 2VA

General data

Dielectric strength (between coil and contacts) (between contact poles)	2,500VRMS 2,500VRMS	4,000VRMS 2,000VRMS	4,000VRMS 2,000VRMS
Ambient temperature (operating)	-10...+55°C	DC: -55...+85°C	-20...+85°C
Operate/release time (typical)	15 / 12 ms	15 / 10 ms	30 / 30 ms
Electrical life (operations)	1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Mechanical life (operations)	1 x 10 ⁶	5 x 10 ⁶	5 x 10 ⁶
PC Board layout			
Terminal type	Fast-On Terminals	PCB, Fast-On Terminals	PCB, Fast-On, Screw Terminals
Recognitions, directives, approvals	RoHS 	RoHS 	RoHS 
Cross references		Tyco P&B: T92	Omron: G7L

industrial relays

DT	HHC71-4	HHC71C	HHC71E
			
60 x 48 x 70 mm 2.36 x 1.89 x 2.75 in	60 x 53.5 x 67.5 mm 2.4 x 2.1 x 2.65 in	40 x 46 x 60.2 mm 1.57 x 1.81 x 2.37 in	47 x 54 x 67 mm 1.85 x 2.1 x 2.64 in
High Voltage (5kV) Ceramic Body Suitable for defibrillators	80A 3PDT Chassis mounting DC motor control	50A SPDT Chassis mounting Low cost & reliable	80A DPDT Chassis mounting Screw terminals

SPST-NO, DPST-NO, DPDT	SPST-NO, SPST-NC, SPDT 3PST-NO, 3PST-NC, 3PDT	SPST-NO, SPST-NC, SPDT	SPST-NO, SPST-NC, SPDT DPST-NO, DPST-NC, DPDT
AgSnO ₂	AgSnO ₂	AgSnO ₂	AgSnO ₂
10A	80A	50A	80A
5,000V AC	250V AC / 24V DC	250V AC / 24V DC	250V AC / 24V DC
5,000VA	20,000VA / 1920W	12,500VA / 1200W	20,000VA / 1920W
10A 500VAC	80A 250V AC 80A 24V DC	50A 250V AC 50A 24V DC	80A 250V AC 80A 24V DC

DC 6...110V AC 12...400V	DC 6...110V AC 6...380V	DC 6...110V AC 6...220V	DC 6...110V AC 6...380V
5.5W		2W / 6.5VA	3.6W

8,000VRMS	2,500VRMS	2,500VRMS	2,500VRMS
2,000VRMS	1,500VRMS	1,500VRMS	1,500VRMS
-10...+50°C	-40...+70°C	-40...+70°C	-40...+70°C
40 / 20 ms	25 / 25 ms	25 / 25 ms	25 / 25 ms
1 x 10 ⁵	2 x 10 ⁴	5 x 10 ⁴	2 x 10 ⁴
5 x 10 ⁵	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶
Fast-On Terminals	Solder Tag Terminals	Screw Terminals	Screw Terminals
RoHS 	RoHS 	RoHS 	RoHS 

industrial relays

Series

	HHC71F	HHC71G	HHC71G-2
Click on photograph for data sheet			
Dimensions L x W x H	59 x 64 x 62 / 86 x 68 x 65.5 mm 2.3 x 2.5 x 2.4 / 3.4 x 2.7 x 2.6 in	48 x 48.5 x 64.5 mm 1.89 x 1.91 x 2.54 in	47.5 x 60 x 68 mm 1.87 x 2.36 x 2.68 in
Features & Application	Up to 100A switching Fully enclosed Contactor alternative	Up to 60A / 250VAC DIN rail or chassis mounting Screw terminals	Up to 40A DPDT DIN rail or chassis mounting Solder tags

Contacts

Contact form	SPST-NO, SPST-NC, SPDT DPST-NO, DPST-NC, DPDT	SPST-NO, SPST-NC, SPDT	DPST-NO, DPST-NC, DPDT
Contact materials	AgSnO ₂	AgSnO ₂	AgSnO ₂
Max. switching current	100A 80A 60A 40A 30A 20A 10A	60A	40A
Max. switching voltage	250V AC / 24V DC	250V AC / 24V DC	250V AC / 24V DC
Max. switching power	25,000VA / 2,400W	15,000VA / 1,440W	10,000VA / 960W
Rated load (resistive)	SPST: 100A / DPST: 80A	60A / 250V AC 60A / 24V DC	40A / 250V AC 40A / 24V DC

Coil

Rated voltage	DC 6...110V AC 6...360V	DC 6...110V AC 6...220V	DC 6...110V AC 6...220V
Rated nominal power consumption	2W / 17.5VA	2W / 6.5VA	2W / 6.5VA

