



PLUG IN RELAYS



BCH ELECTRIC LIMITED
we care for you



Plug In Relays

- Mechanical Indicator and Manual Testing/Latching facility built in
- LED Indication
- Cadmium - Free Contacts
- Voltage withstanding - 2000 V (min)
- Coil DC & AC
- 35 mm DIN Rail Mounting (TH35 - EN 50022)
- General Purpose Relays



Universal Auxiliary Relay (ARPU)



Miniature Auxiliary Relay (ARPM)



Specifications

Contact number & arrangement		2C/O ; 3 C/O	2 C/O ; 4 C/O
Rated load	AC 1	10 A/250V, 50 Hz AC	5 A/250V, 50 HZ AC
	DC 1	10 A/24V DC	5 A/24V DC
Min. switching current		50 mA	10 mA
Max. inrush current		20 A	10 A
Rated current		10 A	5 A
Max. braking capacity		2500VA	1250VA
Resistance		≤ 100 mW at 100 mA, 24V	≤ 100 mW at 100 mA, 24V
Coil voltage*		24V DC; 110V & 230V AC, 50 Hz	24V DC; 110V & 230V AC, 50 Hz
Must release voltage		$\geq 0.1 U_n$ (DC) ; $\geq 0.15 U_n$ (AC)	$\geq 0.1 U_n$ (DC) ; $\geq 0.2 U_n$ (AC)
Rated power consumption		1.5 W (DC)	0.9 W (DC)
		2.5 VA (AC)	1.6 VA (AC)
Insulation category		C250	B250
Insulation rated voltage		250V AC	250V AC
Dielectric strength -	Coil-contact	2500V AC	2000V AC
Max. operating frequency-	at rated load	1200 Cycles/hour	1200 Cycles/hour
	No load	12000 Cycles/hour	18000 Cycles/hour
Operating time (Typical value)		12 ms (AC) ; 12 ms (DC)	10 ms (AC) ; 13 ms (DC)
Release time (Typical value)		10 ms (AC) ; 7 ms (DC)	8 ms (AC) ; 3 ms (DC)
Mechanical life (Cycles)		$\geq 2 \times 10^7$	$\geq 2 \times 10^7$
Electrical life at Resistive load		$\geq 2 \times 10^5$ at 10A 250V AC	$\geq 1 \times 10^5$ at 5A 250V AC
Dimensions (L X W x H)		35 x 35 x 54.4 mm	27.5 x 21.2 x 35.6 mm
Weight		83 g	35 g
Ambient temperature	-Storing	-40 ... +85° C	-40 ... +85° C
	-Operating	-40 ... +70° C	-40 ... +70° C
Cover protection category		IP 40	IP 40
Shock resistance		10 g	10 g
Vibration resistance		5 g for 10--150 Hz	5 g for 10--150 Hz
Contact material		AgNi	AgNi
Approvals		VDE, UL, CSA, SEV, B, GOST, EZU	VDE, UL, cUL, B, GOST
Socket		ARSU 8 (For 2 C/O)	ARSM 8 (For 2 C/O)
		ARSU 11 (For 3 C/O)	ARSM14 (For 4 C/O)
Clamp		ARPUCL	ARPMCL

Coil Data

	ARPU			ARPM		
Coil code	24 D	110 A	230 A	24 D	110 A	230 A
Rated voltage (V)	24V DC	110V AC	230V AC	24V DC	110V AC	230V AC
Coil resistance ($\pm 10\%$) at 20° C Ohm	430.0	2,000.0	7,900.0	640.0	3,100.0	15,400.0
Coil operating range						
Min. (at 20° C) - (V)	19.2	88.0	184.0	19.2	88.0	184.0
Max. (at 20° C) - (V)	26.4	121.0	253.0	26.4	121.0	253.0

