

# ONE CHANGE OVER - DC COIL VOLTAGE WITH SPRING TERMINALS

## Features

- Available in 1/2/4/8/16 Channels.
- Coil Voltage 5/12/24/48V DC.
- Switching Current 12A at 24V DC/ 250V AC.
- Freewheeling Diode across relay coil for protection.
- LED indication to denote relay actuation.
- Available with pluggable relays, directly soldered on request.
- Available with Fully Sealed Relay on request.
- Mountable on Universal DIN Rail.



## TECHNICAL INFORMATION

### GENERAL DATA

Number of Channels	1/2/4/8/16 channels other than specified available on request.
Positive/Negative looping	By using jumper caps, remove all jumper caps to make relay independent
Input indication	3 mm green LED for input status
Relay protection	Free wheeling diode 1N4007 across relay coil
Relay Socket	Paramount or equivalent
Ambient operating temperature	0°C to 50°C
Housing material	PVC/V0 Grade, Phoenix Contact or equivalent
Housing color	Green
Conformal coating	Insulate, protect and seal electronic parts, available on request
RoHS compliant	All the components used including PCBs are RoHS approved

### RELAY COIL DATA

Rated coil voltage	5V DC	12V DC	24V DC	48V DC
Coil resistance (Ohms)	62.5	360	1440	5358
Rated coil current (mA)	80.0	33.30	16.7	8.96
Must operate voltage	70% max. of rated voltage			
Must release voltage	10% max. of rated voltage			
Maximum voltage	130% at 85°C			
Power consumption (mW Approx.)	400	400	400	430
Other coil voltages	110V DC are available on request			

### RELAY DATA

Relay make	OMRON G2RL Series, Relay other than OMRON make available on request
Contact type	1 C/O (SPDT)
Relay approvals	

### RELAY CONTACT DATA

Contact material	Ag-alloy (Cd free)
Rated current (Resistive)	12A at 250V AC / 24V DC
Maximum switching voltage	440V AC, 300V DC
Contact resistance	100mOhm max.
Operate time	15 ms max.
Release time	DC: 5 ms max.
Insulation resistance	1000 M Ohm min.
Di-electric strength between coil & contact	5000V AC, 50/60 Hz for 1 min
Maximum mechanical operating frequency	18000 operation/hour
Maximum electrical operating frequency	1800 operation/hour (under rated load)

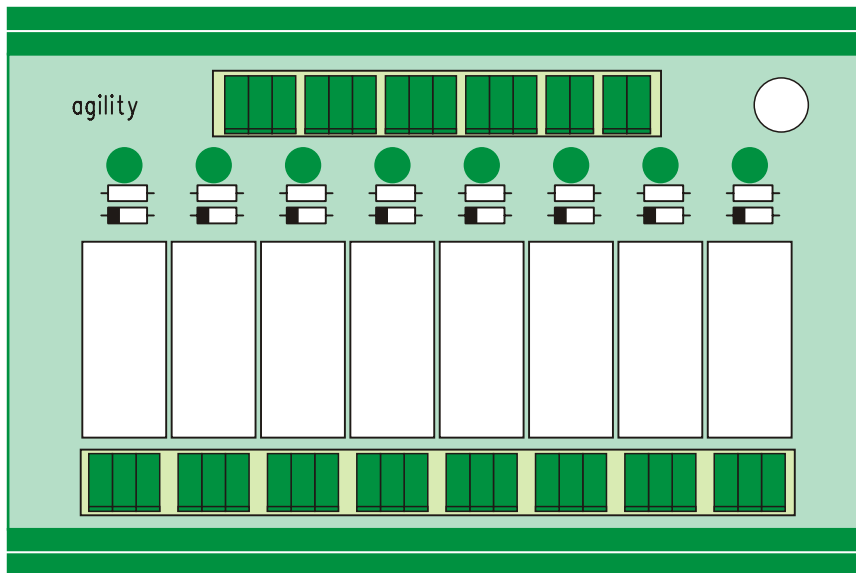
### CONNECTION DATA

Input (Coil) Side	PCB Spring Terminals (Nominal current: 24A, Rated voltage: 250V, Type of connection: Spring connection)
Output (Contact Side)	PCB Spring Terminals (Nominal current: 24A, Rated voltage: 250V, Type of connection: Spring connection)
Cross section of permissible wire	Solid Min/Max: 0.2/4.0 mm <sup>2</sup> Stranded Min/Max: 0.2 / 2.5 mm <sup>2</sup>
Make	Phoenix Contact or equivalent

## ORDERING INFORMATION

1 C/O 24V DC			1 C/O 12V DC		
Article Nos.	Descriptions	Dimension LxWxH (mm)	Article Nos.	Descriptions	Dimension LxWxH (mm)
11100289	AE-01-024D-1-B-S	24 x 90 x 60	11100359	AE-01-012D-1-B-S	24 x 90 x 60
11100288	AE-02-024D-1-B-N-S	40 x 90 x 60	11100358	AE-02-012D-1-B-N-S	40 x 90 x 60
11100287	AE-04-024D-1-B-N-S	74 x 90 x 60	11100357	AE-04-012D-1-B-N-S	74 x 90 x 60
11100243	AE-08-024D-1-B-N-S	141 x 90 x 60	11100356	AE-08-012D-1-B-N-S	141 x 90 x 60
11100286	AE-16-024D-1-B-N-S	267 x 90 x 60	11100355	AE-16-012D-1-B-N-S	267 x 90 x 60

### Layout Diagram of AE-08-024D-1-B-N-S



### Connection Diagram of AE-08-024D-1-B-N-S

