UK Technical Data 01

DLS 6h B   6 < 32A
B-Characteristic, 6 kA

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

Features
Rated switching capacity 6 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 6h B 6 < 32A
Series	DLS 6h
Number of poles	1
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
	Load circuit
Specification	Load switch contact
Rated voltage (AC)	230 V, 400 V
Rated voltage (DC)	60 V
Rated current (AC)	Refer to the individual product reference, data sheet available on request
Rated short-circuit current	6 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 mm² ... 25 mm²
Connecting capacity flexible	1-wire: 1 mm² ... 16 mm²
Cross section flexible with ferrule	0.5 mm² ... 16 mm²
Cross section stranded	1-wire: 1.5 mm² ... 25 mm²
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 mm²
	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 mm² ... 35 mm²
Connecting capacity flexible	1-wire: 1 mm² ... 25 mm²
Cross section flexible with ferrule	0.5 mm² ... 16 mm²

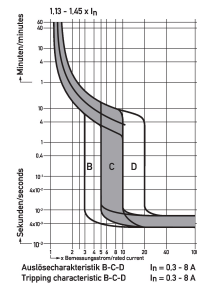| Technical Data	DLS 6h B 6 < 32A
Cross section stranded	1-wire: 1.5 mm² … 35 mm²
Tightening torque	max. 2.5 Nm
thickness busbar cable lug (combined conductors, max)	2 mm
Cross section (busbar / busbar fork combined, max)	35 mm²
thickness busbar	max. 3 mm
	General data
Operating position	any
Mechanical 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
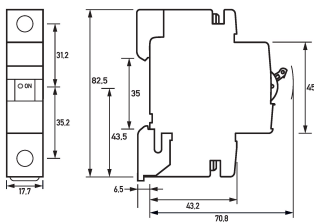
Dimensional drawing Group view

Wiring example

Wiring diagram

Diagrams

Characteristic Char. B, C, D