Documents corresponding to the product:
Standard EN 60947-1
EN 60947-3 and IEC 60947-6

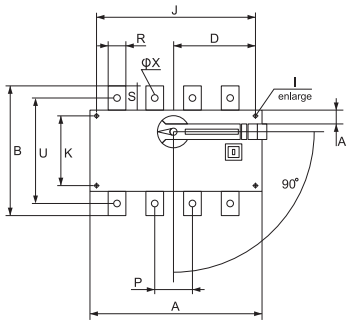
Switch disconnectors ISS2 125...800A

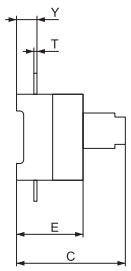
5 YEAR WARRANTY *for industrial usage, 3 years warranty

The series three- and four-pole load switch disconnectors ISS2 xxx are produced for mounting in main electrical boards for disconnection of the circuits, switching on of generators because of the fact they are not affected by the frequency variations. High mechanical strength and resistance to circulation. Simple and secure management. There is a possibility for the products to be produced with an window for visible disconnection.

Functions:
- switching on and off of electrical circuits under load
- disconnection of electrical circuits
- used as main circuit-breaker
- resistant to high voltages, to short circuits in the protected circuit
- it has no protective function

Technical features:
- Rated voltage: not higher than 660V; 50/60Hz
- Double connector: screw connection
- Connection: solid or flexible conductors
- Insulation voltage: ≥1000V
- Resistance to impulse voltage: 8000V
- Electrical endurance (number of cycles): ≥5 000
- Mechanical endurance (number of cycles): ≥10 000
- IP code: IP>20
- Mounting method: to a surface by means of bolts
- Plastic resistant to UV raysPlastic resistant to UV rays
- Ambient temperature: -20°÷65°C





Type	Dimensions (mm)											
	A	B	C	D	E	J	J1	K	R	S	T	Y
ISS2-125/3	140	135	125	27	73	120	120	65	20	25	3.5	25
ISS2-125/4	170	135	125	27	73	150	150	65	20	25	3.5	25
ISS2-160/3	140	135	125	27	73	120	120	65	20	25	3.5	25
ISS2-160/4	170	135	125	27	73	150	150	65	20	25	3.5	25
ISS2-250/3	180	170	138	35	86	160	160	90	25	30	3.5	25
ISS2-250/4	230	170	138	35	86	210	210	90	25	30	3.5	25
ISS2-400/3	230	240	165	50	110	210	210	140	32	40	5	37
ISS2-400/4	295	240	165	50	110	275	275	140	32	40	5	37
ISS2-630/3	230	260	165	50	110	210	210	140	40	50	6	37
ISS2-630/4	295	260	165	50	110	275	275	140	40	50	6	37
ISS2-800/3	378	312	240	50	140	353	353	175	60	56	8	48
ISS2-800/4	498	312	240	50	140	473	473	175	60	56	8	48

Type	Rated current In (A)	Maximum breaking capacity Icu (A)	Tightening moment (Nm)	Packing/Box (pcs)	Catalogue number three-pole	Catalogue number four-pole
ISS2-125in	125	1250	6.5	1 / 12	**41951**	**41961**
ISS2-125out	125	1250	6.5	1 / 12	**41952**	**41962**
ISS2-160in	160	1250	6.5	1 / 12	**41953**	**41963**
ISS2-160out	160	1250	6.5	1 / 12	**41954**	**41964**
ISS2-250in	250	2000	10	1 / 6	**41955**	**41965**
ISS2-250out	250	2000	10	1 / 6	**41956**	**41966**
ISS2-400in	400	3200	14.5	1 / 2	**41957**	**41967**
ISS2-630in	630	4000	14.5	1 / 2	**41958**	**41968**
ISS2-800in	800	1000	27	1 / 2	**41959**	**41969**

Note: ISS2-xxx in – load circuit-breaker for mounting in the interior of a board
ISS2 -xxx out – load circuit-breaker with an extended lever for mounting on the front panel of the board

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-3 and IEC 60947-6

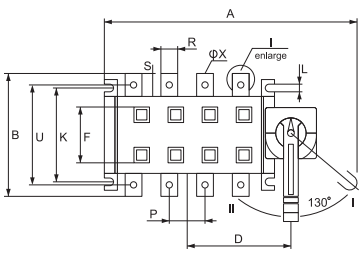
Manual switching to reserve series EQ 2M from 160...800A

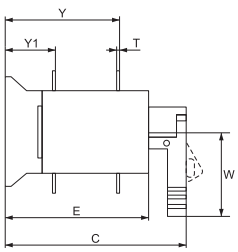
5 YEAR WARRANTY *for industrial usage, 3 years warranty

The series three- and four-pole load isolating switch EQ 2 M xxx are produced for mounting in main electrical boards for disconnection of the circuits, manual switching between two power supplies or switching ON of generators because of the fact they are not affected by the frequency variations. High mechanical strength and resistance to circulation. Simple and secure management. There is a possibility for the products to be produced with an window for visible disconnection.

