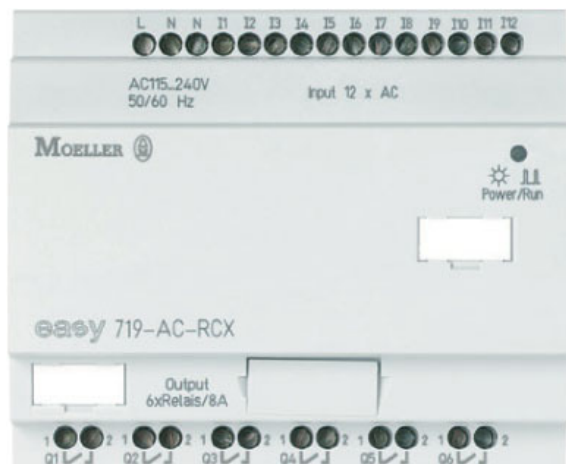


Type: **EASY719-AC-RCX**

Article No.: **274116**



### Ordering information

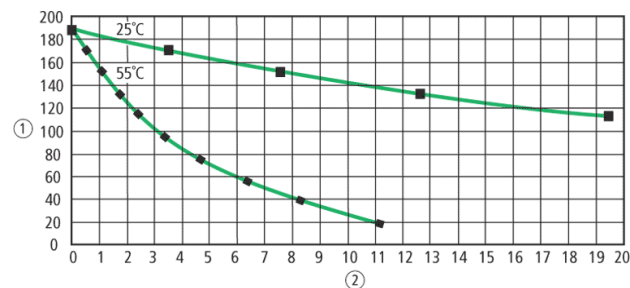
|               |  |          |              |
|---------------|--|----------|--------------|
| Relay outputs |  | Quantity | 6            |
| Power supply  |  | V DC     | 115/230 V AC |

### Description

- 12 digital inputs
- 6 relay outputs
- Screw terminals
- Timer
- Can be expanded using easy expansion units

### Notes concerning the product group

Backup of real-time clock (only for appropriate devices)



① Backup time (hours)

② Operating time (years)

| General                                                                    |                         |                                 |                                                                                                  |
|----------------------------------------------------------------------------|-------------------------|---------------------------------|--------------------------------------------------------------------------------------------------|
| Standards                                                                  |                         |                                 | EN 55011, EN 55022, IEC/EN 61000-4, IEC 60068-2-6, IEC 60068-2-27                                |
| Dimensions (W × H × D)                                                     |                         | mm                              | 107.5 × 90 × 58 (6 PE)                                                                           |
| Weight                                                                     |                         | kg                              | 0,3                                                                                              |
| Mounting                                                                   |                         |                                 | Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories) |
| Terminal capacities                                                        |                         |                                 |                                                                                                  |
| Solid                                                                      |                         | mm <sup>2</sup>                 | 0.24 (AWG 22 – 12)                                                                               |
| Flexible with ferrule                                                      |                         | mm <sup>2</sup>                 | 0.22.5 (AWG 22 – 12)                                                                             |
| Standard screwdriver                                                       |                         | mm                              | 3.5 × 0.8                                                                                        |
| Max. tightening torque                                                     |                         | Nm                              | 0,6                                                                                              |
| Climatic environmental conditions                                          |                         |                                 |                                                                                                  |
| Operating ambient temperature                                              |                         | °C                              | –25 to 55, cold as per IEC 60068-2-1, heat as per IEC 60068-2-2                                  |
| Condensation                                                               |                         |                                 | Take appropriate measures to prevent condensation                                                |
| LCD display (clearly legible)                                              |                         | °C                              | 055                                                                                              |
| Storage                                                                    |                         | °C                              | –40/+70                                                                                          |
| Relative humidity, non-condensing (IEC/EN 60068-2-30)                      |                         | %                               | 5 – 95                                                                                           |
| Air pressure (operation)                                                   |                         | hPa                             | 795 – 1080                                                                                       |
| Corrosion resistance                                                       |                         |                                 |                                                                                                  |
| IEC/EN 60068-2-42                                                          | 4 days SO <sub>2</sub>  | cm <sup>3</sup> /m <sup>3</sup> | 10                                                                                               |
| IEC/EN 60068-2-43                                                          | 4 days H <sub>2</sub> S | cm <sup>3</sup> /m <sup>3</sup> | 1                                                                                                |
| Ambient conditions, mechanical                                             |                         |                                 |                                                                                                  |
| Pollution degree                                                           |                         |                                 | 2                                                                                                |
| Degree of protection (IEC/EN 60529)                                        |                         |                                 | IP 20                                                                                            |
| Vibrations (IEC/EN 60068-2-6)                                              |                         |                                 |                                                                                                  |
| Constant amplitude 0.15 mm                                                 |                         | Hz                              | 10 – 57                                                                                          |
| Constant acceleration 2 g                                                  |                         | Hz                              | 57 – 150                                                                                         |
| Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms |                         | Impacts                         | 18                                                                                               |
| Drop to IEC/EN 60068-2-31                                                  | Drop height             | mm                              | 50                                                                                               |
| Free fall, packaged (IEC/EN 60068-2-32)                                    |                         | m                               | 1                                                                                                |