General data

Dielectric strength (between coil and contacts) (between contact poles)	2,500VRMS 1,500VRMS	2,500VRMS 1,500VRMS	2,500VRMS 1,500VRMS
Ambient temperature (operating)	-40...+70°C	-40...+70°C	-40...+70°C
Operate/release time (typical)	25 / 25 ms	25 / 25 ms	25 / 25 ms
Electrical life (operations)	2 x 10 ⁴	5 x 10 ⁴	5 x 10 ⁴
Mechanical life (operations)	5 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶
Terminal type	Screw Terminals	Screw Terminals	Solder Tags
Recognitions, directives, approvals	RoHS 	RoHS 	RoHS 
Cross references			

industrial interface relays

D2RS	DP6-1P	DP6-1T	DP6-OC
			
	80 x 6.2 x 93.8 mm 3.15 x 0.24 x 3.69 in	80 x 6.2 x 93.8 mm 3.15 x 0.24 x 3.69 in	80 x 6.2 x 93.8 mm 3.15 x 0.24 x 3.69 in
DIN Rail Mounting Relay with blade terminals Integral LED and test feature	DIN Rail Mounting Only 6.2mm wide LED & screw terminals	DIN Rail Mounting Only 6.2mm wide AC Solid-state output	DIN Rail Mounting Only 6.2mm wide DC solid-state output

SPDT, DPDT	SPDT	SPST-NO	SPST-NO
AgNi	AgSnO ₂ , AgSnO ₂ / Au 3µm	TRIAC	TRANSISTOR
10A 5A 4A 3A 2A 1A			
5A DPDT	6A		
10A SPDT			
		1.2A	0.5A
250V AC / 30V DC	250V AC / 220V DC	400V AC	70V DC
1250VA 150W / 2,500VA 300W	1,500VA / 144W	480VA	35W
5A / 250V AC // 10A / 250VAC 5A / 30V DC // 10A / 30V DC	6A / 250V AC 6A / 24V DC	1.2A / 400V AC	0.5A / 70V DC

DC 6...115V AC 6...230V	DC 12...230V AC 24...230V	DC 5-32V Control AC 24-230V Control	DC 5-32V Control AC 24-230V Control
0.53W /	0.3...1.6W / 0.35...2.2VA	0.3...1.6W / 0.3...1.6VA	0.3...1.0W / 0.3...1.0VA

5,000VRMS	4,000VRMS	4,000VRMS	3,000VRMS
1,000VRMS	1,000VRMS	Not Applicable	Not Applicable
-40...+65°C	-40...+40/50/60°C	-40...+55°C	-40...+55°C
20 / 10 ms	AC: 7/15 ms DC: 6/10 ms	10ms / 10ms	
1 x 10 ⁵	1 x 10 ⁵		
1 x 10 ⁷	2 x 10 ⁷	Not Applicable	Not Applicable
See Data Sheet for suitable DIN Rail sockets			
Plug-in only	Screw Terminals	Screw Terminals	Screw Terminals
RoHS	RoHS 	RoHS	RoHS

definite purpose contactors

Series	30C20	30C25	30C30	30C40
Click on photograph for data sheet				
Dimensions L x W x H	83.8 x 53.3 x 76.2 (max) mm 3.3 x 2.1 x 3.0 in	83.8 x 53.3 x 76.2 (max) mm 3.3 x 2.1 x 3.0 in	83.8 x 53.3 x 76.2 (max) mm 3.3 x 2.1 x 3.0 in	83.8 x 53.3 x 76.2 (max) mm 3.3 x 2.1 x 3.0 in
Features	20FLA rating Robust Arc covers standard Variety of terminations. Fan motors, heating	25FLA rating Robust Arc covers standard Variety of terminations. HVAC	30FLA rating Robust Arc covers standard Variety of terminations. Heating elements, lighting	40FLA rating Robust Arc covers standard Variety of terminations. Motors, power supplies, heating, HVAC

Contacts

Contact form	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
Contact materials	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOInO
Resistive load (250,000 operations)	30A	35A	40A	50A
FLA rating	20A	25A	30A	40A
LRA rating (Locked Rotor Amps)	120V AC 240/277VAC 480V AC 600V AC	120A 150A 125A 80A	150A (180A 4 Pole) 150A (180A 4 Pole) 125A (150A 4 Pole) 100A (100A 4 Pole)	200A (240A 3&4P) 200A (240A 3&4P) 200A 200A (160A 3&4P)
Max. switching voltage	600V AC	600V AC	600V AC	600V AC

Coil

Rated voltage	AC 24...480V	AC 24...480V	AC 24...480V	AC 24...480V
Rated nominal power consumption	VA 5...9	VA 5...9	VA 5...9	VA 5...9

