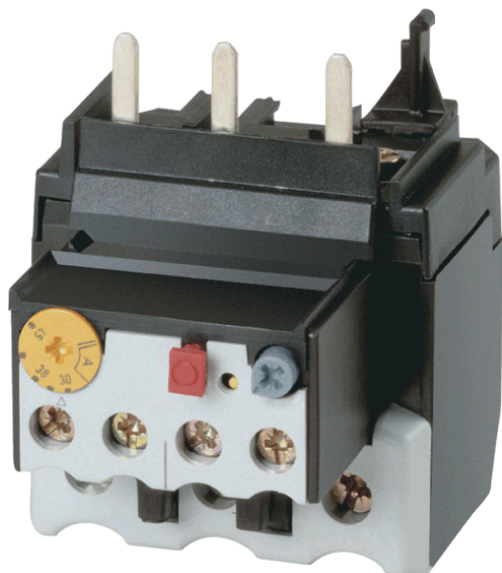


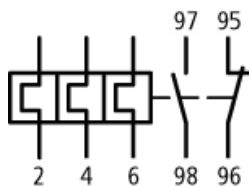
Type: **ZB65-57**  
 Article No.: **278459**



### Ordering information

|  |       |   |   |
|--|-------|---|---|
| Overload release, min. – max.                  | $I_r$ | A | 40 – 57   |
| Auxiliary contacts M = Make                    |       |   | 1 M   |
| Auxiliary contacts B = Break                   |       |   | 1 B   |
| For use with                                   |       |   | DILM40, DILM50,<br>DILM65,<br>DIULM40, DIULM50,<br>DIULM65, |
| Short-circuit protection Type “1” coordination | gG/gL | A | 160   |
| Short-circuit protection Type “2” coordination | gG/gL | A | 80  |

### Contact sequence



### Note concerning the product

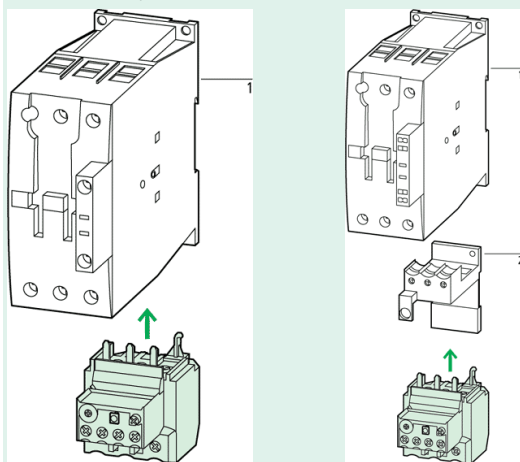
Overload release: tripping class 10 A

Short-circuit protection: Observe the maximum permissible fuse of the contactor with direct device mounting.

Suitable for protection of EEx e-motors. EC prototype test certification on request.

### Notes concerning the product group

Fitted directly to the contactor      Separate mounting



1 Contactor

2 Bases

→ 051608

→ 278474

### General

|   |  |     |   |
|---|--|-----|---|
| Standards   |  |     | IEC/EN 60947, VDE 0660, UL, CSA   |
| Climatic proofing   |  |     | Damp heat, constant, to IEC 60068-2-78;<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature   |  |     |   |
| Open  |  | ° C | -25/50  |
| Enclosed  |  | ° C | -25/40  |
| Temperature compensation  |  |     | Continuous  |
| Weight  |  |     |   |
| Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27 |  | g   | 10  |
| Protection type   |  |     | IP00  |
| Protection against direct contact when actuated from front (IEC 536)      |  |     | Finger- and back-of-hand proof  |