*Other coil voltages are available on request



Ordering Information

ARP

U : Universal Auxiliary Relay
M : Miniature Auxiliary Relay

Universal Aux. Relay : 2 : 2 Change Over
3 : 3 Change Over

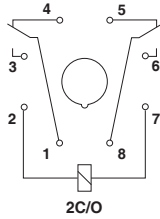
Miniature Aux. Relay : 2 : 2 Change Over
4 : 4 Change Over

Blank : No LED Indication
LE : LED Indication

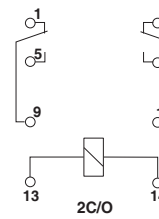
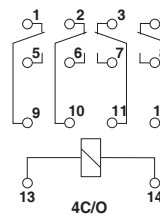
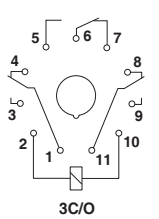
24 D : 24 Volt DC Coil Voltage
110 A : 110 Volt, 50 Hz AC Coil Voltage
230 A : 230 Volt, 50 Hz AC Coil Voltage

Connection Diagram

ARPU relay

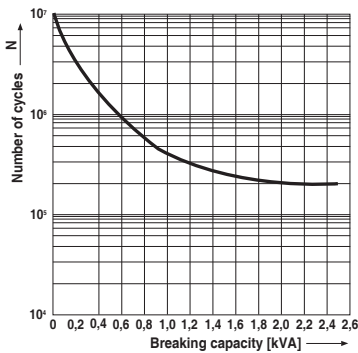


ARPM relay

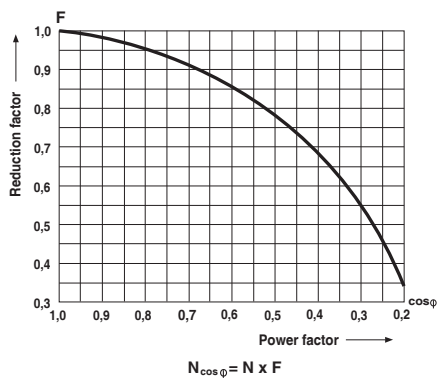


Electrical Life at AC Resistive Load

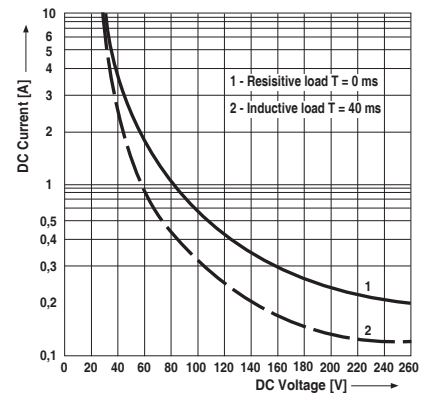
ARPU relay



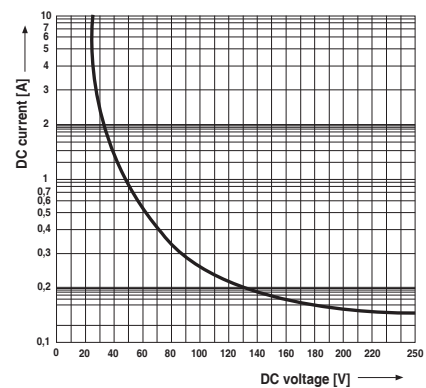
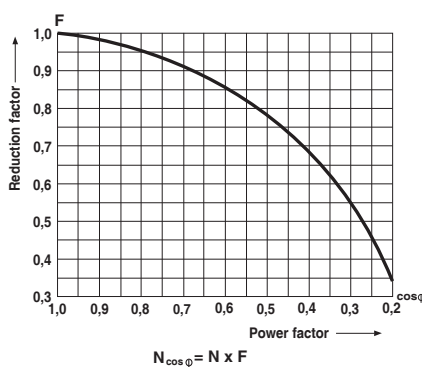
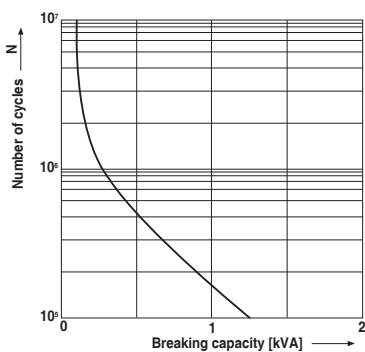
Electrical Life Reduction at AC Inductive Load



