Description

easy control relay

SIMPLY easy – Clever switching and controlling
easy is a compact, user-friendly control relay for simple control applications. Applications range from building and domestic automation to machine and plant control.
easy has built-in user-friendly operating elements and an LCD display. Just connect up easy and draw your circuit diagram on the display by pressing the buttons. easy works with make contacts, break contacts, and relays.
Enter your circuit diagram in easy just like you sketched it onpaper. easy has basic and special functions for relay and contactor controls, and lots more.
You can make changes to your circuit just by pressing the buttons. Time consuming rewiring is not necessary.

SIMPLY easy – Applications everywhere
• Building and domestic automation, controllers for lighting, doors, window shutters...
• Controls for ventilators, rotating doors, greenhouses, exterior lighting, window controllers, shop display lighting control...
• Controls for temperature, ventilation and brightness levels...
• Controls for machines and plant, presses, conveyor belts, oscillating conveyors, sorters, pumps...

SIMPLY easy – Open for change
The easy circuit diagram can be entered and modified just by pressing the buttons.
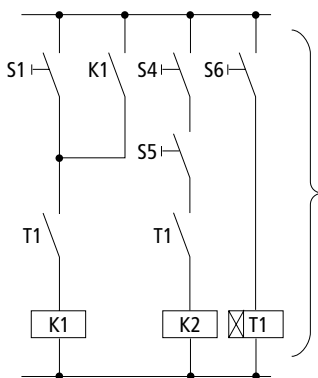
SIMPLY easy – Everything built in
(some features depend on the type)
• An LCD display for showing the circuit diagram
• Operation buttons for wiring, value entry or switching
• 4 relay outputs with max. 10 A output current or 0.5 A transistor outputs up to 2 A, suitable for parallel connection
• Circuit diagrams can be created with make contacts, break contacts, relays, series and parallel circuits
• Voltage supply (24 V DC or 115/230 V AC)
• 8/12 digital inputs, expandable to 24 digital inputs (115/230 V AC or 24 V DC)
• 2 analog inputs (DC models only, two digital inputs can also be used for analog signals)
• Non-volatile circuit diagram and parameter memory (EEPROM) (retentive data) (EEPROM)
• Display of message texts, setpoint and actual values for timers, counters, time and analog values
• Socket for external memory card or PC interface cable
• Time switch with time and weekday(s)
• DST setting (summer time/winter time change)
• Protect your circuit diagram and settings against unauthorized changes with a password to protect your know-how
• Optional debounce (input delay) function (reliable switching with fast signals)
• Selectable menu languages, 5 and 10 languages (D, GB, F, I, E, for EASY600 also P, NL, S, PL,TR)
• 4 cursor buttons can also be used as input contacts in the easy circuit diagra (built in manual operation mode)
• Local or remote expansion of inputs and outputs. Remote expansion by means of two wire cable up to 30 m between basic unit and expansion unit
• Large ambient temperature range from –25 °C to +55 °C

Description

SIMPLY easy – Compact and practical
easy has a 45 mm as a standard dimension (4/6 space units) for installing in standard domestic distribution panels. easy can be clipped to a top-hat rail or screwed to a mounting plate for rugged environments. easy's dimensions are 71.5 × 90 × 53 mm or 107.5 × 90 × 53 mm.

Example:
Remote coupling with EASY200-EASY to a two wire cable
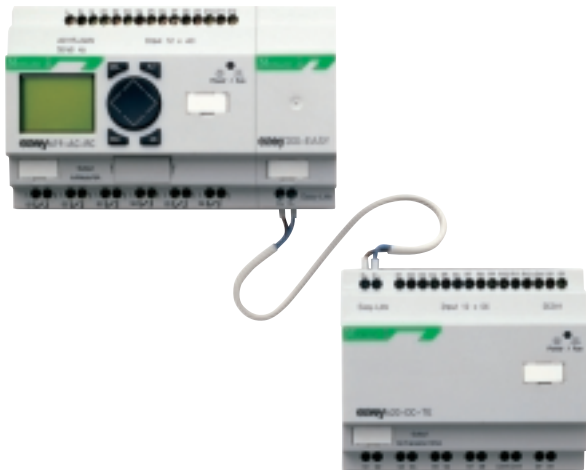
Simply network
Connect easy to a data bus as simply as you can expand it.
Connect the expansion unit for the AS-Interface and easy can already communicate with the bus master via the AS-Interface.
PROFIBUS-DP is just as simple. easy is always a slave on the bus.