General data

Dielectric strength (between coil and contacts)	2200V AC	2200V AC	2200V AC	2200V AC
(between contact poles)	2200V AC	2200V AC	2200V AC	2200V AC
Ambient temperature (operating)	-40...+65°C	-40...+65°C	-40...+65°C	-40...+65°C
Operate/release time	20 / 10 ms	20 / 10 ms	20 / 10 ms	20 / 10 ms
Terminations				
Coil Terminals	Dual 0.250" QC	Dual 0.250" QC	Dual 0.250" QC	Dual 0.250" QC
Power Terminals	#10-32 Screw or #14-4 AWG box lug + dual 0.25" QC	#10-32 Screw or #14-4 AWG box lug + dual 0.25" QC or quad 0.25" QC	#10-32 Screw or #14-4 AWG box lug + dual 0.25" QC or quad 0.25" QC	#10-32 Screw or #14-4 AWG box lug + dual 0.25" QC or quad 0.25" QC
Recognitions, directives, approvals	RoHS 	RoHS 	RoHS 	RoHS 

definite purpose contactors

Series	30C50	30C60	30C75	30C90
Click on photograph for data sheet				
Dimensions L x W x H	102 x 71 x 92 mm 4.02 x 2.79 x 3.62 in	102 x 71 x 92 mm 4.02 x 2.79 x 3.62 in	127 x 95.3 x 103 mm 5 x 3.75 x 4.05 in	127 x 95.3 x 103 mm 5 x 3.75 x 4.05 in
Features	50FLA rating Robust Arc covers standard Variety of terminations	60FLA rating Robust Arc covers standard Variety of terminations	75FLA rating Robust Arc covers standard Variety of terminations	90FLA rating Robust Arc covers standard Variety of terminations

Contacts

Contact form	DPST-NO-DM, 3PST-NO-DM	DPST-NO-DM, 3PST-NO-DM	DPST-NO-DM, 3PST-NO-DM	DPST-NO-DM, 3PST-NO-DM
Contact materials	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOInO	AgCdO, AgSnOInO
Resistive load (250,000 operations)	65A	75A	93A	120A
FLA rating	50A	60A	75A	90A
LRA rating (Locked Rotor Amps)	120V AC 300A 240/277VAC 300A 480V AC 250A 600V AC 200A	120V AC 300A 240/277VAC 300A 480V AC 250A 600V AC 240A (200A 3 Pole)	120V AC 450A 240/277VAC 450A 480V AC 375A 600V AC 300A	120V AC 540A 240/277VAC 540A 480V AC 450A 600V AC 360A
Max. switching voltage	600V AC	600V AC	600V AC	600V AC

Coil

Rated voltage	AC 24...480V	AC 24...480V	AC 24...480V	AC 24...480V
Rated nominal power consumption	VA 13(60Hz) / 18 (50Hz)	VA 13(60Hz) / 18 (50Hz)	VA 27(60Hz) / 42 (50Hz)	VA 27(60Hz) / 42 (50Hz)

General data

Dielectric strength (between coil and contacts)	2200V AC	2200V AC	2200V AC	2200V AC
(between contact poles)	2200V AC	2200V AC	2200V AC	2200V AC
Ambient temperature (operating)	-40...+65°C	-40...+65°C	-40...+65°C	-40...+65°C
Operate/release time	30 / 15 ms	30 / 15 ms	40 / 25 ms	20 / 10 ms
Terminations				
Coil Terminals	Dual 0.250" QC	Dual 0.250" QC	Dual 0.250" QC	Dual 0.250" QC
Power Terminals	#1/4-20 Screw or #14-2 AWG box lug + dual 0.25" QC	#1/4-20 Screw or #14-2 AWG box lug + dual 0.25" QC	#1/4-20 Screw or #14-1 AWG box lug + dual 0.25" QC	#1/4-20 Screw or #14-1 AWG box lug + dual 0.25" QC
Recognitions, directives, approvals	RoHS 	RoHS 	RoHS 	RoHS 

Due to our constant development policy, American Electronic Components Inc. reserves the right to introduce changes to the data and characteristics of the products. The devices shall be operated by skilled personnel in accordance with the regulations in force pertaining to electrical systems. The technical data is of informational nature. Thus, American Electronic Components Inc. does not accept any liability for inappropriate use of the presented products.

DURAKOOL

Durakool and American Electronic Components Inc., specializes in the design and manufacture of electronic, electrical, and mechanical components. AEC's products are shipped worldwide for a diverse set of markets which include automotive, consumer electronics, appliance, industrial control and outdoor power equipment manufacturers.

For more information, contact the AEC Sales Department toll free [USA] 888-847-6552.

Products from American Electronic Components Inc. and Durakool:

- sub-miniature relays
- miniature relays
- automotive relays
- industrial relays
- interface relays
- plug-in sockets for relays
- contactors
- timer relays
- mercury contactors
- tilt switches
- tip-over switches
- G - force switches
- float switches
- liquid level switches & sensors
- hermetic seals & feed-thru's
- sight glasses



Mercury Contactors



Tilt and Tip-over Switches



Hermetic Seals



Float Switches and Liquid Level Sensors



Proximity sensors

presented by:



www.durakoolrelays.com

American Electronic Components Inc., 1101 Lafayette Street, Elkhart, Indiana IN46516

Tel: toll free [USA] 888-847-6552 Intl: 574-295-6330