

#### Documents corresponding to the product:

Standard EN 60947-1  
EN 60947-2



### Moulded case circuit breakers (MCCB) DS1 to 1600A-electronic type

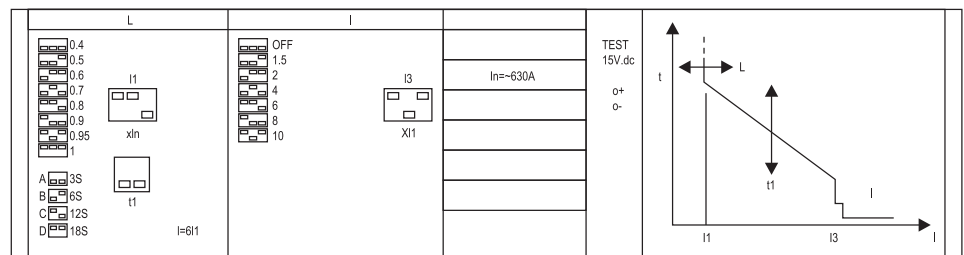
**7 YEAR WARRANTY** \*for industrial usage, 3 years warranty

#### Functions:

- switching on/off heavily 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:  $\geq 8000V$
- Joining terminal: flat (tunnel) screw terminal
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal
- Electrical wear resistance (number of cycles):  $\geq 10000$
- Mechanical wear resistance (number of cycles):  $\geq 20000$
- IP code: IP>20
- Abnormal heating wear resistance and fire of the outer parts: 960°C
- Mounting:
  - joining with bolts
  - mounting position: vertical
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature:  $-20^{\circ} \div 65^{\circ}C$



#### Protecting functions:

Function L – step adjustment for protection against overload. Adjustment of the operating current  $I1=0.4+1xIn$  with discrete 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  $I3=X \times I1$  where X can take discrete value OFF; 1.5; 2; 4; 6; 8; 10

Type	Rated current $I_n$ (A)	Operating breaking capacity (kA) $I_{cs}$	Maximum breaking capacity (kA) $I_{cu}$		Thermal current adjustment (A)	Section of the conductor (mm <sup>2</sup> )	Packing/Box (pcs)	Catalogue number tree-poles
			415V	690V				
DS1 - 400E	400	50	65	25	160 - 400	240	1 / 3	<b>44940</b>
DS1 - 630E	630	65	75	25	252 - 630	185	1 / 2	<b>44963</b>
DS1 - 800E	800	65	75	30	320 - 800	240	1 / 2	<b>44980</b>
DS1 - 1250E	1000	85	100	65	400 - 1000	240	1 / 1	<b>44999</b>
DS1 - 1250E	1250	85	100	65	500 - 1250	240	1 / 1	<b>44925</b>
DS1 - 1600E	1600	85	100	65	640 - 1600	240	1 / 1	<b>44960</b>