PC software
You can also create easy programs on a PC and download them to easy with the optional PC interface cable. Create, store, simulate and document the circuit diagram offline.
Three display formats are available: DIN EN, ANSI or the easy display.
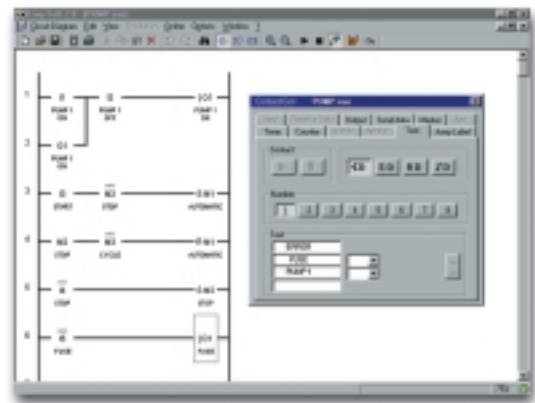
SIMPLY easy – More than 20 functions in a single device
- Interconnect make contacts and break contacts
- 3 contacts can be connected in series
- Up to 41 circuits (121 for EASY600) can be connected in parallel
- Switch relay coils
- Create switching functions such changeover switches, self-latching relays, single pulse relays, start-delta starters
- Create timing functions such as on-delayed, on-delayed with random switching, off-delayed, off-delayed with random switching, single pulse, flashing, up/down counter
- Time switch
- Compare analog values
- Output texts, setpoint and actual values
- Store retentively the actual values of timing relays, counters, markers, operating hours counters.
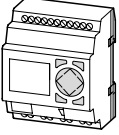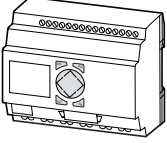
Simply expand
Connect the expansion unit to the basic unit using the connector to add up to 24 inputs and 16 outputs.
The coupling device enables the expansion unit to be expanded up to 30 m away.
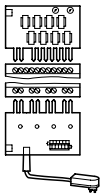
easy Control Relay
Basic Units, Expansion Units