Electrical Load Breaking Capacity

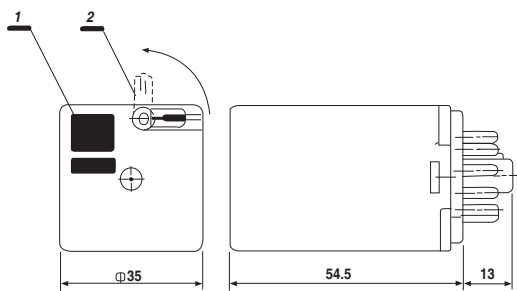


ARPM relay



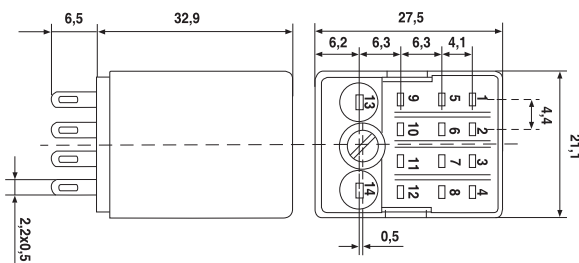
Dimensions

ARPU relay



- Mechanical indicator window
- Mechanical latching

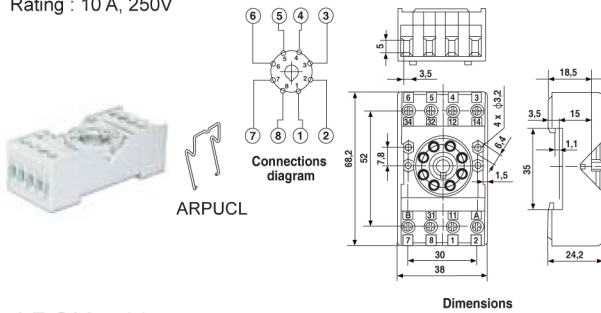
ARPM relay



Sockets (with screw terminals)

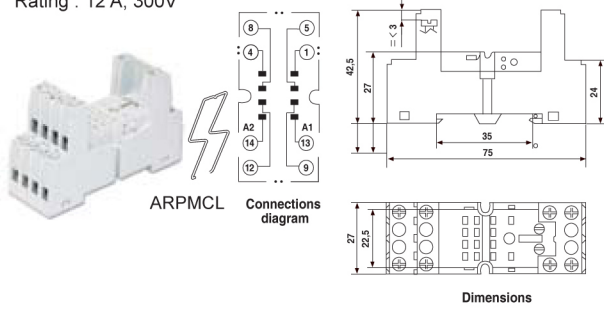
ARSU - 8

35 mm DIN rail mounting
Rating : 10 A, 250V



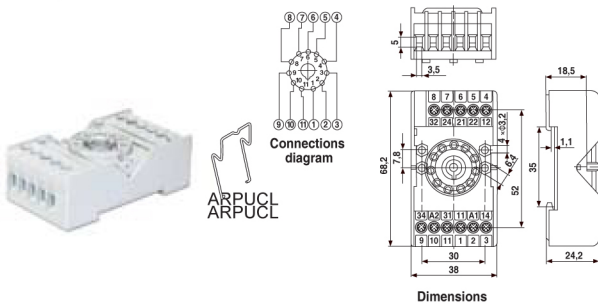
ARSM - 8

35 mm DIN rail mounting
Rating : 12 A, 300V



ARSU - 11

35 mm DIN rail mounting
Rating : 10 A, 250V



ARSM - 14

35 mm DIN rail mounting
Rating : 12 A, 300V