|                                                               |       |      |                                             |
|---------------------------------------------------------------|-------|------|---------------------------------------------|
| Mounting position                                             |       |      | horizontal/vertical                         |
| <b>Electromagnetic compatibility (EMC)</b>                    |       |      |                                             |
| Electrostatic discharge (IEC/EN 61000-4-2, Level 3, ESD)      |       |      |                                             |
| Air discharge                                                 |       | kV   | 8                                           |
| Contact discharge                                             |       | kV   | 6                                           |
| Electromagnetic fields (IEC/EN 61000-4-3, RFI)                |       | V/m  | 10                                          |
| Radio interference suppression (EN 55011)                     |       |      | EN 55011 Class B, EN 55022 Class B          |
| Burst pulses (IEC/EN 61000-4-4, level 3)                      |       |      |                                             |
| Supply cables                                                 |       | kV   | 2                                           |
| Signal lines                                                  |       | kV   | 2                                           |
| High-energy pulses (surge) (IEC/EN 61000-4-5)                 |       | kV   | 2 (supply cables, symmetrical, EASY...AC)   |
| High-energy pulses (surge) (IEC/EN 61000-4-5, level 2)        |       | kV   | 0.5 (supply cables, symmetrical, EASY...DC) |
| Immunity to line-conducted interference to (IEC/EN 61000-4-6) |       | V    | 10                                          |
| <b>Insulation resistance</b>                                  |       |      |                                             |
| Clearance in air and creepage distances                       |       |      | EN 50178, UL 508, CSA C22.2, no. 142        |
| Insulation resistance                                         |       |      | EN 50178                                    |
| <b>Backup/accuracy of the real-time clock</b>                 |       |      |                                             |
| Accuracy of the real-time clock                               |       |      | Normally $\pm 5$ ( $\pm 0.5$ h/year)        |
| <b>Repetition accuracy of timing relays</b>                   |       |      |                                             |
| Accuracy of timing relays (of values)                         |       | %    | $\pm 1$                                     |
| Resolution                                                    |       |      |                                             |
| Range "S"                                                     |       | ms   | 10                                          |
| Range "M:S"                                                   |       | s    | 1                                           |
| Range "H:M"                                                   |       | min  | 1                                           |
| <b>Retentive memory</b>                                       |       |      |                                             |
| Write cycles of the retentive memory                          |       |      | 1000000 ( $10^6$ )                          |
| <b>Power supply</b>                                           |       |      |                                             |
| Rated operational voltage                                     | $U_e$ | V    | 100/110/115/120/230/240 AC (+10/-15 %)      |
| Admissible range                                              |       | V AC | 85 – 264                                    |
| Frequency                                                     |       | Hz   | 5060 ( $\pm 5\%$ )                          |