|		Description	Type Article No.	Price See Price List	Std. pack
Basic Units					
	24 V DC, Retentive	• 8 digital inputs (2 inputs also usable as analog inputs) • 4 relay outputs • LCD display • Operating buttons • Screw terminals	**EASY412-DC-R** 202403		1 off
		Features as per EASY 412-DC-R plus built-in time switch	**EASY412-DC-RC** 202404		
		Features as per EASY412-DC-RC, without keypad an LCD display	**EASY412-DC-RCX** 221596		
		• 8 digital inputs (2 inputs also usable as analog inputs) • 4 transistor outputs • LCD display • Operating buttons • Screw terminals • Time switch	**EASY412-DC-TC** 207808		
		Features as per EASY412-DC-TC, without keypad an LCD display	**EASY412-DC-TCX** 212307		
		• 12 digital inputs (2 inputs also usable as analog inputs) • 8 transistor outputs • LCD display • Operating buttons • Screw terminals • Time switch	**EASY620-DC-TC** 212309		
		• 12 digital inputs (2 inputs also usable as analog inputs) • 8 transistor outputs • LCD display • Operating buttons • Screw terminals • Time switch • Expandable with EASY.....E	**EASY621-DC-TC** 218719		
		Features as per EASY621-DC-TC, without keypad an LCD display	**EASY621-DC-TCX** 212311		
	115/230 V AC	• 8 digital inputs, 115/230 V AC • 4 relay outputs • LCD display • Operating buttons • Screw terminals	**EASY412-AC-R** 202405		1 off
		Features as per EASY 412-AC-R plus built-in time switch	**EASY412-AC-RC** 202406		
		Features as per EASY412-AC-RC, without keypad an LCD display	**EASY412-AC-RCX** 212308		
	115/230 V AC, Retentive	• 12 digital inputs, 115/230 V AC • 6 relay outputs • LCD display • Operating buttons • Screw terminals • Time switch	**EASY618-AC-RC** 212310		
		• 12 digital inputs, 115/230 V AC • 6 relay outputs • LCD display • Operating buttons • Screw terminals • Time switch • Expandable with EASY.....E	**EASY619-AC-RC** 218721		
		Features as per EASY619-AC-RC, without keypad an LCD display	**EASY619-AC-RCX** 212312		
Expansion units					
	24 V DC	• 12 digital inputs • 8 transistor outputs • With connector	**EASY620-DC-TE** 212313		1 off
	115/230 V AC	• 12 digital inputs, 115/230 V AC • 6 relay outputs • With connector	**EASY618-AC-RE** 212314		
	Coupling unit	• Coupling unit for connecting to an EASY619/621 basic unit • Terminals for remote expansion up to 30 m to the expansion unit • With connector	**EASY200-EASY** 212315		
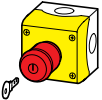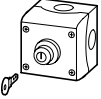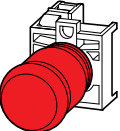
easy Control Relay
Networking, Accessories, Documentation

easy Control Relay

		Description	Type Article No.	Price See Price List	Std. pack
Networking					
	AS-Interface	• Linked directly to EASY619/621 • AS-Interface connection • Slave • 4 inputs, 4 outputs, 4 parameter bits • Addressable, 0 to 31	**EASY205-ASI** 221598		1 off
	PROFIBUS-DP	• Linked directly to EASY619/621 • PROFIBUS-DP slave	**EASY204-DP** 212316		1 off
Accessories					
	Software	CD, menu in 6 languages Installation WIN 95, 98, WIN NT	**EASY-SOFT** 202407		1 off
	Memory card	8K memory card for storing the entire easy circuit diagram for EASY412	**EASY-M-8K** 202408		
		16K memory card for storing the entire easy circuit diagram for EASY6..	**EASY-M-16** 212317		
	Connection cable	2 m, for connecting to 9-pin serial interface on a PC with interface electronics circuit	**EASY-PC-CAB** 202409		
	Input/output simulator	Simulator with power supply unit, 115/230 V AC / output 24 V DC, suitable for EASY412-DC...	**EASY412-DC-SIM** 212318		
	Fixing feet	For screw fixing on mounting plate, 3 fixing feet per EASY412, 3 fixing feet per EASY6.., 2 fixing feet per EASY200-EASY	**ZB4-101-GF1** 061360		9 off
	Switched-mode power supply unit	Primary-switched mode, stabilised 2, suitable for parallel connection to increase power output or for redundant operation at rated power • Rated input voltage 50/60 HZ: 115/230 V AC • Rated output voltage (residual ripple): 24 V DC (± 3%) • Rated output current: 1.25 A	**EASY400-POW** 212319		1 off
Documentation					
	Manual for easy control relay				
		German	**AWB2528-1304-D** 205375		1 off
		English	**AWB2528-1304-GB** 205481		
		French	**AWB2528-1304-F** 205482		
		Italian	**AWB2528-1304-I** 205483		
		Spanish	**AWB2528-1304-E** 205484		
	Training guide for easy control relay				
		German	**AWB2528-1316-D** 205376		1 off
		English	**AWB2528-1316-GB** 205485		
		French	**AWB2528-1316-F** 205486		
		Italian	**AWB2528-1316-I** 205487		
		Spanish	**AWB2528-1316-E** 205488		

