MOULDED CASE CIRCUIT BREAKERS (MCCB)

DS1 series to 1600A

ELECTRONIC TYPE

Functions:

- 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

Technical data:	
Rated operating voltage:	415/690V; 50/60Hz
Isolating voltage:	2000V
Surge voltage wear resistance:	≥8000V
Joining terminal:	flat (tunnel) screw terminal
Connecting:	▪ rigid or flexible conductors ▪ front conductors joining ▪ possibility for mounting to lengthening terminal
Abnormal heating wear resistance and fire of the outer parts:	960°C
Electrical wear resistance (number of cycles):	≥10000
Mechanical wear resistance (number of cycles):	≥20000
IP code:	IP>20
Plastic material of UV rays and non- flammable	
Test button	
Ambient temperature:	-20°÷65ºC

Mounting:

- vertical on a smooth surface using bolts

Advantages:

- Wide range of auxiliary devices
- Easy adjustment of the elecronic device
- High reliability and efficiency
- High electrical and mechanical wear resistance
- Compact size
- Easy mounting and installation

Applications:

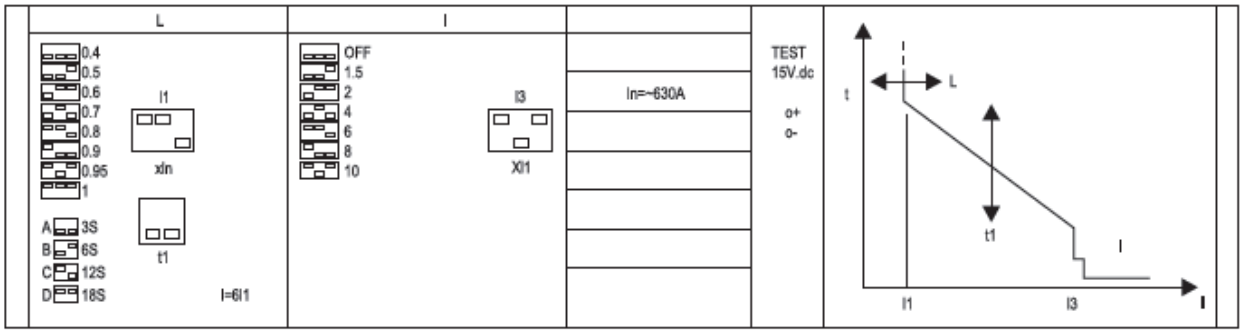
- Residential buildings
- Administrative buildings
- Commercial property
- Industrial applications
- Distribution boards

Protecting functions:

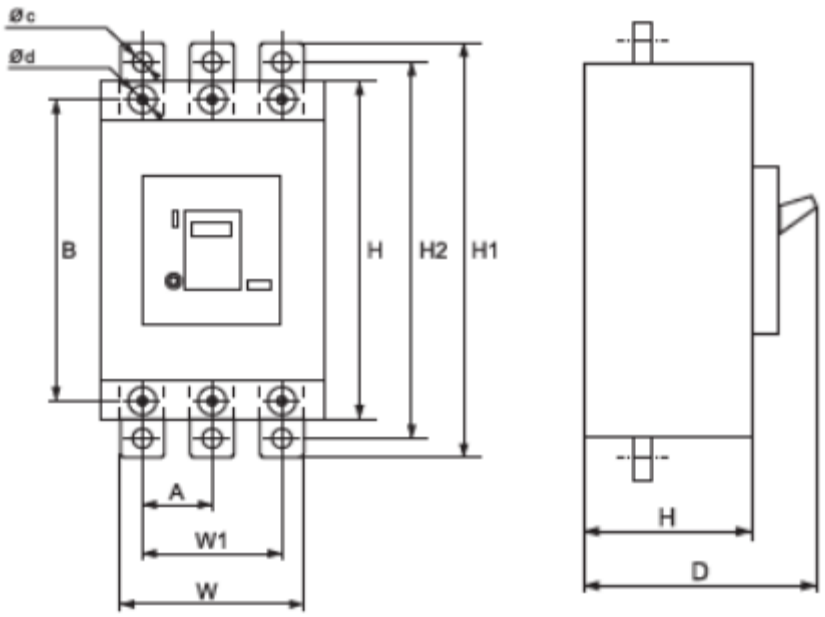
Function L – step adjustment for protection against overload. Adjustment of the operating current I1=0.4+1xIn with discreet coefficients as the value can be 0.4; 0.5; 0.6; 0.7; 0.8; 0.9; 0.95 and 1

Time delay adjustment t1 of the protection against overload – step adjustment with four values A-3s; B-6s; C- 12s; D-18s when current is I=6I1. The diagram of the current curves is presented on fig.1

Adjustment of the transitory protection current against short circuit I3=X x I1 where X can take discreet value OFF; 1.5; 2; 4; 6; 8; 10



Dimensions:



Dimensions
(mm)

Type	W	H	D	H1	D1	A	B	W1	H2	Ø d	Ø c
DS1-400E	140	257	104	316	144	44	214	87.5	285	6	11
DS1-630E	210	275	104	310	172	70	230	140	280	6	11
DS1-800E	210	275	104	347	172	70	230	140	307	6	16
DS1-1600E	210	410	140	410	210	70	300	140	350	10	12

Basic data:

Type	Rated current In (A)	Operating breaking capacity Ics (kA)	Maximum breaking capacity Icu (kA)		Thermal current adjustment (A)	Section of the conductor (mm2)	Packing/ Box (pcs)	Catalogue number three-poles
			415V	690V				
DS1-400E	400	50	65	25	160-400	240	1 / 3	44940
DS1-630E	630	65	75	25	252-630	240	1 / 2	44963
DS1-800E	800	65	75	30	320-800	240	1 / 2	44980
DS1-1250E	1000	85	100	65	400-1000	240	1 / 1	44999
DS1-1250E	1250	85	100	65	500-1250	240	1 / 1	44925
DS1-1600E	1600	85	100	65	640-1600	240	1 / 1	44960

Standards:

- EN 60947-1
- EN 60947-2