

Susol Molded Case Circuit Breaker  
TD100N



General

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Product code                | 0102009300                              |
| Product description         | TD100N FMU100 50A 3P EXP                |
| Trip Unit                   | FMU(Adjustable-thermal, Fixed-magnetic) |
| [In] rated current          | 50 A at 40 °C                           |
| Poles description           | 3P                                      |
| Protected poles description | 3T                                      |
| Neutral position            | -                                       |
| Network type                | AC (50/60 Hz), DC                       |
| Upside connection           | Front (screw)                           |
| Downside connection         | Front (screw)                           |

Characteristics

|                                              |                       |
|----------------------------------------------|-----------------------|
| [Ue] rated operational voltage (AC 50/60 Hz) | 690 V AC              |
| [Ue] rated operational voltage (DC)          | 500 V DC              |
| [Uimp] rated impulse withstand voltage       | 8 kV                  |
| [Ui] rated insulation voltage                | 1000 V                |
| Mechanical durability                        | 25000 cycles          |
| Electrical durability (AC)                   | 10000 cycles 415 V In |

|                                                      |                                                 |
|------------------------------------------------------|-------------------------------------------------|
| Electrical durability (DC)                           | -                                               |
| Utilisation category                                 | Category A                                      |
| Suitability for isolation                            | Yes                                             |
| Reference standard                                   | IEC 60947-2                                     |
| [Icu] rated Ultimate short-circuit breaking capacity | 85 kA at 220/240 V AC 50/60 Hz, IEC 60947-2     |
|                                                      | 50 kA at 380/415 V AC 50/60 Hz, IEC 60947-2     |
|                                                      | 50 kA at 440/460 V AC 50/60 Hz, IEC 60947-2     |
|                                                      | 30 kA at 480/500 V AC 50/60 Hz, IEC 60947-2     |
|                                                      | 22 kA at 525 V AC 50/60 Hz, IEC 60947-2         |
|                                                      | 10 kA at 660/690 V AC 50/60 Hz, IEC 60947-2     |
|                                                      | 42 kA at 250 V DC, Reference                    |
|                                                      | 42 kA at 500 V DC (2poles in series), Reference |
| [Ics] rated service breaking capacity                | 85 kA at 220/240 V AC 50/60 Hz, IEC 60947-2     |
|                                                      | 50 kA at 380/415 V AC 50/60 Hz, IEC 60947-2     |
|                                                      | 50 kA at 440/460 V AC 50/60 Hz, IEC 60947-2     |
|                                                      | 30 kA at 480/500 V AC 50/60 Hz, IEC 60947-2     |
|                                                      | 22 kA at 525 V AC 50/60 Hz, IEC 60947-2         |
|                                                      | 5 kA at 660/690 V AC 50/60 Hz, IEC 60947-2      |
|                                                      | 42 kA at 250 V DC, Reference                    |
|                                                      | 42 kA at 500 V DC (2poles in series), Reference |
| [Icm] rated short-circuit marking capacity           | 220 kA at 220/240 V AC 50/60 Hz, IEC 60947-2    |
|                                                      | 187 kA at 380/415 V AC 50/60 Hz, IEC 60947-2    |
|                                                      | 154 kA at 440/460 V AC 50/60 Hz, IEC 60947-2    |
|                                                      | 105 kA at 480/500 V AC 50/60 Hz, IEC 60947-2    |
|                                                      | 74 kA at 525 V AC 50/60 Hz, IEC 60947-2         |
|                                                      | 17 kA at 660/690 V AC 50/60 Hz, IEC 60947-2     |
| [Icw] rated short-time withstand current             | -                                               |
|                                                      | -                                               |
|                                                      | -                                               |