RMQ Titan
Range Selection

	Button plate	Contacts M = make contact, B = break contact, ⊖ = Safety function by means of positive opening to IEC/EN 60 947-5-1		Colour Plunger	Type Article No.	Price See Price List	Std. pack

Complete units for surface mounting to IP 66

Emergency-stop actuator, tamper-proof to ISO 13 850/EN 418
Pull to release
Max. configuration: 3x M22-(C)K...

| | | 1 M | 1 B | ● | M22-PV-KC11/I 216525 | | 2 off |

Key-release mushroom buttons

With 1 key
MS 1 lock mechanism

| | – | 1 M | 1 B ⊖ | ● / ● | M22-PVS/KC11/IY 216523 | | 2 off |

Key-operated buttons

With two keys,
Two positions, stay-put
MS 1 lock mechanism

| | – | 1 M | 1 B ⊖ | ● | M22-WRS/KC11/I 216526 | | 2 off |

Push-button

Flush

| | ◉ | – | 1 B ⊖ | – | M22-D-R-X0/K01 216510 | | 5 off |
| | ● (I) | 1 M | – | – | M22-D-G-X1/K10 216512 | | 5 off |

Selector switch, thumb-grip black

Stay-put/spring-return function can be changed using M22-XC-. coding adapters
Two positions, stay-put

| | – | 1 M | – | – | M22-WRK/K10 216518 | | 5 off |

Complete units for front mounting, IP 66

Emergency-stop actuator, tamper-proof to ISO 13 850/EN 418
Yellow base
Pull to release

| | – | – | 1 B ⊖ | ● | M22-PV/K01 216515 | | 5 off |

IVS top-hat rail adapter

Front fixing

| | | | | | M22-IVS 216400 | | 1 off |

Notes   Other products are available in the Moeller catalogue supplement, NK 1160-1033 GB

easy Control Relay
Technical Data

easy Control Relay

		EASY200-EASY	EASY412-...	EASY6..-...
General				
Standards and regulations		EN 55 011, EN 55 022, IEC/EN 61 000-4, IEC 60 068-2-6, IEC 60 068-2-27		
Dimensions	W × H × D [mm]	35.5 × 90 × 53 (2 space units)	71.5 × 90 × 53 (4 space units)	107.5 × 90 × 53 (6 space units)
Weight		70 g	200 g	300 g
Mounting		Top-hat rail, DIN 50 022, 35 mm or screw fixing with ZB 4-101-GF1 fixing feet (accessories)		
Ambient temperature				
Operating ambient temperature Horizontal/vertical mounting		−25 to +55 °C Cold to IEC 60 068-2-1 Heat to IEC 60 68-2-2		
Condensation		Prevent condensation with suitable measures		
LCD display (clearly visible)		0 to +55 °C		
Storage/transport temperature		−40 to +70 °C		
Relative humidit		5 to 95%, non-condensing (IEC 60 068-2-30)		
Air pressure (operation)		795 to 1080 hPa		
Corrosion resistance		SO_2 10 cm³/m³, 4 days (IEC 60 068-2-42)		
		H_2S 1 cm³/m³, 4 days (IEC 60 068-2-43)		
Mechanical environmental conditions				
Pollution degree		2	2	2
Degree of protection (EN 50 178, IEC 60 529, VBG4)		IP 20	IP 20	IP 20
Oscillations (IEC 60 068-2-6)		10 to 57 Hz (constant amplitude 0.15 mm) 57 to 150 Hz (constant acceleration 2 g)		
Shock (IEC 60 068-2-27)		18 shocks (semi-sinusoidal 15 g/11 ms)		
Dropping (IEC 60 068-2-31)		Drop height 50 mm		
Free fall, in packaging (IEC 60 068-2-32)		1 m		
Electromagnetic compatibility (EMC)				
Electrostatic discharge (IEC/EN 61 000-4-2, Level 3)		8 kV air discharge 6 kV contact discharge		
Electromagnetic fields (IEC/EN 61 000-4-3)		Field strength 10 V/m		
Emitted interference, interference immunity		EN 55 011 Class B, EN 55 022 Class B		
Burst (Level 3) (IEC/EN 61 000-4-4)	Power cables	2 kV		
	Signal lines	2 kV		
High-energy pulses (surge) easy-AC (IEC/EN 61 000-4-5)		2 kV power cables symmetrical		
High-energy pulses (surge) easy-DC (IEC/EN 61 000-4-5, Level 2)		0.5 kV power cables symmetrical		
Dielectric strength				
Measurement of the air clearance and creepage distance		EN 50 178, UL 508, CSA C22.2, No 142		
Dielectric strength		EN 50 178		
Tools and cable cross-sections				
Single-core		min. 0.2 mm², AWG 24 max. 4 mm², AWG 12		
Flexible with ferrule		min. 0.2 mm², AWG 24 max. 2.5 mm², AWG 13		
Slot-head screwdriver, width		3.5 × 0.8 mm		
Tightening torque		0.5 – 0.7 Nm		
Backup/accuracy of real-time clock (only with easy-C)				
Clock battery back-up	at 25 °C	–	Normally 64 h	
	at 40 °C	–	Normally 24 h	
Accuracy of the real-time clock		–	Normally ± 5 s/day, ~ ± 0.5 h/year	
Repetition accuracy of timing relays				
Accuracy of timing relays			± 1 % of value	
Resolution	Range "s"	–	10 ms	
	Range "M:S"	–	1 s	
	Range "H:M"	–	1 min.	
Retentive memory				
Write cycles of the retentive memory		–	≧ 100 000	

