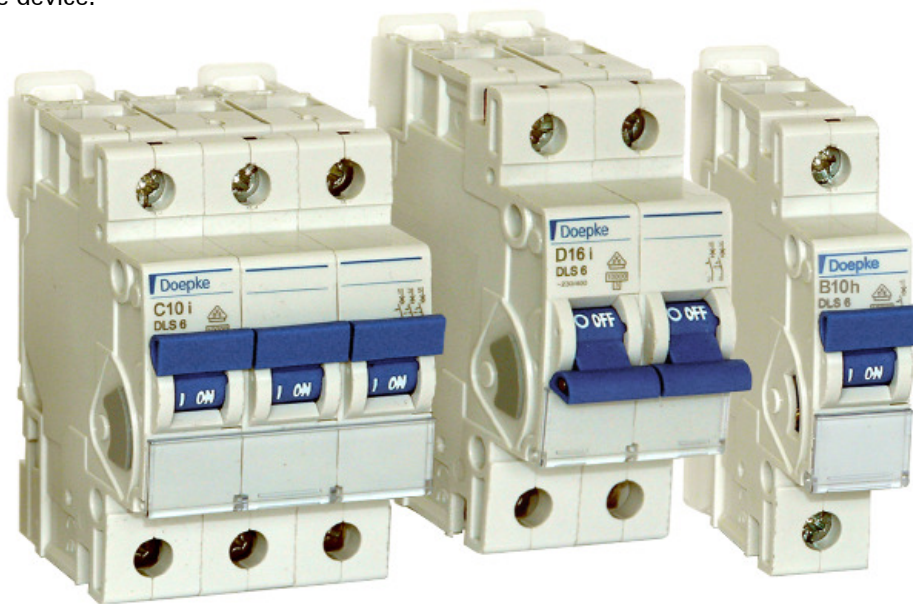


INNOVATIVE, NEW GENERATION DLS6 BREAKERS

These all new modular devices are contact safe for the back of the hand. The modern functional design and the high grade surface finish of the plastic components are indicative of the high quality standard of this new range of miniature circuit breakers.

The DIN-rail clip enables the MCB's to be removed easily and quickly from the DIN-rail without the need to remove the busbar from the remaining fixed modular devices. The MCB's will accept both pin and fork busbar, the box terminals have a capacity of 25mm². A large window with flip-down opening enables clear permanently protected labelling of the device.



The 'B' Curve Range of Miniature Circuit Breakers

This range is used to provide protection and control of circuits against overload and short circuit in domestic installations. Manufactured to BSEN 60898 the single pole versions are rated at 6kA and are used extensively in all our consumer boards. The double & triple pole MCBs are rated at 10kA for added protection.

MCBs 'B' Curve 6kA Single Pole, 10kA Double & Triple Pole								
Breaking Capacity	SINGLE POLE			Breaking Capacity	DOUBLE POLE		TRIPLE POLE	
	Rating	Modules	Reference		Modules	Reference	Modules	Reference
6A	6kA	1	HB6/1	10kA	2	IB6/2	3	IB6/3
10A	6kA	1	HB10/1	10kA	2	IB10/2	3	IB10/3
16A	6kA	1	HB16/1	10kA	2	IB16/2	3	IB16/3
20A	6kA	1	HB20/1	10kA	2	IB20/2	3	IB20/3
25A	6kA	1	HB25/1	10kA	2	IB25/2	3	IB25/3
32A	6kA	1	HB32/1	10kA	2	IB32/2	3	IB32/3
40A	6kA	1	HB40/1	10kA	2	IB40/2	3	IB40/3
50A	6kA	1	HB50/1	10kA	2	IB50/2	3	IB50/3
63A	6kA	1	HB63/1	10kA	2	IB63/2	3	IB63/3

MINIATURE CIRCUIT BREAKERS

The 'C' Curve 10kA Range is used to provide protection and control of circuits against overload and short circuit in commercial and industrial electrical distribution systems. This is the most popular type for use in our TPN boards.

