



UK Technical Data o2

DLS 6i B 6 < 63A
B-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.

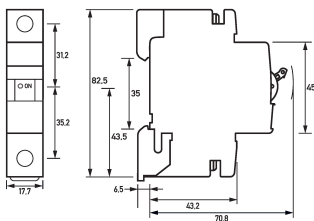
Technical Data

Technical Data	DLS 6i B 6 < 63A
Series	DLS 6i
Number of poles	1 to 4
Tripping characteristic	B
Supply side	Top or bottom
Range of overload tripping	1.13 ... 1.45
Range of short-circuit tripping	3 ... 5

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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	5
Test current multiplier, trip, thermal	1.45
Test current factor retaining electromagnetic	3
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 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) 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 ² ... 25 mm ²
Connecting capacity flexible	1-wire: 1 mm ² ... 16 mm ²
Cross section flexible with ferrule	0.5 mm ² ... 16 mm ²
Cross section stranded	1-wire: 1.5 mm ² ... 25 mm ²
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 ²
Protection against direct contact	Strain relief clamp bottom (Load circuit) 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 ² ... 35 mm ²
Connecting capacity flexible	1-wire: 1 mm ² ... 25 mm ²
Cross section flexible with ferrule	0.5 mm ² ... 16 mm ²

Technical Data	DLS 6i B 6 < 63A
Cross section stranded	1-wire: 1.5 mm ² ... 35 mm ²
Tightening torque	max. 2.5 Nm
thickness busbar cable lug (combined conductors, max)	2 mm
Cross section (busbar / busbar fork combined, max)	35 mm ²
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 EN 60664	2

Dimensions



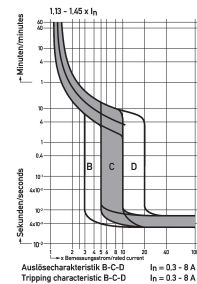
Dimensional drawing Group view

Wiring example



Wiring diagram

Diagrams



Characteristic Char. B, C, D