### Main conducting paths

|   |           |                 |              |
|---|-----------|-----------------|--------------|
| Rated impulse withstand voltage                     | $U_{imp}$ | V AC            | 6000         |
| Overvoltage category/pollution degree               |           |                 | III/3        |
| Rated insulation voltage                            |           |                 |              |
| AC  | $U_i$     | V AC            | 690          |
| Rated operational voltage                           | $U_e$     | V AC            | 690          |
| Safe isolation to VDE 0106 Part 101 and Part 101/A1 |           |                 |              |
| Between auxiliary contacts and main contacts        |           | V AC            | 440          |
| Between main circuits                               |           | V AC            | 440          |
| Overload release setting range                      |           | A               | 6 – 75       |
| Temperature compensation residual error > 20°C      |           | %/K             | f 0.25       |
| Current heat loss (3 conductors)                    |           |                 |              |
| Lower value of the setting range                    |           | W               | 3            |
| Maximum setting                                     |           | W               | 7,5          |
| Terminal capacities                                 |           |                 |              |
| Solid   |           | mm <sup>2</sup> | 2 × (1 – 16) |

|                       |  |                 |                        |
|-----------------------|--|-----------------|------------------------|
| Flexible with ferrule |  | mm <sup>2</sup> | 1 × 25<br>2 × (1 – 10) |
| Stranded              |  | mm <sup>2</sup> | 1 × 35<br>2 × 10       |
| Solid or stranded     |  | AWG             | 14 – 2                 |
| Terminal screw        |  |                 | M6                     |
| Tightening torque     |  | Nm              | 3.5                    |
| Tools                 |  |                 |                        |
| Pozidriv screwdriver  |  | Size            | 2                      |
| Standard screwdriver  |  | mm              | 1 × 6                  |

### Auxiliary and control circuits

|   |           |                 |                  |
|---|-----------|-----------------|------------------|
| Rated impulse withstand voltage   | $U_{imp}$ | V               | 6000             |
| Overvoltage category/pollution degree   |           |                 | III/3            |
| Terminal capacities   |           |                 |                  |
| Solid   |           | mm <sup>2</sup> | 2 × (0.75 – 4)   |
| Flexible with ferrule   |           | mm <sup>2</sup> | 2 × (0.75 – 2.5) |
| Solid or stranded   |           | AWG             | 2 × (18 – 12)    |
| Terminal screw  |           |                 | M3.5             |
| Tightening torque   |           | Nm              | 0.8 – 1.2        |
| Tools   |           |                 |                  |
| Pozidriv screwdriver  |           | Size            | 2                |
| Standard screwdriver  |           | mm              | 1 × 6            |
| Rated insulation voltage  | $U_i$     | V AC            | 500              |
| Rated operational voltage   | $U_e$     | V AC            | 500              |
| Safe isolation to VDE 0106 Part 101 and Part 101/A1<br>between the auxiliary contacts |           | V AC            | 240              |
| Conventional thermal current  | $I_{th}$  | A               | 6                |
| Rated operational current   |           |                 |                  |
| AC–15   |           |                 |                  |
| Make contact  |           |                 |                  |
| 120 V   | $I_e$     | A               | 1,5              |
| 240 V   | $I_e$     | A               | 1,5              |
| 415 V   | $I_e$     | A               | 0,5              |
| 500 V   | $I_e$     | A               | 0,5              |
| Break contact   |           |                 |                  |
| 120 V   | $I_e$     | A               | 1,5              |
| 240 V   | $I_e$     | A               | 1,5              |
| 415 V   | $I_e$     | A               | 0,9              |
| 500 V   | $I_e$     | A               | 0,8              |
| DC–13 L/R f 15 ms   |           |                 |                  |
| 24 V  | $I_e$     | A               | 0,9              |
| 60 V  | $I_e$     | A               | 0,75             |
| 110 V   | $I_e$     | A               | 0,4              |
| 220 V   | $I_e$     | A               | 0,2              |
| Short–circuit rating without welding  |           |                 |                  |
| max. fuse   |           | A gG/gL         | 6                |