easy Control Relay
Technical Data

	EASY412-AC-...	EASY618/619-AC-RC(X) EASY618-AC-RC
Power supply		
Rated voltage (sinusoidal)	115/120/230/240 V AC +10/–15 %	100/110/115/120/230/240 V AC +10/–15
Permissible range	90 to 264 V AC	85 to 264 V AC
Frequency, rated value, tolerance	50/60 Hz, ± 5 %	50/60 Hz, ± 5 %
Input current consumption		
at 115/120 V AC 60 Hz	Normally 40 mA	Normally 70 m
at 230/240 V AC 50 Hz	Normally 20 mA	Normally 35 m
Voltage dips (IEC/EN 61 131-2)	20ms	20ms
Heat dissipation		
at 115/120 V AC	Normally 5 VA	Normally 10 VA
at 230/240 V AC	Normally 5 VA	Normally 10 VA

	EASY412-DC-...	EASY620/621-DC-TC(X) EASY620-DC-TE
Power supply		
Rated voltage		
Rated value	24 V DC, –15 %, +20 %	24 V DC, –15 %, +20 %
Permissible range	20.4 to 28.8 V DC	20.4 to 28.8 V DC
Residual ripple	$\leqq$ 5 %	$\leqq$ 5 %
Input current at 24 V DC	Normally 80 mA	Normally 140 m
Voltage dips (IEC/EN 61 131-2)	10ms	10ms
Power dissipation at 24 V DC	Normally 2 W	Normally 5 W