Functions:
- switching on and off of low voltage electrical circuits under load
- disconnection of the electrical circuit from one of the power supplies, while providing immediately switching to the other
- used as main switch
- resistant to high voltages, to short circuits in the protected circuit
- it has no protective function

Technical characteristics:
- Rated voltage: not higher than 690V; 50/60Hz
- Double connector: screw connection
- Connection: hard or flexible conductors
- Insulation voltage: ≥1000V
- Resistance to impulse voltage: 8000V
- Electrical endurance (number of cycles): ≥5 000
- Mechanical endurance (number of cycles): ≥10 000
- IP code: IP>20
- Mounting method: to a surface by means of bolts
- Plastic resistant to UV rays
- Ambient temperature: -20°÷65ºC
- Option for moving the handle on the front panel of the board
- Small size
- Indication which of the two supplies is operating

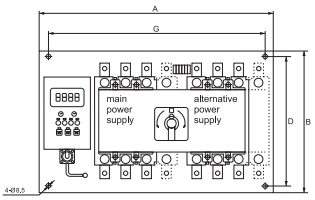


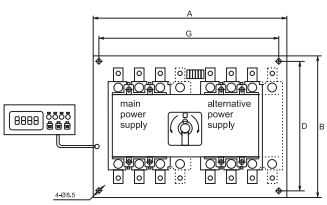


Type	Dimensions (mm)												
	A	B	C	D	E	J	J1	K	R	S	T	Y	Y1
EQ2M-160/3	270	135	212	89	150	120	65	95	20	25	3.5	55	25
EQ2M-160/4	300	135	212	104	150	150	65	95	20	25	3.5	55	25
EQ2M-250/3	307	170	260	110	180	160	65	115	25	30	3.5	70	25
EQ2M-250/4	357	170	260	135	180	210	65	115	25	30	3.5	70	25
EQ2M-400/3	372	240	297	150	236	210	77	180	32	40	5	83	37
EQ2M-400/4	432	240	297	180	236	275	77	180	32	40	5	83	37
EQ2M-630/3	372	240	297	150	236	210	77	180	40	50	6	83	37
EQ2M-630/4	432	240	297	180	236	275	77	180	40	50	6	83	37
EQ2M-8003	372	240	297	150	236	210	77	180	60	56	8	83	48
EQ2M-800/4	432	240	297	180	236	275	77	180	60	56	8	83	48

Type	Rated current In (A)	Maximum breaking capacity Icu (A)	Tightening moment (Nm)	Packing/Box (pcs)	Catalogue number three-pole	Catalogue number four-pole
EQ2M-160	160	1250	6.5	1 / 4	**44641**	**44641P**
EQ2M-250	250	2000	10	1 / 2	**44642**	**44642P**
EQ2M-400	400	3200	14.5	1 / 2	**44643**	**44643P**
EQ2M-630	630	4000	14.5	1 / 2	**44644**	**44644P**
EQ2M-800	800	1000	27	1 / 2	**44645**	**44645P**

Documents corresponding to the product:
EN 60947-1
EN 60947-2; EN 60947-6-1





Dual power change-over switch EQ1 series (ATS)

5 YEAR WARRANTY *for industrial usage, 3 years warranty

The system for dual power change-over switch EQ1 is designed to provide continuous power supply and two electrical sources automatic switch in case of failure or deviation from the set parameters. It switches only when the three phases of the second power supply source are available. The system for dual power change-over switch consists of two molded case circuit breakers mounted on a metal frame connected with common operating mechanism and controlled by a command device that controls the system parameters' correspondence.

Functions:

- Switching on/off heavy loaded electrical circuits at main power supply discrepancy
- Switching to dual power change-over at power supply phase lack
- with option to connect to fire alarm controller. In case of fire, the ATS switches off both power supply sources
- Breaking of electrical circuits and control of powerful consumers
- Used as a main breaker in housing or industrial distributing installations supplied with a generator or a second power supply source (hospitals, post offices, military sites, control rooms)
- Remarkable with high reliability of current characteristics
- Control: motor
- Controls the following circuit parameters:
  - presence of the three phases
  - the phase voltage to be in the set limits
  - overload
  - short circuit at the outlet

Technical data:

- Rated operating voltage: 690V; 50/60Hz
- Surge voltage wear resistance: ≥6000V
- Joining terminal: bolt connection with 4 bolts to the power supply rail
- Connecting:
  - copper rails
  - flexible or rigid conductors
- Electrical wear resistance (number of cycles): ≥2000
- Mechanical wear resistance (number of cycles): ≥6000
- IP code: IP21
- Mounting:
  - clamping with bolts
  - mounting position: vertical gradient – maximum 5°
- Plastic material of the breakers of UV rays and non-flammable
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

Basic functions of the control device:

- Overload protection
- Instantaneous short circuit protection
- Under phase protection
- Undervoltage protection
- Possibility for setting the change-over time between the two sources – min 3s
- Possibility for automatic switch-over to the main power supply source after restoring its parameters

