



UK Technical Data 05

DLS 6i D 2 < 40A

D characteristics, 10 kA



Function

Protects against electric shock, fire and equipment damage caused by earth leakage currents.

Features

- 2-pole, 2-wire, 230 V AC, 50 Hz
- 2-pole, 2-wire, 230 V AC, 50 Hz
- 2-pole, 2-wire, 230 V AC, 50 Hz
- 2-pole, 2-wire, 230 V AC, 50 Hz
- 2-pole, 2-wire, 230 V AC, 50 Hz

Mounting

Mounting on a DIN rail (35 mm) or on a panel.

Applications

Use in residential, commercial and industrial environments.

Accessories

Compatible with accessories for residual current protection.

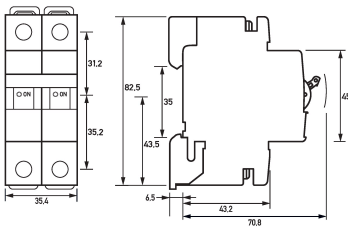
Technical Data

Technical Data	Value
Rated voltage U _n	230 V AC
Rated current I _n	16, 20, 25, 32, 40 A
Rated residual current I _{Δn}	0.03, 0.05, 0.1, 0.2, 0.3, 0.5, 1, 3, 5, 10, 30 mA
Rated residual current I _{Δn} at 500 mA	0.03, 0.05, 0.1, 0.2, 0.3, 0.5, 1, 3, 5, 10, 30 mA
Rated residual current I _{Δn} at 1000 mA	0.03, 0.05, 0.1, 0.2, 0.3, 0.5, 1, 3, 5, 10, 30 mA

Technical Data	DLS 6i D 2 < 40A
Adjustment range of short-circuit tripping	10 ... 20
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	20
Test current multiplier, trip, thermal	1.45
Test current factor retaining electromagnetic	10
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
	Load circuit
Specification	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
	Strain relief clamp top (Load circuit)
Protection against direct contact	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
	Strain relief clamp bottom (Load circuit)
Protection against direct contact	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

Technical Data	DLS 6i D 2 < 40A
Connecting capacity flexible	1-wire: 1 mm ² ... 25 mm ²
Cross section flexible with ferrule	0.5 mm ² ... 16 mm ²
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	35.4 mm
Height	82.5 mm
Depth	74 mm
Installation depth	68 mm
Width (modules)	2
Design requirements/Standards	IEC 60898-1, DIN EN 60898-1, VDE 0641-11
Certifications	VDE
Energy limiting class	3
Degree of pollution according to EN 60664	2

Dimensions



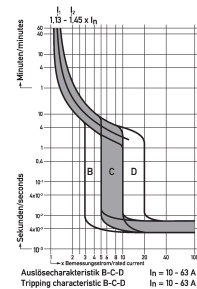
Dimensional drawing Group view

Wiring example



Wiring diagram

Diagrams



Characteristic Char. B, C, D