|                                                         |  |      |                          |
|---------------------------------------------------------|--|------|--------------------------|
| Input current                                           |  |      |                          |
| at 115/120 V AC 60 Hz                                   |  | mA   | Normally 70              |
| at 230/240 V AC 50 Hz                                   |  | mA   | Normally 35              |
| Voltage dips (IEC/EN 61131-2)                           |  | ms   | 20                       |
| Power loss                                              |  |      |                          |
| at 115/120 V AC                                         |  | VA   | Normally 10              |
| at 115/230 V AC                                         |  | VA   | Normally 10              |
| <b>Digital inputs 115/230 V AC</b>                      |  |      |                          |
| Number                                                  |  |      | 12                       |
| Status indication                                       |  |      | LCD-display (if present) |
| Potential isolation                                     |  |      |                          |
| From power supply                                       |  |      | No                       |
| Between digital inputs                                  |  |      | No                       |
| From the outputs                                        |  |      | Yes                      |
| Rated voltage L (sinusoidal)                            |  |      |                          |
| On 0 signal                                             |  | V AC | 0 – 40                   |
| On 1 signal                                             |  | V AC | 79 – 264                 |
| Rated frequency                                         |  | Hz   | 50 – 60                  |
| Delay time                                              |  |      |                          |
| Delay time (0 – 1/1 – 0) I1 to I6, I9 to I12, R1 to R12 |  |      |                          |
| Debounce ON 50/60 Hz                                    |  | ms   | 8066                     |
| Debounce OFF 50/60 Hz                                   |  | ms   | 2016                     |
| Delay time I7, I8 (1 – 0)                               |  |      |                          |
| Debounce ON 50/60 Hz                                    |  | ms   | 8066                     |
| Debounce OFF 50/60 Hz                                   |  | ms   | 2016                     |
| Delay time I7, I8 (0 – 1)                               |  |      |                          |
| Debounce ON 50/60 Hz                                    |  | ms   | 8066                     |
| Debounce OFF 50/60 Hz                                   |  | ms   | 2016                     |
| Max. admissible cable length (per input)                |  |      |                          |
| I1 to I6                                                |  | m    | 40                       |
| I7, I8                                                  |  | m    | Normally 100             |
| I9 to I12                                               |  | m    | Normally 40              |
| <b>Relay outputs</b>                                    |  |      |                          |
| Number                                                  |  |      | 6                        |
| Outputs in groups of                                    |  |      | 1                        |
| Parallel switching of outputs for increased output      |  |      | Not permissible          |

|                                                                           |            |               |                                                  |
|---------------------------------------------------------------------------|------------|---------------|--------------------------------------------------|
| Protection of an output relay                                             |            |               | Miniature circuit-breaker B16 or fuse 8 A (slow) |
| Potential isolation                                                       |            |               |                                                  |
| From power supply                                                         |            |               | Yes                                              |
| From the inputs                                                           |            |               | Yes                                              |
| From the PC interface, memory card NET network, EASY-Link                 |            |               | No                                               |
| Safe isolation                                                            |            | V AC          | 300                                              |
| Basic insulation                                                          |            | V AC          | 600                                              |
| Lifespan, mechanical                                                      | Operations | $\times 10^6$ | 10                                               |
| Contacts                                                                  |            |               |                                                  |
| Conventional thermal current (10 A UL)                                    |            | A             | 8                                                |
| Recommended for load: 12 V AC/DC                                          |            | mA            | > 500                                            |
| Short-circuit-proof $\cos \phi = 1$ , characteristic B16 at 600 A         |            | A             | 16                                               |
| Short-circuit-proof $\cos \phi = 0.5$ to 0.7, characteristic B16 at 900 A |            | A             | 16                                               |
| Rated impulse withstand voltage $U_{imp}$ of contact coil                 |            | kV            | 6                                                |
| Rated operational voltage                                                 | $U_e$      | V AC          | 250                                              |
| Rated insulation voltage                                                  | $U_i$      | V AC          | 250                                              |
| Safe isolation to EN 50178 between coil and contact                       |            | V AC          | 300                                              |
| Safe isolation to EN 50178 between 2 contacts                             |            | V AC          | 300                                              |
| Making capacity                                                           |            |               |                                                  |
| AC-15, 250 V AC, 3 A (600 Ops./h)                                         | Operations |               | 300000                                           |
| DC-13 L/R 150 ms 24 V DC, 1 A (500 Ops./h)                                | Operations |               | 200000                                           |
| Breaking capacity                                                         |            |               |                                                  |
| AC-15, 250 V AC, 3 A (600 Ops./h)                                         | Operations |               | 300000                                           |
| DC-13 L/R 150 ms 24 V DC, 1 A (500 Ops./h)                                | Operations |               | 200000                                           |
| Filament bulb load                                                        |            |               |                                                  |
| 1000 W at 230/240 V AC                                                    | Operations |               | 25000                                            |
| 500 W at 115/120 V AC                                                     | Operations |               | 25000                                            |
| Fluorescent lamp load                                                     |            |               |                                                  |
|                                                                           |            |               |                                                  |