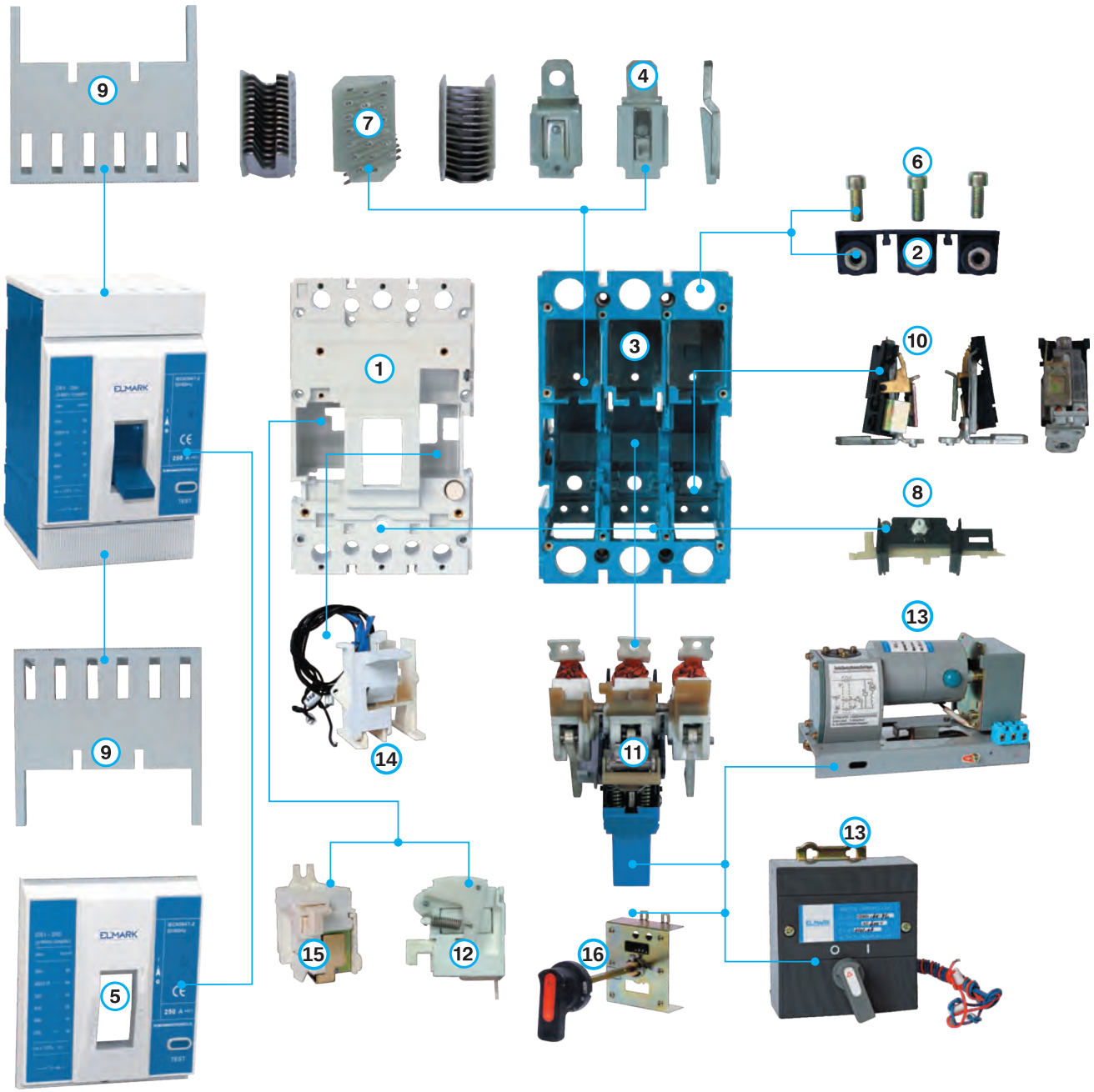
The system for dual power change-over switch is offered in two types:

- with display (control device) mounted on the mounting plate (integrated type)
- with separated control display

Type of the breaker	Type	Overall dimensions (mm)				
		A	B	C	D	H
EQ1 - 100	inner type	480	240	450	210	140
EQ1 - 225	inner type	480	240	450	210	140
EQ1 - 400	inner type	620	300	590	270	235
EQ1 - 630	inner type	660	300	630	270	240
EQ1 - 800	inner type					
EQ1 - 100*	moved type	420	230	390	200	145
EQ1 - 225*	moved type	420	230	390	200	145
EQ1 - 400*	moved type	570	300	540	270	235
EQ1 - 630*	moved type	610	300	580	270	240
EQ1 - 800*	moved type					

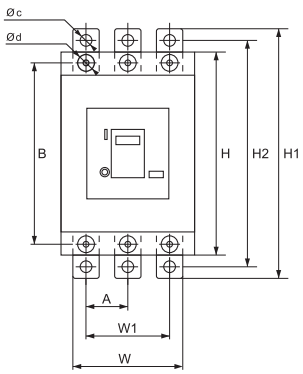
Type	Rated current In (A)	Max. breaking capacity (kA) Icu	Operating breaking capacity (kA) Ics	Section of the power supply conductor (mm^2)	Electrical wear resistance (number of cycles)	Mechanical wear resistance (number of cycles)	Packing / Box (pcs)	Catalogue number
EQ1 - 100	100	50	35	35	2000	6000	1 / 1	**44100**
EQ1 - 225	225	50	35	70	2000	6000	1 / 1	**44225**
EQ1 - 400	400	100	65	180	2000	6000	1 / 1	**44403**
EQ1 - 630	630	100	65	240	1000	3000	1 / 1	**44633**
EQ1 - 800	800	100	65	240	1000	3000	1 / 1	**44833**
EQ1 - 100*	100	50	35	35	2000	6000	1 / 1	**44101**
EQ1 - 225*	225	50	35	70	2000	6000	1 / 1	**44226**
EQ1 - 400*	400	100	65	180	2000	6000	1 / 1	**44404**
EQ1 - 630*	630	100	65	240	1000	3000	1 / 1	**44634**
EQ1 - 800*	800	100	65	240	1000	3000	1 / 1	**44834**

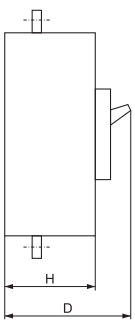
Note: *Dual power change-over switch with separated control display



1. COVER
2. TERMINALS
3. NON-FLAMABLE BASE
4. STATIC CONTACTS
5. PART FROM THE COVER
6. SCREWS FOR TERMINALS
7. ARC CHAMBERS
8. ELEMENT FOR ADJUSTMENT
9. TERMINAL PLASTIC PLATE
10. CONTACTS WITH BIMETAL PLATES
11. THERMAL SYSTEM WITH MOVABLE CONTACTS
12. UNDER VOLTAGE RELEASE - UVR (accessory)
13. REMOTE CONTROL – electrical (accessory)
14. AUXILIARY CONTACT (accessory)
15. SHUNT RELEASE (accessory)
16. REMOTE CONTROL – manual (accessory)

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2





Moulded case circuit breakers (MCCB) DS1 series from 40...1250A

7 YEAR WARRANTY *for industrial usage, 3 years warranty

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
- possibility for auxiliary devices mounting for automation