MCBs 'C' Curve 10kA Single & Double Pole & Triple Pole							
Rating	Breaking Capacity	SINGLE POLE		DOUBLE POLE		TRIPLE POLE	
		Modules	Reference	Modules	Reference	Modules	Reference
0.5A	10kA	1	IC0.5/1	2	IC0.5/2	3	IC0.5/3
1A	10kA	1	IC1/1	2	IC1/2	3	IC1/3
2A	10kA	1	IC2/1	2	IC2/2	3	IC2/3
4A	10kA	1	IC4/1	2	IC4/2	3	IC4/3
6A	10kA	1	IC6/1	2	IC6/2	3	IC6/3
10A	10kA	1	IC10/1	2	IC10/2	3	IC10/3
16A	10kA	1	IC16/1	2	IC16/2	3	IC16/3
20A	10kA	1	IC20/1	2	IC20/2	3	IC20/3
25A	10kA	1	IC25/1	2	IC25/2	3	IC25/3
32A	10kA	1	IC32/1	2	IC32/2	3	IC32/3
40A	10kA	1	IC40/1	2	IC40/2	3	IC40/3
50A	10kA	1	IC50/1	2	IC50/2	3	IC50/3
63A	10kA	1	IC63/1	2	IC63/2	3	IC63/3

MCBs 'C' Curve 10kA Four Pole			
Rating	Breaking Capacity	FOUR POLE Modules	Reference
16A	10kA	4	IC16/4
20A	10kA	4	IC20/4
25A	10kA	4	IC25/4
32A	10kA	4	IC32/4
40A	10kA	4	IC40/4
50A	10kA	4	IC50/4
63A	10kA	4	IC63/4



The 'D' Curve 10kA Range

provides protection and control of circuits against overload and short circuit in industrial electrical distribution systems. Used in the TPN boards, this range will provide protection for equipment with surge currents especially motors.

MCBs 'D' Curve 10kA Single & Double Pole & Triple Pole							
Rating	Breaking Capacity	SINGLE POLE		DOUBLE POLE		TRIPLE POLE	
		Modules	Reference	Modules	Reference	Modules	Reference
6A	10kA	1	ID6/1	2	ID6/2	3	ID6/3
10A	10kA	1	ID10/1	2	ID10/2	3	ID10/3
16A	10kA	1	ID16/1	2	ID16/2	3	ID16/3
20A	10kA	1	ID20/1	2	ID20/2	3	ID20/3
25A	10kA	1	ID25/1	2	ID25/2	3	ID25/3
32A	10kA	1	ID32/1	2	ID32/2	3	ID32/3
40A	10kA	1	ID40/1	2	ID40/2	3	ID40/3
50A	10kA	1	ID50/1	2	ID50/2	3	ID50/3
63A	10kA	1	ID63/1	2	ID63/2	3	ID63/3



MINIATURE CIRCUIT BREAKERS (CONTINUED)

Accessories for the DLS6 range of breakers

The DHi auxiliary contact switches can be added to MCBs to give volt free contacts that indicate the state of the device. Adding the DASA shunt trip to an MCB gives automatic tripping when 230V mains is applied to the tripping coil.

Connection of these devices is by a pin into the side of the adjoining device and a clip top and bottom.

Auxiliary / Fault Signal Switches & Shunt Trip		
Module	Contacts	Reference
0.5	1 x normally open 1 x normally closed	DHi-4
1.0	1.5A max	DASA-230

To avoid reconnection during maintenance or repair work. Avoids the possibility of accidental connection to mains voltage.

Locking Facility	
Description	Reference
Lockable with padlock (not supplied)	DEASS



High Current Rating MCBs 'C' Curve

These specialised MCBs are 1, 2, 3 & 4 pole units built to a 27mm module size with ratings of 80, 100 & 125 Amps. They are specialist stand alone devices, which do not fit into standard consumer units or pan assemblies.



High Rating 'C' Curve					
Rating	Breaking Capacity	Single Pole Reference	Double Pole Reference	Triple Pole Reference	Four Pole Reference
80A	10kA	C10.80/1	C10.80/2	C10.80/3	C10.80/4
100A	10kA	C10.100/1	C10.100/2	C10.100/3	C10.100/4
125A	10kA	C10.125/1	C10.125/2	C10.125/3	C10.125/4

Shunt Trip for high rating MCBs		
Module	Contacts	Reference
1.0 (17mm)	4A max	DC-ASA