	EASY412-AC-...	EASY618/619-AC-RC(X) EASY618-AC-RE
Digital inputs 115/230 V AC		
Number	8	12
Status display	LCD display (if provided)	LCD display (if provided)
Electrical isolation		
To power supply	No	No
Between each other	No	No
To the outputs	Yes	Yes
Rated voltage L (sinusoidal)		
0 signal	0 to 40 V AC	0 to 40 V AC
1 signal	79 to 264 V AC	79 to 264 V AC
Rated frequency	50/60 Hz	50/60 Hz
Input current on 1 signal R1 to R12, I1 to I6 (EASY 618/619 also I9 to I12)	6 × 0.5 mA at 230 V AC 50 Hz 6 × 0.25 mA at 115 V AC 60 Hz	10 (12) × 0.5 mA at 230 V AC 50 Hz 10 (12) × 0.25 mA at 115 V AC 60 Hz
Input current on 1 signal I7, I8	2 × 6 mA at 230 V AC 50 Hz 2 × 4 mA at 115 V AC 60 Hz	2 × 6 mA at 230 V AC 50 Hz 2 × 4 mA at 115 V AC 60 Hz
Delay time for 0 to 1 and 1 to 0		
Debounce ON (I1 to I6/I12)	80 ms (50 Hz), 66⅔ ms (60 Hz)	80 ms (50 Hz), 66⅔ ms (60 Hz)
Debounce OFF (I1 to I6/I9 to I12)	20 ms (50 Hz), 16⅔ ms (60 Hz)	20 ms (50 Hz), 16⅔ ms (60 Hz)
Delay time I7, I8 for 1 to 0		
Debounce ON	160 ms (50 Hz), 150 ms (60 Hz)	80 ms (50 Hz), 66⅔ ms (60 Hz)
Debounce OFF	100 ms (50 Hz/60 Hz)	20 ms (50 Hz), 16⅔ ms (60 Hz)
Delay time I7, I8 for 0 to 1		
Debounce ON	80 ms (50 Hz), 66⅔ ms (60 Hz)	80 ms (50 Hz), 66⅔ ms (60 Hz)
Debounce OFF	20 ms (50 Hz), 16⅔ ms (60 Hz)	20 ms (50 Hz), 16⅔ ms (60 Hz)
Max. permissible cable length (per input)		
R1 to R12, I1 to I6 (with EASY 618/619 also I9 to I12)	Normally 40 m	Normally 40 m
I7, I8	Normally 100 m	Normally 100 m

easy Control Relay
Technical Data

easy Control Relay

	EASY412-DC-...	EASY620/621-DC-TC(X) EASY620-TC-TE
Digital inputs 24 V AC		
Number	8, 2 of which (I7,I8) can be used as analog inputs	12, 2 of which (I7,I8) can be used as analog inputs, with basic unit
Status display	LCD display (if provided)	LCD display (if provided)
Electrical isolation		
To power supply	No	No
Between each other	No	No
To the outputs	Yes	Yes
24 V DC power supply		
Rated value	24 V DC	24 V DC
0 signal	< 5.0 V DC I1 to I8	< 5.0 V DC I1 to I12, R1 to R12
1 signal	> 15.0 V DC I1 to I6	> 15.0 V DC I1 to I6, I9 to I12, R1 to R12
Input current on 1 signal R1 to R12, I1 to I6 (EASY 620/621 also I9 to I12)	3.3 mA at 24 V DC	3.3 mA at 24 V DC
Input current on 1 signal I7, I8	2.2 mA at 24 V DC	2.2 mA at 24 V DC
Delay time for 0 to 1		
Debounce ON	20 ms	20 ms
Debounce OFF	Normally 0.25 ms (I1 to I6)	Normally 0.25 ms (I1 to I6, I9 to I12)
Delay time for 1 to 0		
Debounce ON	20 ms	20 ms
Debounce OFF	Normally 0.4 ms, I1 to I6 Normally 0.2 ms I7, I8	Normally 0.4 ms I1 to I6, I9 to I12 Normally 0.2 ms I7, I8
Cable length (unshielded)	100 m	100 m

	EASY412-DC...	EASY620/621-DC-TC(X)
Analog inputs		
Number	2	2
Electrical isolation		
To power supply	No	No
To the digital inputs	No	No
To the outputs	Yes	Yes
Input type	DC voltage	DC voltage
Signal range	0 to 10 V DC	0 to 10 V DC
Resolution analog	0.1 V	0.1 V
Resolution digital	0.1	0.1
Input impedance	11.2 kΩ	11.2 kΩ
Accuracy of		
Two easy devices	± 3 % of actual value	
Within a single device	± 2 % of actual value (I7, I8), ± 0.12 V	
Conversion time, analog/digital	Debounce ON: 20 ms Debounce OFF: every cycle	
Input current	< 1 mA	
Cable length (shielded)	30 m	