|                                                                           |            |                   |                        |
|---------------------------------------------------------------------------|------------|-------------------|------------------------|
| Fluorescent lamp load 10 × 58 W at 230/240 V AC                           |            |                   |                        |
| With upstream electrical device                                           | Operations |                   | 25000                  |
| Uncompensated                                                             | Operations |                   | 25000                  |
| Fluorescent lamp load 1 × 58 W at 230/240 V AC, conventional, compensated | Operations |                   | 25000                  |
| Switching frequency                                                       |            |                   |                        |
| Mechanical operations                                                     |            | × 10 <sup>6</sup> | 10                     |
| Switching frequency                                                       |            | Hz                | 10                     |
| Resistive load/lamp load                                                  |            | Hz                | 2                      |
| Inductive load                                                            |            | Hz                | 0,5                    |
| UL/CSA                                                                    |            |                   |                        |
| Uninterrupted current at 240 V AC                                         |            | A                 | 10                     |
| Uninterrupted current at 24 V DC                                          |            | A                 | 8                      |
| AC                                                                        |            |                   |                        |
| Control Circuit Rating Codes (utilization category)                       |            |                   | B 300 Light Pilot Duty |
| Max. rated operational voltage                                            |            | V AC              | 300                    |
| Max. thermal uninterrupted current = 1 at B 300                           |            | A                 | 5                      |
| Max. make/break capacity 1 at B 300                                       |            | VA                | 3600360                |
| DC                                                                        |            |                   |                        |
| Control Circuit Rating Codes (utilization category)                       |            |                   | R 300 Light Pilot Duty |
| Max. rated operational voltage                                            |            | V DC              | 300                    |
| Max. thermal uninterrupted current at R 300                               |            | A                 | 1                      |
| Max. make/break capacity at R 300                                         |            | VA                | 2828                   |

## Notes

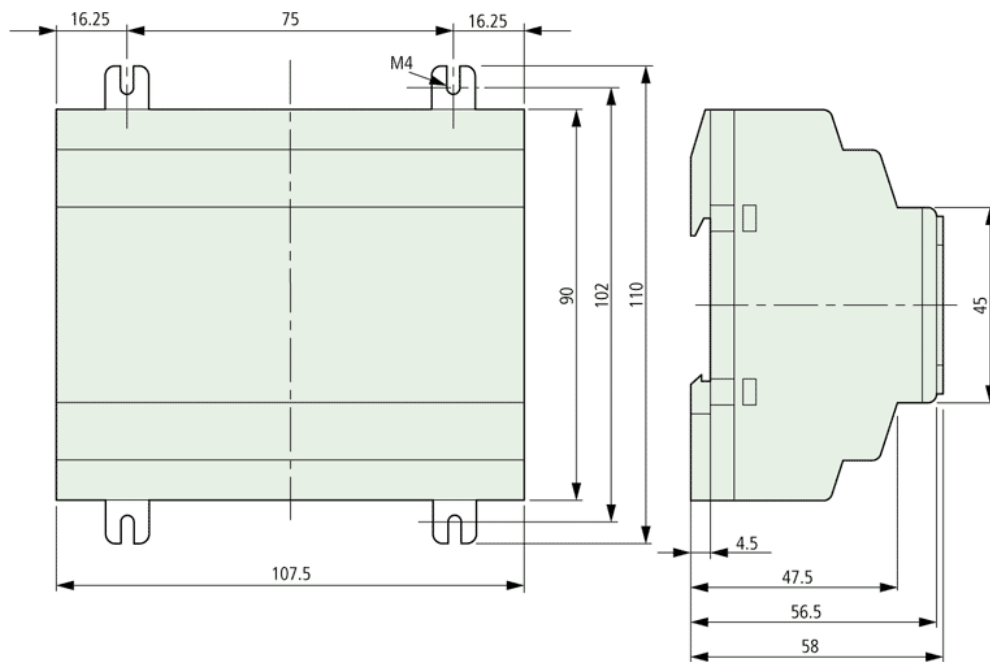
## Dimensions

### Notes

For additional Technical Data EASY5... and EASY7... → AWB2528–1508GB,

EASY8... → AWB2528–1423D

### Dimensions



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