Technical data:
- Rated operating voltage: 415/690V; 50/60Hz
- Isolating voltage: 2000V
- Surge voltage wear resistance: ≥8000V
- Joining terminal: flat (tunnel) screw terminal for the breakers up to 160A and a bolt connection for the breakers from 250A to 1600A
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal
- Plastic elements
  - not keeping the burning material nylon PA66
  - box permitivity strength: >16MV/m
- Abnormal heating wear resistance and fire of the outer parts: 960°C
- Static contacts – alloy: pure copper T2Y2
  - contact head: silver graphite CAg(5)
  - thickness: depends on the current
- Tightening moment: 1.33Nm
- Electrical wear resistance (number of cycles):≥10000
- Mechanical wear resistance (number of cycles):≥20000
- IP code: IP>20
- Mounting:
  - joining with bolts
  - mounting position: vertical
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature: -20°÷65°C

Type	Overall dimensions (mm)					Installation dimensions (mm)					
	W	H	D	H1	D1	A	B	W1	H2	Ø d	Ø e
DS1-125/3P	76.2	120	70		90	25	100	50		4	
DS1-160/3P	90	120	70		93	30	100	60		5	
DS1-250/3P	105	170	104	238	143.5	35	139	70	210	6	8.5
DS1-400/3P	140	257	104	316	144	44	214	87.5	285	6	11
DS1-630/3P	210	275	104	310	172	70	230	140	280	6	11
DS1-800/3P	210	275	104	347	172	70	230	140	307	6	16
DS1-1600/3P	210	410	140	410	210	70	300	140	350	10	12
DS1-125/4P	110	120	70		90	25	100	50		4	
DS1-160/4P	120	120	70		93	30	100	60		5	
DS1-250/4P	140	170	104	238	143.5	35	139	70	210	6	8.5
DS1-400/4P	184	257	104	316	144	44	214	87.5	285	6	11
DS1-630/4P	280	275	104	310	172	70	230	140	280	6	11
DS1-800/4P	280	275	104	347	172	70	230	140	307	6	16
DS1-1600/4P	280	410	140	410	210	70	300	140	350	10	12

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu		Thermal current adjustment (A)	Section of the conductor (mm2)	Packing/ Box (pcs)	Catalogue number tree-poles	Catalogue number four-poles
			415V	690V					
DS1-125	40	16	35	10	fixed	16	1 / 20	**44040**	**444040**
DS1-125	50	16	35	10	fixed	16	1 / 20	**44050**	**444050**
DS1-125	63	16	35	10	fixed	25	1 / 20	**44063**	**444063**
DS1-125	80	16	35	10	fixed	25	1 / 20	**44080**	**444080**
DS1-125	100	16	35	10	fixed	35	1 / 20	**44090**	**444090**
DS1-125	125	16	35	10	fixed	50	1 / 20	**44125**	**444125**

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	690V	Thermal current adjustment (A)	Section of the conductor (mm2)	Packing/ Box (pcs)	Catalogue number tree-poles	Catalogue number four-poles
DS1 - 160	63	22	35	15	44 - 63	25	1 / 16	**44163**	**444163**
DS1 - 160	80	22	35	15	56 - 80	25	1 / 16	**44164**	**444164**
DS1 - 160	100	22	35	15	70 - 100	50	1 / 16	**44165**	**444165**
DS1 - 160	125	22	35	15	88 - 125	50	1 / 16	**44166**	**444166**
DS1 - 160	160	22	35	15	112 - 160	70	1 / 16	**44160**	**444160**
DS1 - 160	160	22	35	15	fixed	70	1/16	**441601**	-

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	690V	Thermal current adjustment (A)	Section of the conductor (mm2)	Packing/ Box (pcs)	Catalogue number tree-poles	Catalogue number four-poles
DS1 - 250	200	35	50	15	140 - 200	120	1 / 6	**44200**	**444200**
DS1 - 250	250	35	50	15	175 - 250	120	1 / 6	**44250**	**444250**

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	690V	Thermal current adjustment (A)	Section of the conductor (mm2)	Packing/ Box (pcs)	Catalogue number tree-poles	Catalogue number four-poles
DS 1 - 400	315	50	65	25	fixed	240	1 / 3	**44315**	**444315**
DS 1 - 400	400	50	65	25	fixed	240	1 / 3	**44401**	**444401**

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	690V	Thermal current adjustment (A)	Section of the conductor (mm2)	Packing/ Box (pcs)	Catalogue number tree-poles	Catalogue number four-poles
DS1 - 630	500	65	75	25	fixed	185	1 / 2	**44500**	**444500**
DS1 - 630	630	65	75	25	fixed	185	1 / 2	**44630**	**444630**
DS1 - 800	800	75	85	30	fixed	240	1 / 2	**44800**	**444800**

Type	Rated current In (A)	Max. breaking capacity (kA) Icu	Operating breaking capacity (kA) Ics	Section of the power supply conductor (mm2)	Protection from overload	Packing/Box (pcs)	Catalogue number
DS1 - 1250	1000	85	65	240	fixed	1 / 1	**44000**
DS1 - 1250	1250	85	65	240	fixed	1 / 1	**44502**

Moulded case circuit breakers (MCCB) DS1 with lock

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	690V	Thermal current adjustment (A)	Section of the conductor (mm2)	Packing/ Box (pcs)	Catalogue number tree-poles
DS1 - 125	125	16	35	10	fixed	25	1/20	**44163K**
DS1 - 250	160	35	50	15	125-160	25	1/16	**44160K**
DS1 - 250	250	35	50	15	160-250	50	1/6	**44250K**
DS1 - 400	400	50	65	25	fixed	50	1/3	**44401K**
DS1 - 630	630	65	75	25	fixed	185	1/2	**44630K**
DS1 - 800	800	75	85	30	fixed	240	1/2	**44800K**