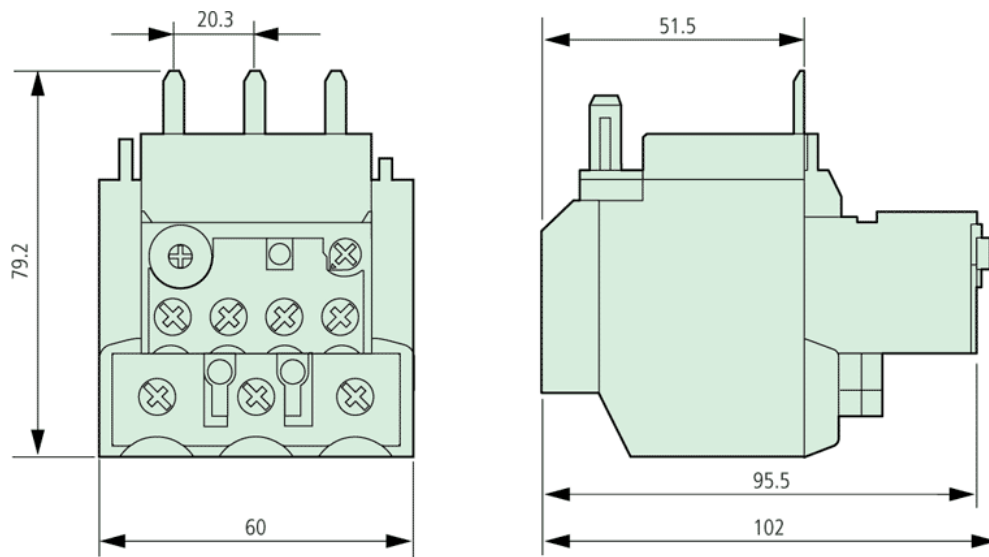
## Notes

Ambient temperature: operating range to IEC/EN 60947, PTB:  $-5^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$   
Rated operational current: Making and breaking conditions to DC-13, L/R constant as stated  
See overlay: "Fuses" for short-circuit rating time/current characteristic (please enquire)  
Main contacts terminal capacity solid and stranded conductors with ferrules: When using 2 conductors use identical cross-section

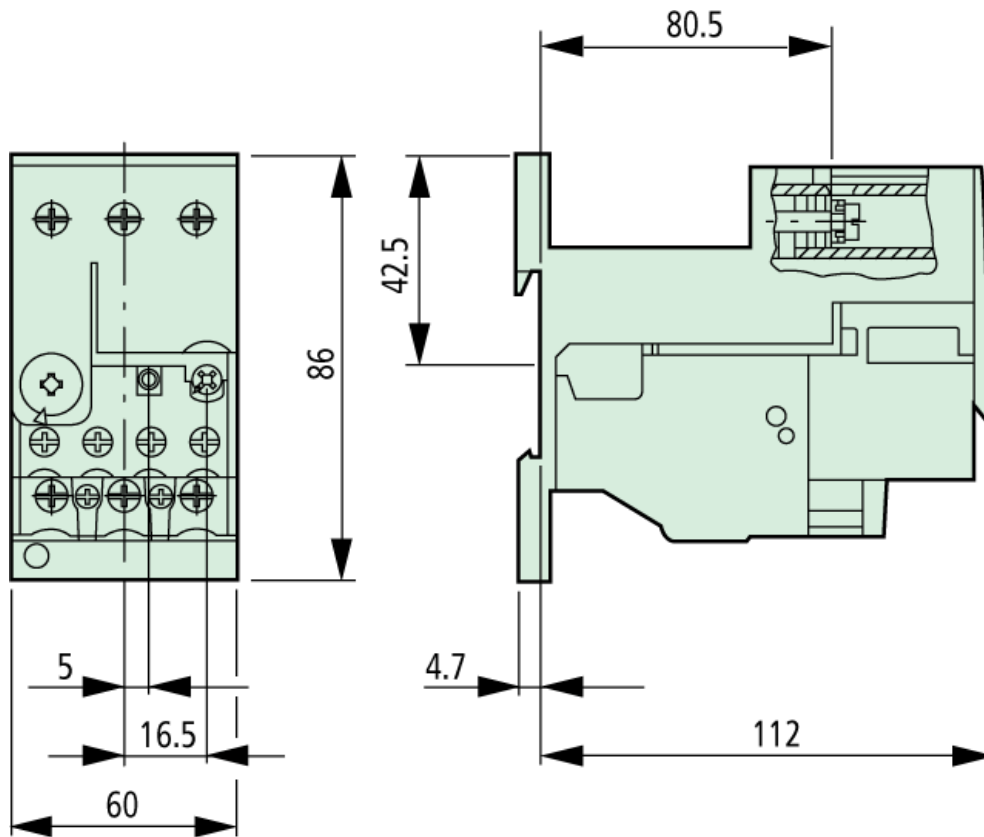
## Dimensions

With base ZB65-XEZ

## Dimensions



## Dimensions



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