

## HIGH BREAKING CAPACITY LEVEL MOULDED CASE CIRCUIT BREAKERS (MCCB)

### DS1 MAX TO 800A- ELECTRONIC TYPE



#### Functions:

- high breaking capacity level
- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- can be used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics
- control: manual
- possibilities for electrical module parameters adjustment through direct modules (combination of keys) thus providing accurate protection from overload and short circuit
- simultaneous protection of the three phases
- possibility for auxiliary devices mounting for automation
- contactor for TT test 15V DC

<b>Technical data:</b>	
<b>Rated operating voltage:</b>	415/690V; 50/60Hz
<b>Isolating voltage:</b>	2000V
<b>Surge voltage wear resistance:</b>	≥8000V
<b>Joining terminal:</b>	<b>flat (tunnel) screw terminal</b>
<b>Connecting:</b>	<ul style="list-style-type: none"> <li>▪ rigid or flexible conductors</li> <li>▪ front conductors joining</li> <li>▪ possibility for mounting to lengthening terminal</li> </ul>
<b>Abnormal heating wear resistance and fire of the outer parts:</b>	960°C
<b>Electrical wear resistance (number of cycles):</b>	≥10000
<b>Mechanical wear resistance (number of cycles):</b>	≥20000
<b>IP code:</b>	IP>20
<b>Plastic material of UV rays and non- flammable</b>	
<b>Test button</b>	
<b>Ambient temperature:</b>	-20°÷65°C

## Mounting:

- vertical on a smooth surface using bolts

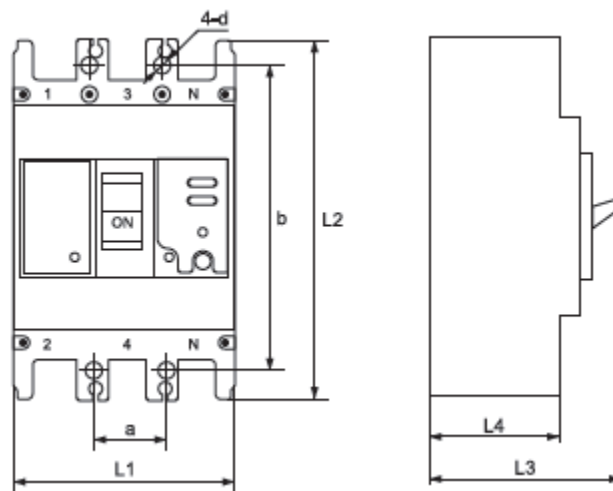
## Advantages:

- Wide range of auxiliary devices for automation
- High breaking capacity level
- Extreme reliability and performance
- Easy adjustment of the electronic device
- High reliability and efficiency
- Easy mounting and installation

## Applications:

- Residential buildings
- Administrative buildings
- Commercial property
- Industrial applications
- Distribution boards

## Dimensions:



Dimensions  
(mm)

Type	L1	L2	L3	L4	a	b	d
DS1 MAX - 400E 3P	150	257	146	106	44	194	7
DS1 MAX - 630E 3P	182	270	155	116	116	200	7
DS1 MAX - 800E 3P	210	280	155	116	70	243	7
DS1 MAX - 400E 4P	198	257	146	106	44	194	7
DS1 MAX - 630E 4P	240	270	155	116	116	200	7
DS1 MAX - 800E 4P	280	280	155	116	70	243	7

## Basic data:

Type	Rated current In (A)	Operating breaking capacity Ics (kA)	Maximum breaking capacity Icu (kA)		Thermal current adjustment (A)	Packing/ Box (pcs)	Catalogue number three- poles	Catalogue number four-poles
			415V	690V				
DS1 MAX - 400E	400	50	85	30	200-400	1 / 3	44940MH	444940MH
DS1 MAX - 630E	630	50	85	30	400-630	1 / 2	44963MH	444963MH
DS1 MAX - 800E	800	65	100	50	630-800	1 / 2	44980MH	444980MH

## Tripping characteristic:

**Ir1(A)** Over-load long time delay tripping current

**Ir1** adjustment, according to the different rated current of MCCB.

**t1(s)** Long time delay tripping time t1 adjustment.

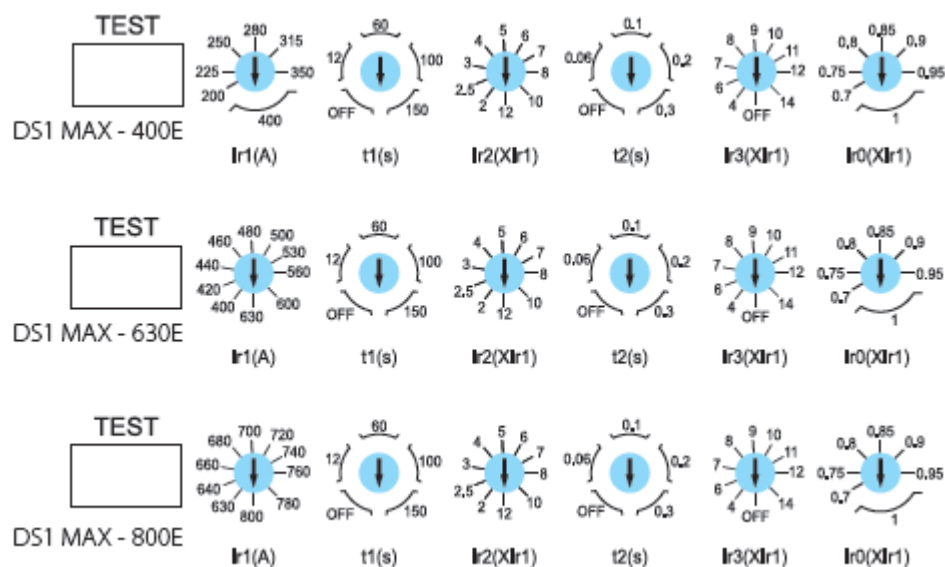
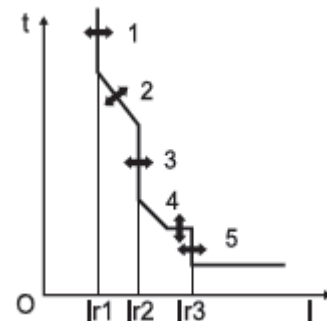
**Ir2(XIr1)** Short circuit short time delay tripping time Ir2 adjustment.

**t2(s)** Short time delay tripping time t2 adjustment.

**Ir3(XIr1)** Short circuit instantaneous tripping current Ir3 adjustment.

**Ir0(XIr1)** Pre-alarm tripping current

**Ir0** adjustment.



## Standards:

- EN 60947-1
- EN 60947-2