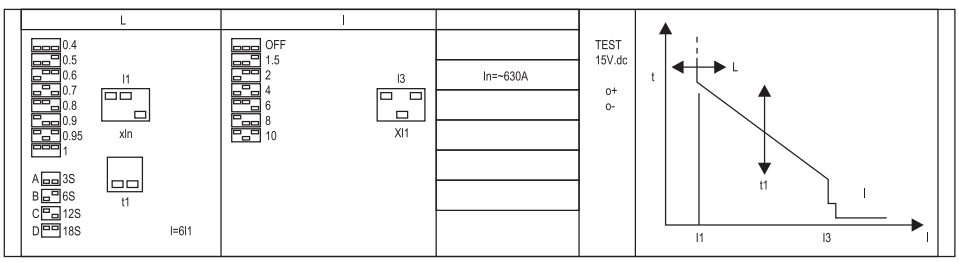
Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2

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

7 YEAR WARRANTY *for industrial usage, 3 years warranty

Functions:
- switching on/off 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

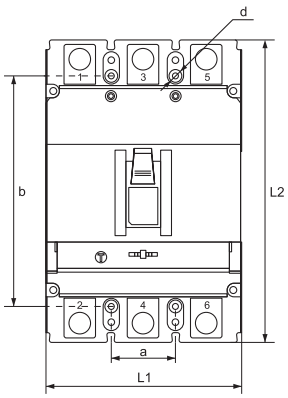
Technical data:
- Rated operating voltage: 415/690V; 50/60Hz
- Isolating voltage: 2000V
- Surge voltage wear resistance: ≥8000V
- Joining terminal: flat (tunnel) screw terminal
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal
- Electrical wear resistance (number of cycles):≥10000
- Mechanical wear resistance (number of cycles):≥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°÷65°C

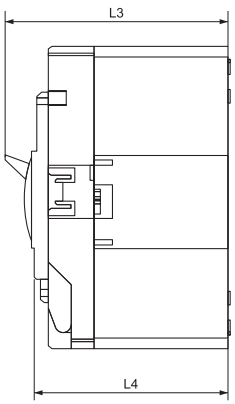


Protecting functions:
Function L – step adjustment for protection against overload. Adjustment of the operating current I1=0.4+1xIn with discreet coefficients as the value can be 0.4; 0.5; 0.6; 0.7; 0.8; 0.9; 0.95 and 1
Time delay adjustment t1 of the protection against overload – step adjustment with 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

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	Maximum breaking capacity (kA) Icu 690V	Thermal current adjustment (A)	Section of the conductor (mm2)	Packing/ Box (pcs)	Catalogue number tree-poles
DS1 - 400E	400	50	65	25	160 - 400	240	1 / 3	**44940**
DS1 - 630E	630	65	75	25	252 - 630	185	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**

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2





High breaking capacity level moulded case circuit breakers (MCCB) DS1 MAX from 63A... 800A

7 YEAR WARRANTY *for industrial usage, 3 years warranty

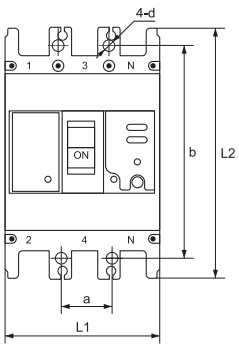
Functions:
- high breaking capacity level
- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- can be used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics control: manual
- possibility for auxiliary devices mounting for automation

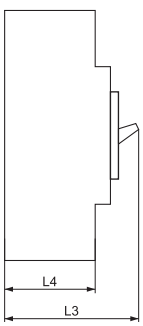
Technical data:
- Rated operating voltage: 415/690V; 50/60Hz
- Isolating voltage: 2000V
- Surge voltage wear resistance: ≥8000V
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal
- Plastic elements
  - not keeping the burning material nylon PA66
  - box permitivity strength: >16MV/m
- Abnormal heating wear resistance and fire of the outer parts: 960°C
- Static contacts – alloy: pure copper T2Y2
  - acontact head: silver graphite CAg(5)
  - athickness: depends on the current
- Tightening moment: 1.33Nm
- Electrical wear resistance (number of cycles): ≥10000
- Mechanical wear resistance (number of cycles): ≥20000
- IP code: IP>20
- Mounting:
  - joining with bolts
  - mounting position: vertical
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature: -20°/65°C.

Type	Overall dimensions (mm)						
	L1	L2	L3	L4	a	b	d
DS1 MAX 125/63 3P M	92	150	110	92	30	129	4.5
DS1 MAX 125/80 3PM	92	150	110	92	30	129	4.5
DS1 MAX 125/100 3P M	92	150	110	92	30	129	4.5
DS1 MAX 125/125 3P M	92	150	110	92	30	129	4.5
DS1 MAX 250/160 3P M	92	165	110	90	35	126	4.5
DS1 MAX 250/200 3P M	107	165	110	90	35	126	4.5
DS1 MAX 250/250 3P H	107	165	110	90	35	126	4.5
DS1 MAX 400/400 3P H	150	257	146	106	44	194	7
DS1 MAX 630/630 3P H	182	270	155	116	116	200	7
DS1 MAX 800/800 3P H	210	28	155	116	70	243	7
DS1 MAX 125/63 4P M	122	150	110	92	60	129	4.5
DS1 MAX 125/80 4PM	122	150	110	92	60	129	4.5
DS1 MAX 125/100 4P M	122	150	110	92	60	129	4.5
DS1 MAX 125/125 4P M	122	150	110	92	60	129	4.5
DS1 MAX 250/160 4P M	142	165	110	90	70	126	4.5
DS1 MAX 250/200 4P M	142	165	110	90	70	126	4.5
DS1 MAX 250/250 4P H	142	165	110	90	70	126	4.5
DS1 MAX 400/400 4P H	198	257	146	106	44	194	7
DS1 MAX 630/630 4P H	240	270	155	116	116	200	7
DS1 MAX 800/800 4P H	280	280	155	116	70	243	7

