

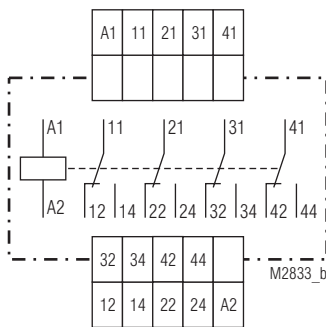
Switching Relay AD 866

Translation
of the original instructions

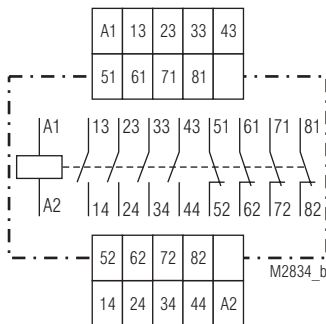


- According to IEC/EN 61810-1
- With lever for manual operation
- Optionally with 2 or 4 changeover contacts or with 4 NO contacts, 4 NC contacts
- Width 45 mm

Circuit Diagrams



AD 866.14



AD 866.19

Approvals and Marking



Applications

For potential separation

Connection Terminals

Terminal designation	Signal description
A1	L / +
A2	N / -
11, 12, 14; 21, 22, 24	Changeover contacts (version .12)
11, 12, 14; 21, 22, 24 31, 32, 34; 41, 42, 44	Changeover contacts (version .14)
13, 14; 23, 24; 33, 34; 43,44	NO contacts (version .19)
51, 52; 61,62; 71, 72; 81, 82	NC contacts (version .19)

Technical Data

Input

Nominal voltage U_N:	AC 24, 60, 110, 230, 240 V DC 24, 60, 110 V
Voltage range:	0,8 ... 1,1 U_N
Nominal consumption:	≤ 2 W / 3,6 VA
Nominal frequency:	50 / 60 Hz
Frequency range:	± 5 %

Output

Contacts

AD 866.12:	2 changeover contacts
AD 866.14:	4 changeover contacts
AD 866.19:	4 NO contacts, 4 NC contacts
Turn-on time:	≤ 30 ms
Turn-off time:	≤ 30 ms
Thermal current I_{th}:	8 A at one contact 5 A at 2 and 3 contacts 4 A at 4 contacts

Switching capacity

to AC 15		
NO contact:	3 A / AC 230 V	IEC/EN 60947-5-1
NC contact:	1 A / AC 230 V	IEC/EN 60947-5-1

Electrical life

to AC 15 at 1 A, AC 230 V:	$> 10^5$ switch. cycles	IEC/EN 60947-5-1
----------------------------	-------------------------	------------------

Permissible switching frequency:

6000 switching cycles / h

Short circuit strength

Max. fuse rating:	10 A gG / gL	IEC/EN 60947-5-1
--------------------------	--------------	------------------

Mechanical life:

30 x 10^6 switching cycles at AC
50 x 10^6 switching cycles at DC

General Data

Operating mode:

Continuous operation

Temperature range

Operation: - 20 ... + 55 °C

Storage: - 20 ... + 55 °C

Altitude: < 2000 m

Clearance and creepage distances

Rated impulse voltage / pollution degree:	4 kV / 2	IEC 60664-1
---	----------	-------------

EMC

Interference resistance: IEC/EN 61000-6-2

Interference emission: IEC/EN 61000-6-3

Degree of protection

Housing: IP 40 IEC/EN 60529

Terminals: IP 20 IEC/EN 60529

Housing: Thermoplastic with V0 behaviour according to UL subject 94

Vibration resistance: Amplitude 0,35 mm frequency 10 ... 55 Hz, IEC/EN 60068-2-6

Climate resistance: Humid heat IEC/EN 60068-2-30

Terminal designation: EN 50005

Wire connection: 2 x 2,5 mm² solid or 2 x 1,5 mm² stranded wire with sleeve DIN 46228-1/-2/-3/-4

Wire fixing: Flat terminals with self-lifting clamping piece IEC/EN 60999-1

Fixing torque: 0,8 Nm

Mounting: DIN rail IEC/EN 60715

Weight: 310 g

Dimensions

Width x Height x Depth: 45 x 77 x 127 mm

Standard Type

AD 866.14 AC 230V 50 / 60 Hz

Article number: 0016599

- Output: 4 changeover contacts
- Nominal voltage U_N : AC 230 V
- Width: 45 mm

Ordering Example

AD 866 .19 AC 230 V 50 / 60 Hz