easy Control Relay
Technical Data

	EASY412-...-R...	EASY618/619-R...
Relay outputs		
Number	4	6
Type of outputs	Relay	
In groups of	1	
Parallel connection of outputs to increase current rating	Not permissible	
Circuit-breaker B 16 or fuse 8 AT	Miniature circuit-breaker B16 or 8 A fuse (slow)	
Potential isolation to mains supply, inputs	Yes 300 V_{eff} AC (safe isolation) 600 V_{eff} AC (Basic isolation)	
Mechanical lifespan (operations)	10×10^6	
Contacts relays		
Conventional free air thermal current	8 A (10 A UL)	
Recommended for load	> 500 mA, 12 V AC/DC	
Short-circuit resistance cos 1	16 A characteristic B (B16) at 600 A	
Short-circuit resistance cos 0.5 to 0.7	16 A characteristic B (B16) at 900 A	
Rated impulse withstand voltage U_{imp} contact coil	6 kV	
Rated insulation voltage U_i	250 V AC	
Rated operational voltage U_e	250 V AC	
Safe isolation to EN 50 178 between coil and contact	250 V AC	
Safe isolation to EN 50 178 between two contacts	250 V_{eff}	
Making capacity		
AC-15 250 V AC, 3 A (600 Ops/h)	300 000 switching operations	
DC-13 L/R $\leqq$150 ms 24 V DC, 1 A (500 Ops/h)	200 000 switching operations	
Breaking capacity		
AC-15 250 V AC, 3 A (600 Ops/h)	300 000 switching operations	
DC-13 L/R $\leqq$150 ms 24 V DC, 1 A (500 Ops/h)	200 000 switching operations	
Filament lamp load		
1000 W at 230/240 V AC	25 000 switching operations	
500 W at 115/120 V AC	25 000 switching operations	
Fluorescent tube		
10×58 W at 230/240 V AC		
With ballast	25 000 switching operations	
Uncompensated	25 000 switching operations	
1×58 W at 230/240 V AC		
Conventional, compensated	25 000 switching operations	
Operating frequency, relays		
Device lifetime	10 million (10^7)	
Mechanical switching frequency	10 Hz	
Resistive lamp load	2 Hz	
Inductive load	0.5 Hz	

	EASY400-POW
Input voltage	115, 230 V AC
Range	85 to 264 V AC
Mains frequency	50/60 Hz
Range	47 to 63 Hz
Output voltage (tolerance)	24 V DC (± 3%)
Output current	1.25 A
Overcurrent limit	From 1.4 A
Not adversely affected by no-load operation and protected against short-circuit	Yes
Terminals — Single-core	0.2 to 4 mm², AWG 24 to 12
Terminals — Flexible with ferrule	0.2 to 2.5 mm², AWG 24 to 13
Emitted interference, interference immunity	EN 50 081-1 Class B; 50 082-2
Potential isolation, primary/secondary	Yes, SELV (VDE 0100 T410; IEC 364-4-41)
Protection class	IP20
Ambient temperature	−25 to +55°C
Storage temperature	−40 to +70 °C

easy Control Relay
Technical Data

easy Control Relay (side tab)