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu		Thermal current adjusment (A)	Packing/ box	Catalogue number three-poles	Catalogue number four-poles
			415V	690V				
DS1 MAX - 125	63	36	50	20	50,4-63	1/16	**44163MM**	**444163MM**
DS1 MAX - 125	80	36	50	20	64-80	1/16	**44164MM**	**444164MM**
DS1 MAX - 125	100	36	50	20	80-100	1/16	**44165MM**	**444165MM**
DS1 MAX - 125	125	36	50	20	100-125	1/16	**44166MM**	**444166MM**
DS1 MAX - 250	160	36	50	20	128-160	1/6	**44160MM**	**444160MM**
DS1 MAX - 250	200	36	50	20	160-200	1/6	**44200MM**	**444200MM**
DS1 MAX - 250	250	42	65	25	200-250	1/6	**44250MH**	**444250MH**
DS1 MAX - 400	400	50	85	30	320-400	1/3	**44401MH**	**444401MH**
DS1 MAX - 630	630	50	85	30	504-630	1/2	**44630MH**	**444630MH**
DS1 MAX - 800	800	65	100	50	640-800	1/2	**44800MH**	**444800MH**

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2





High breaking capacity level moulded case circuit breakers (MCCB) DS1 MAX with ELCB

7 YEAR WARRANTY *for industrial usage, 3 years warranty

Earth Leakage Circuit Breaker (ELCB). Combine all functions of a standard circuit breaker, and prevent the consequences caused by short circuit, overload and shock. Widely used product for protection of low voltage circuits from fire.

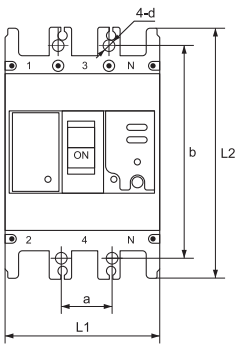
Technical data:

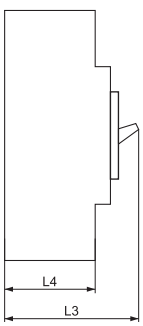
- Rated operating voltage: 415/690V; 50/60Hz
- Rated residual operating current IΔn (mA) - 100mA; 300mA 500mA- adjustable
- Tripping time IΔn- instantaneous; 0.4s; 1s -adjustable
- Max delayed 2 In limit non-actuating time 1s 0.2/0.5
- Isolating voltage: 2000V.
- Surge voltage wear resistance: ≥8000V
- Joining terminal: flat (tunnel) screw terminal.
- Connecting:
  - rigid or flexible conductors
  - front conductors joining
  - possibility for mounting to lengthening terminal.
- Electrical wear resistance (number of cycles):≥ 10000.
- Mechanical wear resistance (number of cycles):≥ 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.
- Residual indicating push button
- Test button.
- Ambient temperature: -20°÷65°C

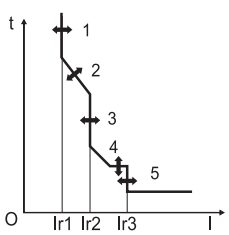
Type	Overall dimensions (mm)						
	L1	L2	L3	L4	a	b	d
DS1 MAX 225/125 3P M	92	150	110	92	30	129	4.5
DS1 MAX 400/250 3P H	150	257	146	106	44	194	7
DS1 MAX 400/400 3P H	150	257	146	106	44	194	7
DS1 MAX 225/125 4P M	122	150	110	92	60	129	4.5
DS1 MAX 400/250 4P H	198	257	146	106	44	194	7
DS1 MAX 400/400 4P H	198	257	146	106	44	194	7

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu		Rated residual operating current IΔn (mA)	Packing /box	Catalogue number three-poles	Catalogue number four-poles
			415V	690V				
DS1 MAX - 225	125	36	50	20	100/300/500	1/16	**44163MMEL**	**444163MMEL**
DS1 MAX - 400	250	42	65	25	100/300/500	1/6	**44250MHEL**	**444250MHEL**
DS1 MAX - 400	400	50	85	30	100/300/500	1/3	**44401MHEL**	**444401MHEL**

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2







High breaking capacity level moulded case circuit breakers (MCCB) DS1 MAX to 800A-electronic type

7 YEAR WARRANTY *for industrial usage, 3 years warranty

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

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
- Electrical wear resistance (number of cycles):≥ 10000
- Mechanical wear resistance (number of cycles):≥ 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°÷65°C

Type	Rated current In (A)	Operating breaking capacity (kA) Ics	Maximum breaking capacity (kA) Icu 415V	690V	Thermal current adjusment (A)	Packing/ box	Catalogue number three-poles	Catalogue number four-poles
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.

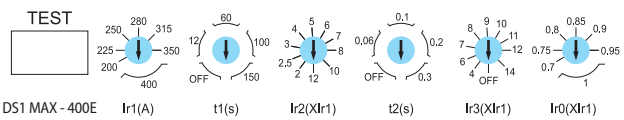
t1(s) Long time delay tripping time t1 adjustment.

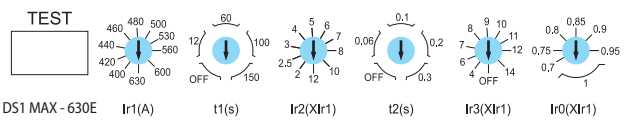
Ir2(XIr1) Short circuit short time delay tripping time Ir2 adjustment.

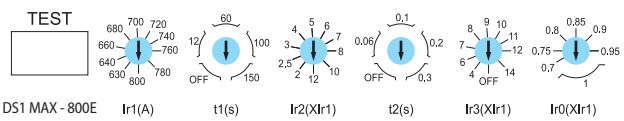
t2(s) Short time delay tripping time t2 adjustment.

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

Ir0(XIr1) Pre-alarm tripping current Ir0 adjustment.