Circuit Protection

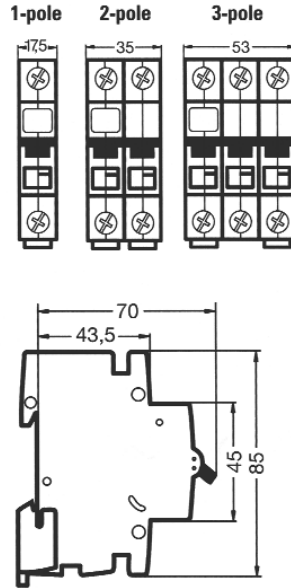
Miniature Circuit Breakers

Technical Data

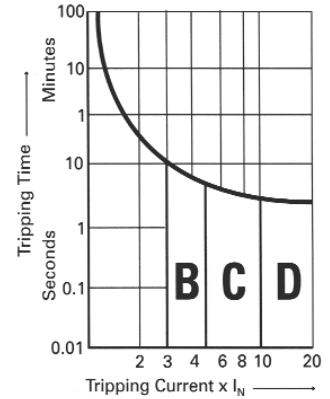
DLS 6 range - rated up to 63 A

Specifications	EN 60898-1
Rated breaking capacity	Characteristic B HB 6kA
	IB 10kA
	Characteristic C IC 10 kA
	Characteristic D ID 10 kA
Max. operating voltage	$U_{emax} = 440 \text{ V AC}, 60 \text{ V DC}$
Min. operating voltage	$U_{emin} = 12 \text{ V AC/DC}$
Back-up protection	125 A gL/gG
Protection (EN60529)	IP20
Positioning optional	
Mounting	on 35mm rail conforming to EN 60715
Mech. service life	min. 20.000 switching cycles
Ambient temperature	-25°C to +55°C
Terminal Screws	Max. torque 2.5 Nm

Dimensions



Tripping Characteristics

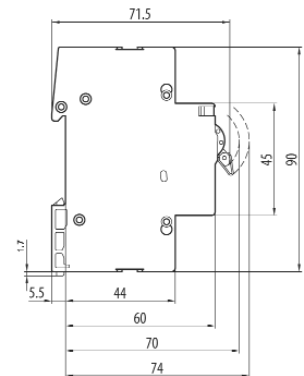
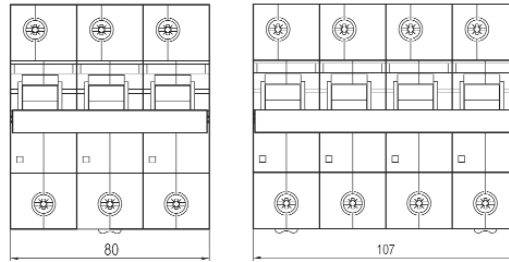


Miniature Circuit Breakers (80 - 125A)

Technical Data

C10 range - rated 80 A to 125A

Specifications	EN 60898-1
Tripping Characteristics	"C"
Max. operating voltage	$U_{emax} = 400 \text{ V}, 40/60 \text{ Hz}$
	48 V DC
Min. operating voltage	$U_{emin} = 12 \text{ V AC/DC}$
Breaking capacity	10kA
Ambient temperature	-30°C to +55°C
Connection	1.5 - 50 mm ² , 2 x (1.5 - 16mm ²)
Terminal Screws	Max. torque 3.5 Nm



Dimensions

Switchgear (Isolators & Switchfuses)

Reference	IP rating	Cu cable section (mm ²)		Stud Size	Extension Box	Fuse Link Bussman	Dimensions (mm)			Extension Box (Dim)		
		Min	Max				H	W	D	H	W	D

ISOLATORS

DS-3020	IP54	2.5	16	-	No	n/a	215	180	135	n/a		
DS-3032	IP54	4	16	-	No	n/a	215	180	135	n/a		
DS-3063	IP54	10	50	-	No	n/a	215	180	135	n/a		
DS-3100	IP54	25	50	-	No	n/a	215	180	135	n/a		
DS-3160	IP55	10	95	M8	No	n/a	300	270	150	n/a		
DS-3200	IP55	10	95	M8	No	n/a	300	270	150	n/a		
DS-3250	IP55	95	150	M10	EX03	n/a	395	320	175	275	320	175
DS-3400	IP55	185	240	M10	EX04	n/a	600	450	275	600	450	275
DS-3630	IP55	2 x 150	2 x 300	M12	EX04	n/a	600	450	275	600	450	275

SWITCHFUSES

DSF-3020	IP54	2.5	16	-	No	NITD20	215	180	135	n/a		
DSF-3032	IP54	2.5	16	-	No	NITD32	215	180	135	n/a		
DSF-3063	IP55	10	25	-	No	BA063	300	270	150	n/a		
DSF-3100	IP55	25	95	M8	EX03	CE0100	395	320	175	275	320	175
DSF-3160	IP55	35	95	M8	EX03	DE0160	395	320	175	275	320	175
DSF-3200	IP55	50	95	M8	EX03	DE0200	395	320	175	275	320	175
DSF-3250	IP55	95	240	M10	EX04	ED250	600	450	275	600	450	275
DSF-3400	IP55	185	240	M10	EX04	ED400	600	450	275	600	450	275
DSF-3630	IP55	2 x 150	2 x 300	M12	EX05	FF630	750	550	300	750	550	300