	EASY412-DC-T…	EASY620/621-DC-T…
Transistor outputs		
Number	4	8
Contacts	Semiconductors	Semiconductors
Rated voltage U_e	24 V DC	24 V DC
Permissible range	20.4 to 28.8 V DC	20.4 to 28.8 V DC
Residual ripple	$\leqq 5$ %	$\leqq 5$ %
Supply current		
0 signal	Normally 9 mA, max. 16 mA	Normally 18 mA, max. 32 mA
1 signal	Normally 12 mA, max. 22 mA	Normally 24 mA, max. 44 mA
Reverse polarity protection	Yes	
Potential isolation to inputs, power supply	Yes	
Rated current I_e for 1 signal	max. 0.5 A DC	
Lamp load	5 watts without R_V	
Residual current with 0 signal per channel	< 1.0 mA	
Max. output voltage		
with 0 signal with external load < 10 MΩ	2.5 V	
with 1 signal, I_e = 0.5 A	$U = U_e - 1$ V	
Short-circuit protection	Yes, (detected via diagnostics input I16, I15; R15; R16)	
Short-circuit tripping current for $R_a \leqq 10$ mΩ	0.7 A $\leqq I_e \leqq 2$ A	
Max. total short-circuit current	8 A	16 A
Peak short-circuit current	16 A	32 A
Thermal cutout	Yes	Yes
Maximum operating frequency at constant resistive load $R_L < 100$ kΩ: operations per hour	40 000 (depends on circuit diagram and load)	
Parallel connection of outputs with resistive load; inductive load with external suppression circuit, combination within a group	Group 1: Q1 to Q4	Group 1: Q1 to Q4, S1 to S4 Group 2: Q5 to Q8, S5 to S8
Number of outputs	max. 4	max. 4
Total maximum current	2.0 A	
Status display of the outputs	LCD display (if provided)	LCD display (if provided)
Approvals	currently UL/CSA approved; others in preparation: EASY412-DC-R EASY412-DC-RC EASY412-DC-TC EASY412-DC-TCX EASY412-AC-R EASY412-AC-RC EASY412-AC-RX EASY620-DC-TC EASY618-AC-RC	

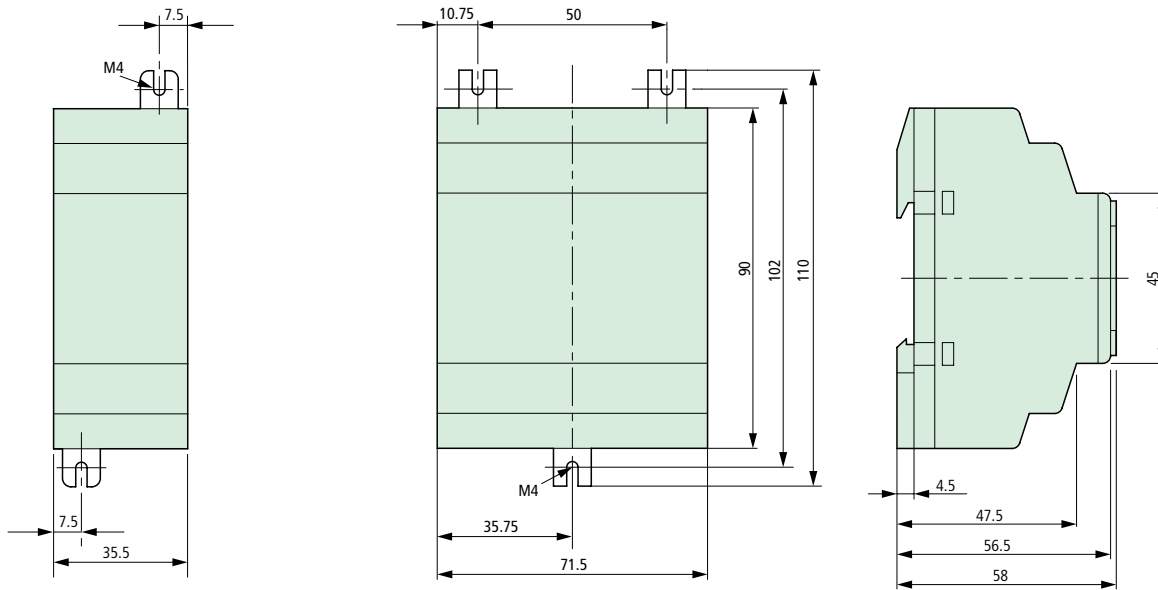| **Notes**	For more detailed technical specifications refer to technical data in AWB 2528-1304-GB

easy Control Relay
Dimensions

Control Relay

EASY200-EASY

EASY4...

EASY618-...
EASY619-...
EASY620-...
EASY621-...