Documents corresponding to the product:
Standard EN 60947-1; EN 60947-2; IEC 947-2

Moulded case circuit breaker(MCCB) DW1 series

5 YEAR WARRANTY *for industrial usage, 3 years warranty

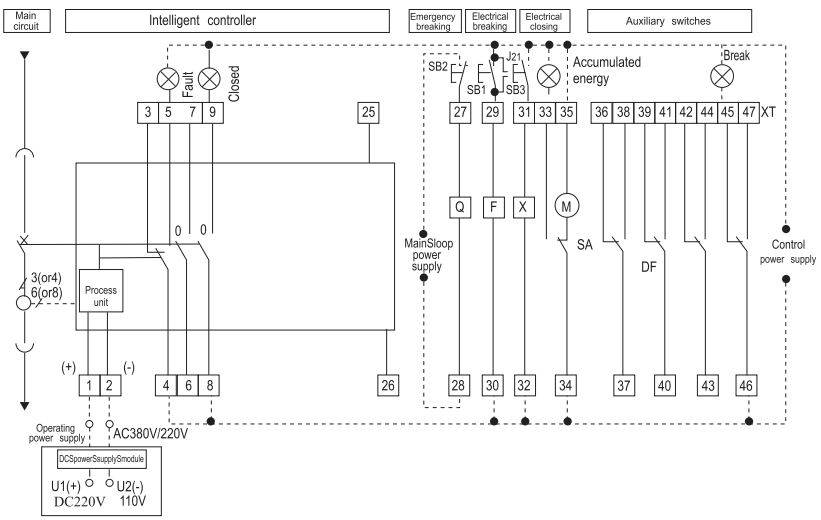
The DW1 series is an intelligent type circuit breaker used to control and protect low voltage electrical distribution network. Possibility to set the parameters of the circuit protection, built in under voltage release, remote control, earth protection and load monitoring.

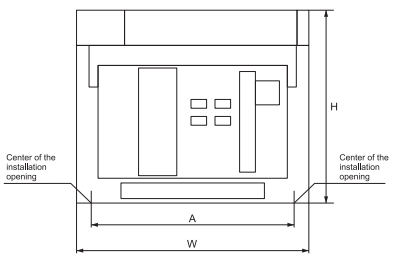
Functions:
- switching on/off heavy loaded electrical circuits
- breaking of electrical circuits and control of powerful consumers
- used as a main breaker in housing or industrial distributing installations
- endures high currents of short circuit in the protected circuit
- remarkable with high reliability of current characteristics
- motor control
- mounted auxiliary devices for automation - under voltage release, earth protection, intelligent controlling block with a possibility for a choice of the protected function

Technical data:
- Rated operating voltage: 690V; 50/60Hz
- Isolating voltage: 690V
- Surge voltage wear resistance: 2kV
- Joining terminal: bolt connection with 4 bolts to the power supply rail
- Connecting:
  - copper rails
  - busway connection – at the back
- Electrical wear resistance (number of cycles): ≥2000
- Mechanical wear resistance (number of cycles): ≥9000
- IP code: IP54
- Mounting:
  - clamping with bolts
  - mounting position: vertical gradient – maximum 5°
- Plastic material of UV rays and non-flammable
- Test button
- Ambient temperature: -10°C + 65°C
- Installation altitude: up to 2000m

Basic protective functions:
- Overload protection with long time delay
- Short circuit protection with short time delay, time inversion limit
- Short circuit protection with short time delay, time fixed limit
- Instantaneous short circuit protection
- Earth protection function
- Full stability function
- "Overload alarm" function
- Test function
- Auto diagnostics function

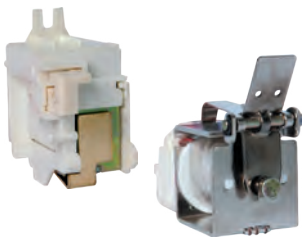
A commutation type of breakers with RS 485 connection for duplex transmission of all function parameters, adjustment and data can also be produced at client's order and delivery terms agreement.





Type	Dimensions		
	A	H	W
DW1-2000 FIXED	362	402	373
DW1-3200 FIXED	422	402	363
DW1-2000 DRAW-OUT	375	432	461
DW1-3200 DRAW-OUT	435	432	494
DW1-4000 DRAW-OUT	550	432	494
DW1-6300 DRAW-OUT	813	452	504

Type	Rated current In (A)	Rated voltage Un (V)	Breaking capacity (кA)		Electrical wear resistance (number of cycles)	Mechanical wear resistance (number of cycles)	Packing/ Box (pcs)	Catalogue number
			400 V	690 V				
DW1-2000 FIXED	1600	AC400V	80	50	2000	9000	1/1	**44208**
DW1-2000 FIXED	2000	AC400V	80	50	2000	9000	1/1	**44209**
DW1-3200 FIXED	2500	AC400V	100	65	2000	9000	1/1	**44255**
DW1-3200 FIXED	3200	AC400V	100	65	2000	9000	1/1	**44329**
DW1-2000 DRAW-OUT	1600	AC400V	80	50	2000	9000	1/1	**44208DO**
DW1-2000 DRAW-OUT	2000	AC400V	80	50	2000	9000	1/1	**44209DO**
DW1-3200 DRAW-OUT	2500	AC400V	100	65	2000	9000	1/1	**44255DO**
DW1-4000 DRAW-OUT	3600	AC400V	100	75	2000	9000	1/1	**44436DO**
DW1-4000 DRAW-OUT	4000	AC400V	100	75	2000	9000	1/1	**44440DO**
DW1-6300 DRAW-OUT	5000	AC400V	120	75	2000	9000	1/1	**44650DO**
DW1-6300 DRAW-OUT	6300	AC400V	120	75	2000	9000	1/1	**44663DO**



Shunt release (MX)

7 YEAR WARRANTY *for industrial usage, 3 years warranty

The device is used for remote control of breakers as at voltage signal it starts operating and switches off the breaker to which it is mounted

Technical data:

- rated operating voltage: 230/400V 50/60Hz
- electromagnetic coil 100VA for breakers up to 400A
- electromagnetic coil 150VA for breakers 630-800A
- available joining conductors

