



Over current switch, 32A, 1p, C-Char, AC

Part no.  
Article no.

PLHT-C32  
247983

Similar to illustration

## Delivery program

|                                                 |       |    |                                                                |
|-------------------------------------------------|-------|----|----------------------------------------------------------------|
| Basic function                                  |       |    | Miniature circuit breakers                                     |
| Number of poles                                 |       |    | 1 pole                                                         |
| Tripping characteristic                         |       |    | C                                                              |
| Application                                     |       |    | Switchgear for industrial and advanced commercial applications |
| Rated current                                   | $I_n$ | A  | 32                                                             |
| Rated switching capacity acc. to IEC/EN 60947-2 |       | kA | 25                                                             |
| Product range                                   |       |    | PLHT                                                           |

## Technical data

### Electrical

|                                                 |  |    |    |
|-------------------------------------------------|--|----|----|
| Rated switching capacity acc. to IEC/EN 60947-2 |  | kA | 25 |
|-------------------------------------------------|--|----|----|

## Design verification as per IEC/EN 61439

|                                                                                                                        |            |    |                                                                              |
|------------------------------------------------------------------------------------------------------------------------|------------|----|------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |            |    |                                                                              |
| Rated operational current for specified heat dissipation                                                               | $I_n$      | A  | 32                                                                           |
| Heat dissipation per pole, current-dependent                                                                           | $P_{vid}$  | W  | 0                                                                            |
| Equipment heat dissipation, current-dependent                                                                          | $P_{vid}$  | W  | 3.8                                                                          |
| Static heat dissipation, non-current-dependent                                                                         | $P_{vs}$   | W  | 0                                                                            |
| Heat dissipation capacity                                                                                              | $P_{diss}$ | W  | 0                                                                            |
| Operating ambient temperature min.                                                                                     |            | °C | -25                                                                          |
| Operating ambient temperature max.                                                                                     |            | °C | 55                                                                           |
|                                                                                                                        |            |    | linear, per +1 °C, results in a 0.35% reduction of current carrying capacity |
| IEC/EN 61439 design verification                                                                                       |            |    |                                                                              |
| 10.2 Strength of materials and parts                                                                                   |            |    |                                                                              |
| 10.2.2 Corrosion resistance                                                                                            |            |    |                                                                              |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                   |
| 10.2.3.1 Verification of thermal stability of enclosures                                                               |            |    |                                                                              |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat                                             |            |    |                                                                              |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                   |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |            |    |                                                                              |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                   |
| 10.2.4 Resistance to ultra-violet (UV) radiation                                                                       |            |    |                                                                              |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                   |
| 10.2.5 Lifting                                                                                                         |            |    |                                                                              |
|                                                                                                                        |            |    | Does not apply, since the entire switchgear needs to be evaluated.           |
| 10.2.6 Mechanical impact                                                                                               |            |    |                                                                              |
|                                                                                                                        |            |    | Does not apply, since the entire switchgear needs to be evaluated.           |
| 10.2.7 Inscriptions                                                                                                    |            |    |                                                                              |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                   |
| 10.3 Degree of protection of ASSEMBLIES                                                                                |            |    |                                                                              |
|                                                                                                                        |            |    | Does not apply, since the entire switchgear needs to be evaluated.           |
| 10.4 Clearances and creepage distances                                                                                 |            |    |                                                                              |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                   |
| 10.5 Protection against electric shock                                                                                 |            |    |                                                                              |
|                                                                                                                        |            |    | Does not apply, since the entire switchgear needs to be evaluated.           |
| 10.6 Incorporation of switching devices and components                                                                 |            |    |                                                                              |
|                                                                                                                        |            |    | Does not apply, since the entire switchgear needs to be evaluated.           |
| 10.7 Internal electrical circuits and connections                                                                      |            |    |                                                                              |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                       |
| 10.8 Connections for external conductors                                                                               |            |    |                                                                              |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                       |
| 10.9 Insulation properties                                                                                             |            |    |                                                                              |
| 10.9.2 Power-frequency electric strength                                                                               |            |    |                                                                              |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                       |
| 10.9.3 Impulse withstand voltage                                                                                       |            |    |                                                                              |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                       |
| 10.9.4 Testing of enclosures made of insulating material                                                               |            |    |                                                                              |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                       |

|                                     |  |  |                                                                                                                                  |
|-------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------|
| 10.10 Temperature rise              |  |  | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating          |  |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.12 Electromagnetic compatibility |  |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.13 Mechanical function           |  |  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

## Technical data ETIM 6.0

|                                                                                                                                                                                                                |  |    |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---------|
| Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)                                                                                                                             |  |    |         |
| Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecI@ss8.1-27-14-19-01 [AAB905011]) |  |    |         |
| Release characteristic                                                                                                                                                                                         |  |    | C       |
| Number of poles (total)                                                                                                                                                                                        |  |    | 1       |
| Number of protected poles                                                                                                                                                                                      |  |    | 1       |
| Nominal rated current                                                                                                                                                                                          |  | A  | 32      |
| Nominal rated voltage                                                                                                                                                                                          |  | V  | 230     |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V                                                                                                                                                    |  | kA | 25      |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V                                                                                                                                                    |  | kA | 25      |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V                                                                                                                                                 |  | kA | 0       |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V                                                                                                                                                 |  | kA | 0       |
| Voltage type                                                                                                                                                                                                   |  |    | AC      |
| Current limiting class                                                                                                                                                                                         |  |    | 3       |
| Frequency                                                                                                                                                                                                      |  | Hz | 50 - 60 |
| Concurrently switching N-neutral                                                                                                                                                                               |  |    | No      |
| Suitable for flush-mounted installation                                                                                                                                                                        |  |    | No      |
| Over voltage category                                                                                                                                                                                          |  |    | 3       |
| Pollution degree                                                                                                                                                                                               |  |    | 2       |
| Width in number of modular spacings                                                                                                                                                                            |  |    | 1.5     |
| Built-in depth                                                                                                                                                                                                 |  | mm | 75      |
| Additional equipment possible                                                                                                                                                                                  |  |    | Yes     |
| Degree of protection (IP)                                                                                                                                                                                      |  |    | IP20    |