|                                                |                                                |
|------------------------------------------------|------------------------------------------------|
|                                                | -                                              |
| Trip unit characteristics                      | Thermal-magnetic                               |
|                                                | L : for overload protection (long time)        |
|                                                | -                                              |
|                                                | I : for instantaneous short-circuit protection |
|                                                | -                                              |
|                                                | -                                              |
|                                                | -                                              |
|                                                | -                                              |
|                                                | -                                              |
| [Ir] Long-time pick-up<br>adjustment range     | Adjustable, 3 settings                         |
|                                                | 0.8, 0.9, 1 x I <sub>n</sub>                   |
| [Iu] Long-time pick-up<br>adjustment range     | -                                              |
|                                                | -                                              |
| [tr] Long-time delay<br>adjustment range       | -                                              |
|                                                | -                                              |
| [Isd] Short-time pick-up<br>adjustment range   | -                                              |
|                                                | -                                              |
| [tsd] Short-time delay<br>adjustment range     | -                                              |
|                                                | -                                              |
|                                                | -                                              |
|                                                | -                                              |
|                                                | -                                              |
|                                                | -                                              |
|                                                | -                                              |
|                                                | -                                              |
| [Ii] Instantaneous pick-up<br>adjustment range | Fixed                                          |
|                                                | 10 x I <sub>n</sub>                            |
| [Ig] Ground-fault                              | -                                              |

|                                                                |   |
|----------------------------------------------------------------|---|
| protection pick-up<br>adjustment range                         | - |
| [tg] Ground-fault<br>protection time delay<br>adjustment range | - |
|                                                                | - |
|                                                                | - |
|                                                                | - |
|                                                                | - |
|                                                                | - |
|                                                                | - |
| Earth leakage pick-up<br>adjustment range                      | - |
|                                                                | - |
| Earth leakage alam time<br>delay adjustment range              | - |
|                                                                | - |
| Earth leakage trip time<br>delay adjustment range              | - |
|                                                                | - |
| [Ip] Pre-trip alarm pick-up<br>adjustment range                | - |
|                                                                | - |
| [tp] Pre-trip alarm time<br>delay adjustment range             | - |
|                                                                | - |
| Alarm LED                                                      | - |
|                                                                | - |

#### Environment

|                                          |                 |
|------------------------------------------|-----------------|
| Pollution degree                         | 3, IEC 60664-1  |
| Degree of protection                     | IP20, IEC 60529 |
| Ambient air temperature<br>for operation | -20...70 °C     |
| Ambient air temperature<br>for storage   | -40...70 °C     |
| Mounting mode                            | Fixed           |
| Mounting support                         | Backplate       |
|                                          | CE (Europe)     |

|                                   |              |
|-----------------------------------|--------------|
| Approvals <sup>1)</sup> (General) | -            |
|                                   | -            |
|                                   | CCC (China)  |
|                                   | EAC (Russia) |
|                                   | IC (Korea)   |
| Approvals (shipping)              | LR (U.K)     |
|                                   | BV (France)  |
|                                   | ABS (U.S.A)  |
|                                   | GL (Germany) |
|                                   | DNV (Norway) |
|                                   | RINA (Italy) |
|                                   | KR (Korea)   |

1) LS ELECTRIC's standard products are designed for CE.

