



ALM410T



### RCBO Electronic 3M 3P+N 6kA C-10A 30mA A

#### Technical Features

##### Architecture

|              |      |
|--------------|------|
| Type of pole | 3P+N |
| Curve        | C    |

##### Electric current

|                                                       |             |
|-------------------------------------------------------|-------------|
| Rated current                                         | 10 A        |
| Rated residual operating current $I_{dn}$             | 30 mA       |
| Rated current -5°C                                    | 11.15 A     |
| Rated current at 0°C                                  | 10.99 A     |
| Rated current 5°C                                     | 10.85 A     |
| Rated current 10°C                                    | 10.68 A     |
| Rated current 15°C                                    | 10.52 A     |
| Rated current at 20°C                                 | 10.35 A     |
| Rated current 25°C                                    | 10.18 A     |
| Rated current 30°C                                    | 10 A        |
| Rated current 35°C                                    | 9.82 A      |
| Rated current at 40°C                                 | 9.64 A      |
| Rated current at 45°C                                 | 9.46 A      |
| Rated current at 50°C                                 | 9.28 A      |
| Rated current 55°C                                    | 9.10 A      |
| Rated current 60°C                                    | 8.92 A      |
| Min./max. threshold value of the AC thermal operation | 1.13-1.45 A |

##### Safety

|                               |      |
|-------------------------------|------|
| Residual current type         | A    |
| Ingress Protection (IP) class | IP20 |

##### Voltage

|                                               |             |
|-----------------------------------------------|-------------|
| Rated insulation voltage $U_i$                | 500 V       |
| Rated impulse withstand voltage $U_{imp}$     | 4 kV        |
| Rated operational voltage $U_e$               | 400 - 415 V |
| Overvoltage category according to IEC 60947-1 | 3           |
| Type voltage supply                           | AC          |
| Dielectric strength value of power frequency  | 2 kV        |

##### Power

|                              |        |
|------------------------------|--------|
| Total power loss under $I_N$ | 5.72 W |
|------------------------------|--------|

##### Frequency

|           |            |
|-----------|------------|
| Frequency | 50 - 60 Hz |
|-----------|------------|

##### Use conditions

|               |        |
|---------------|--------|
| Max. Altitude | 2000 m |
|---------------|--------|

##### Installation, mounting

|                                         |              |
|-----------------------------------------|--------------|
| Nominal tightening torque down terminal | 2.5 - 2.5 Nm |
| Nominal tightening torque top terminal  | 2.5 - 2.5 Nm |

##### Use conditions

|                                   |   |
|-----------------------------------|---|
| Class of energy limitation $I^2t$ | 3 |
|-----------------------------------|---|

##### Connection

|                                                              |                      |
|--------------------------------------------------------------|----------------------|
| Cross-section of output with screws, for flexible conductors | 1-16 mm <sup>2</sup> |
| Cross-section of output with screws, for massive conductors  | 1-25 mm <sup>2</sup> |
| Cross-section of input with screws, for flexible conductors  | 1-16 mm <sup>2</sup> |
| Cross-section of input with screws, for massive conductors   | 1-25 mm <sup>2</sup> |

##### Installation, mounting

|                           |              |
|---------------------------|--------------|
| Nominal tightening torque | 2.5 - 2.5 Nm |
|---------------------------|--------------|

# Product Datasheet

## ALM410T

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### Capacity

|                   |   |
|-------------------|---|
| Number of modules | 3 |
|-------------------|---|

### Installation, mounting

|                                               |                |
|-----------------------------------------------|----------------|
| Type of top connection for modular devices    | Screw terminal |
| Type of bottom connection for modular devices | biconnect      |

### Dimensions

|        |       |
|--------|-------|
| Height | 84 mm |
| Width  | 54 mm |
| Depth  | 70 mm |

### Use conditions

|                               |             |
|-------------------------------|-------------|
| Operating temperature         | -5 - 70 °C  |
| Storage/transport temperature | -25 - 70 °C |

### Connection

|                                                                        |                      |
|------------------------------------------------------------------------|----------------------|
| Cross-section of input and output with screws, for flexible conductors | 1-16 mm <sup>2</sup> |
| Cross-section of input and output with screws, for massive conductors  | 1-25 mm <sup>2</sup> |

### Compatibility

|                       |     |
|-----------------------|-----|
| Suitable for DIN Rail | Yes |
|-----------------------|-----|

### Use conditions

|                                                          |   |
|----------------------------------------------------------|---|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
|----------------------------------------------------------|---|

### Sustainability

|                 |     |
|-----------------|-----|
| REACH-SVHC free | Yes |
| RoHS conform    | Yes |