



## UK Technical Data 03

**DLS 6i C 2 < 63A**  
**C-Characteristic, 10 kA**



### Function

Circuit-breakers to EN60898 Energy limiting class 3, designed for implementing overcurrent protection as per BS 7671 - 431.

### Features

Rated switching capacity 10 kA.

Double deck screw terminals for separate cable and busbar connections.

Standard 32 mm din rail mounting.

ON/OFF trip-free positive toggle switch indicator.

### Mounting

Quick fastening to mounting rail, any installation position

### Applications

Designed for installation in enclosures mounted in, domestic, commercial and similar environments.

### Accessories

Restart locking facilities DEASS, Auxiliary Switches DHi, Fault signaling contacts DHi-S, DASA shunt trip.

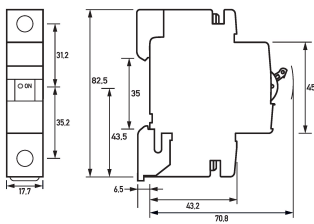
### Technical Data

| Technical Data                  | DLS 6i C 2 < 63A |
|---------------------------------|------------------|
| Series                          | DLS 6i           |
| Number of poles                 | 1 to 4           |
| Tripping characteristic         | C                |
| Supply side                     | Top or bottom    |
| Range of overload tripping      | 1.13 ... 1.45    |
| Range of short-circuit tripping | 5 ... 10         |

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|---|---|
| Tripping factor over frequency band                     | 1.5 at DC; 1.1 at 100 Hz; 1.2 at 200 Hz; 1.3 at 300 Hz;   |
| Test current factor tripping electromagnetic            | 10  |
| Test current multiplier, trip, thermal                  | 1.45  |
| Test current factor retaining electromagnetic           | 5   |
| Test current factor retaining thermal                   | 1.13  |
| Reference temperature thermal release                   | 30 °C   |
| Reference temperature thermal release (Variance)        | 5 °C  |
| Isolation class   | C at 250 V AC; B at 400 V AC  |
| Specification   | Load circuit<br>Load switch contact   |
| Rated voltage (AC)                                      | 230 V, 400 V  |
| Rated voltage (DC)                                      | 1 pole 60 V, 2 poles 125 V  |
| Rated current (AC)                                      | Refer to the individual product reference, data sheet available on request                                |
| Rated short-circuit current                             | 10 kA   |
| Rated insulation voltage                                | 2 kV  |
| Rated impulse withstand voltage                         | 4 kV  |
| Rated frequency   | 50 Hz (16.67 Hz ... 60 Hz)  |
| Current heat loss per current path                      | Refer to the individual product reference, data sheet available on request                                |
| short-circuit backup-fuse SCPD                          | 125 A   |
| Back-up fuse type                                       | gL, gG  |
| Back-up fuse (textual)                                  | Safety fuse as per DIN EN 0636  |
| Overvoltage class                                       | III   |
| Protection against direct contact                       | Strain relief clamp top (Load circuit)<br>DGUV V2, VDE 0660-514, finger-safe and safe for back-of-hand    |
| Connection C1 Maximum number of conductors per terminal | 2 (conductors of same type and cross-section)   |
| Cross section solid                                     | 1-wire: 0.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>  |
| Connecting capacity flexible                            | 1-wire: 1 mm <sup>2</sup> ... 16 mm <sup>2</sup>  |
| Cross section flexible with ferrule                     | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>  |
| Cross section stranded                                  | 1-wire: 1.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>  |
| Tightening torque                                       | max. 2.5 Nm   |
| Thickness busbar  | max. 3 mm   |
| Thickness busbar cable lug (combined conductors, max)   | 2 mm  |
| Cross section (busbar / busbar fork combined, max)      | 25 mm <sup>2</sup>  |
| Protection against direct contact                       | Strain relief clamp bottom (Load circuit)<br>DGUV V2, VDE 0660-514, finger-safe and safe for back-of-hand |
| Connection C2 Maximum number of conductors per terminal | 2 (conductors of same type and cross-section)   |
| Cross section solid                                     | 1-wire: 0.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>  |
| Connecting capacity flexible                            | 1-wire: 1 mm <sup>2</sup> ... 25 mm <sup>2</sup>  |
| Cross section flexible with ferrule                     | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>  |

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|--|---|
| Cross section stranded                                   | 1-wire: 1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>                              |
| Tightening torque  | max. 2.5 Nm   |
| thickness busbar cable lug<br>(combined conductors, max) | 2 mm  |
| Cross section (busbar / busbar<br>fork combined, max)    | 35 mm <sup>2</sup>  |
| thickness busbar   | max. 3 mm   |
|  | General data  |
| Operating position                                       | any   |
| Mechanical endurance                                     | min. 20000 switching cycles   |
| Storage temperature                                      | -40 °C ... 70 °C  |
| Ambient temperature                                      | -25 °C ... 55 °C  |
| Climate resistance                                       | damp/heat: constant as per DIN EN 60068-2-78, cyclical as per DIN EN 60068-2-30 |
| Shock resistance   | 25 g / 11 ms Duration   |
| Housing type   | Distributor housing   |
| Mounting type  | Mounting rail (35 mm)   |
| Housing material   | Thermoplastic resin   |
| Protection class   | IP20  |
| sealable   | true  |
| Width  | 17.7 mm   |
| Height   | 82.5 mm   |
| Depth  | 74 mm   |
| Installation depth                                       | 68 mm   |
| Width (modules)  | 1   |
| Design requirements/Standards                            | EN 60898-1, VDE 0641-11   |
| Certifications   | VDE   |
| Energy limiting class                                    | 3   |
| Degree of pollution according to<br>EN 60664             | 2   |

**Dimensions**



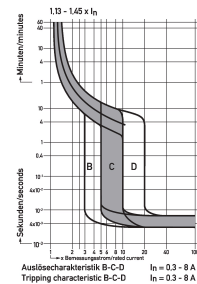
Dimensional drawing Group view

**Wiring example**



Wiring diagram

**Diagrams**



Characteristic Char. B, C, D