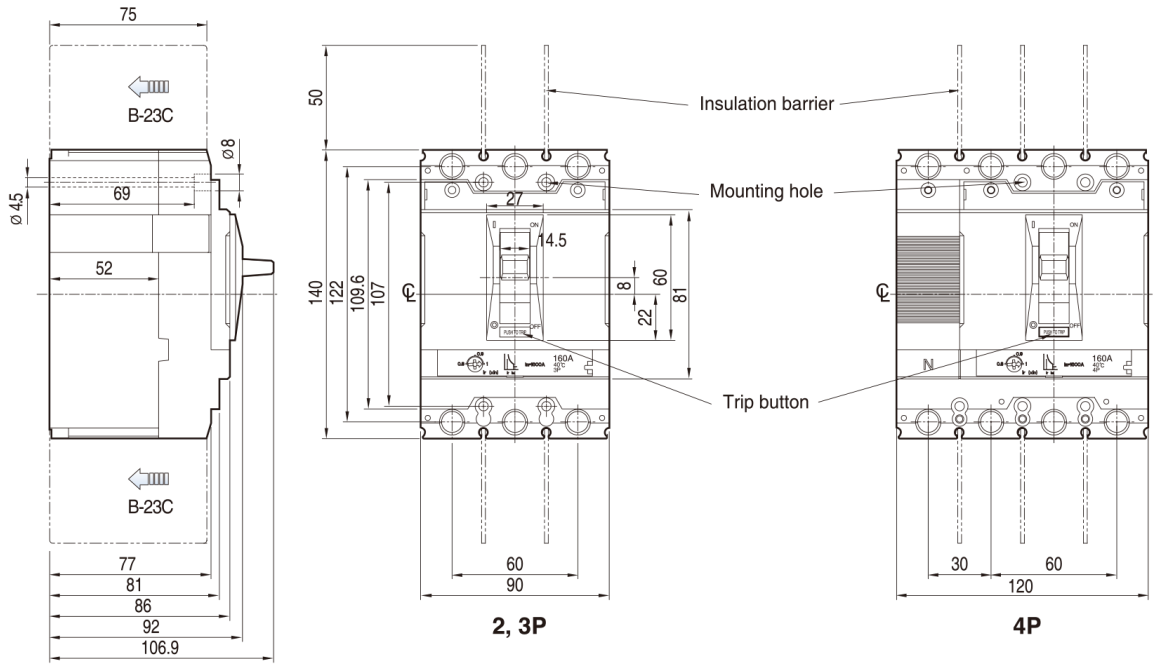
To check the product with regional certificates, please contact LSE sales representatives.

## Dimensions

|         |                     |         |
|---------|---------------------|---------|
| Product | Width               | 90 mm   |
|         | Height              | 140 mm  |
|         | Depth               | 86 mm   |
|         | Weight              | 1.5 kg  |
| Packing | Width               | 295 mm  |
|         | Height              | 490 mm  |
|         | Depth               | 132 mm  |
|         | Weight              | 15 kg   |
|         | Quantity (in a box) | 10 pcs. |

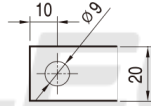
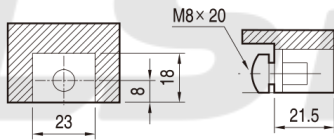
TD100/160

[mm]



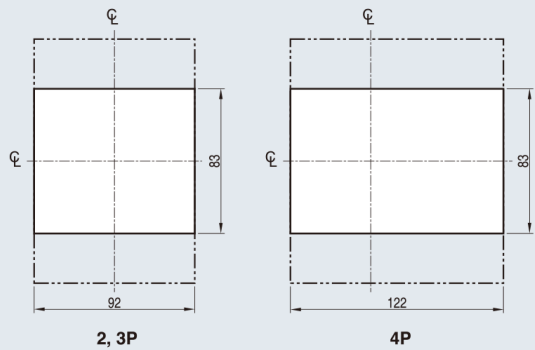
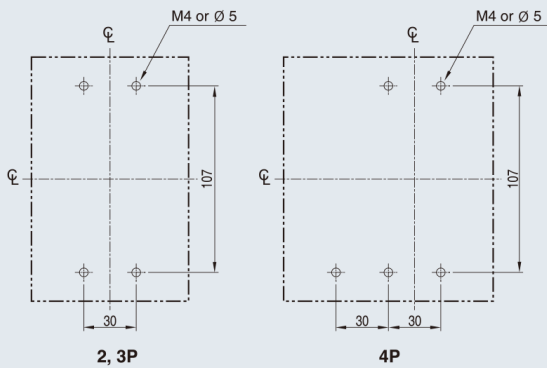
Terminal section

Conductor



Panel drilling

Front panel cutting



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***LS<sup>➤</sup>ELECTRIC***