Mounting:
Mounted in a special jack after cover dismounting

Connecting:
Connected with the operative system through the provided conductors

***Note:** The breakers are offered with mounted accessory

DS1-electronic type with mounted MX

Type	Catalogue number	
	400V	230V
DS1 400/3300	**444511**	**44452**
DS1 630/3300	**44455**	**44456**
DS1 800/3300	**44459**	**44460**

DS1 MAX-electronic type with mounted MX

Type	Catalogue number	
	400V	230V
DS1 MAX 400/3300	**444511M**	**44452M**
DS1 MAX 630/3300	**44455M**	**44456M**
DS1 MAX 800/3300	**44459M**	**44460M**

DS1-thermomagnetic type with mounted MX

Type	Catalogue number	
	400V	230V
DS1 125/40	**44317**	**44318**
DS1 125/50	**44321**	**41322**
DS1 125/63	**44326**	**44327**
DS1 125/80	**44331**	**44332**
DS1 125/100	**44336**	**44337**
DS1 125/125	**44340**	**44341**
DS1 160/100	**44463**	**44464**
DS1 160/160	**44333**	**44344**
DS1 250/200	**44347**	**44348**
DS1 250/250	**44351**	**44352**
DS1 400/315	**44467**	**44468**
DS1 400/400	**44355**	**44356**
DS1 630/500	**44359**	**44360**
DS1 630/630	**44363**	**44364**
DS1 800/800	**44367**	**44368**

DS1 MAX-thermomagnetic type with mounted MX

Type	Catalogue number	
	400V	230V
DS1 MAX 125/63	**44326M**	**44327M**
DS1 MAX 125/80	**44331M**	**44332M**
DS1 MAX 125/100	**44336M**	**44337M**
DS1 MAX 125/125	**44340M**	**44341M**
DS1 MAX 250/160	**44333M**	**44344M**
DS1 MAX 250/200	**44347M**	**44348M**
DS1 MAX 250/250	**44351M**	**44352M**
DS1 MAX 400/400	**44355M**	**44356M**
DS1 MAX 630/630	**44363M**	**44364M**
DS1 MAX 800/800	**44367M**	**44368M**

Under voltage release (MN)

7 YEAR WARRANTY *for industrial usage, 3 years warranty

MN for DS1 - 125-160

The device switches off and/or does not allow the switching on of the breaker to which it is mounted at power breakdown or voltage decrease under certain limits

Technical data:
- operating voltage: 230/400V 50Hz
- electromagnetic coil 6VA for breakers up to 400A
- electromagnetic coil 10VA for breakers 630-800A
- available joining conductors
- switches off at voltage decrease under 75% of the operating

Mounting:
Mounted in a special jack after cover dismounting
Note: The breakers are offered with mounted accessory

Connecting:
Connected with the operative system through the provided conductors

MN for DS1 - 250-800

DS1-electronic type with mounted MN

Type	Catalogue number	
	400V	230V
DS1 400/3300	**44483**	**44484**
DS1 630/3300	**44487**	**44488**
DS1 800/3300	**44491**	**44492**

DS1 MAX-electronic type with mounted MN

Type	Catalogue number	
	400V	230V
DS1 MAX 400/3300	**44483M**	**44484M**
DS1 MAX 630/3300	**44487M**	**44488M**
DS1 MAX 800/3300	**44491M**	**44492M**

DS1-thermomagnetic type with mounted MN

Type	Catalogue number	
	400V	230V
DS1 125/40	**44383**	**44384**
DS1 125/50	**44387**	**44388**
DS1 125/63	**44391**	**44392**
DS1 125/80	**44395**	**44396**
DS1 125/100	**44399**	**44402**
DS1 125/125	**44407**	**44408**
DS1 160/100	**44475**	**44476**
DS1 160/160	**44411**	**44412**
DS1 250/200	**44415**	**44416**
DS1 250/250	**44419**	**44420**
DS1 400/315	**44479**	**44480**
DS1 400/400	**44423**	**44424**
DS1 630/500	**44427**	**44428**
DS1 630/630	**44431**	**44432**
DS1 800/800	**44435**	**44436**

DS1 MAX-thermomagnetic type with mounted MN

Type	Catalogue number	
	400V	230V
DS1 MAX 125/63	**44391M**	**44392M**
DS1 MAX 125/80	**44395M**	**44396M**
DS1 MAX 125/100	**44399M**	**44402M**
DS1 MAX 125/125	**44407M**	**44408M**
DS1 MAX 250/160	**44411M**	**44412M**
DS1 MAX 250/200	**44415M**	**44416M**
DS1 MAX 250/250	**44419M**	**44420M**
DS1 MAX 400/400	**44423M**	**44424M**
DS1 MAX 630/630	**44431M**	**44432M**
DS1 MAX 800/800	**44435M**	**44436M**

Documents corresponding to the product:
Standard EN 60947-1
EN 60947-2

Auxiliary contact (OF)

7 YEAR WARRANTY *for industrial usage, 3 years warranty

According to the way of mounting the auxiliary devices can be divided into two groups:
- internal devices – accessories for whose mounting it is necessary to dismount the cover of the breakers and fix them in specially designed jacks
- external devices – they are mounted right on the top cover of the breaker

INTERNAL DEVICES

Auxiliary contact (OF)
The device changes its condition conformably to the breaker's condition; it has a NO and a NC contactor.

Technical data:
- for breakers up to 160A operating current through the auxiliary contact: 3A
- for breakers from 250 to 800A operating current through the auxiliary contact: 6A
- available joining conductors
- labeling of the cables

Mounting:
Mounted in a special jack after cover dismounting
Note:
The breakers are offered with mounted accessory
Connecting:
Connected with the operative system through the provided conductors

DS1-thermomagnetic type with mounted OF

Type	Catalogue number
DS1 125/40	**44301**
DS1 125/50	**44302**
DS1 125/63	**44303**
DS1 125/80	**44304**
DS1 125/100	**44305**
DS1 125/125	**44306**
DS1 160/160	**44307**
DS1 250/200	**44308**
DS1 250/250	**44309**
DS1 400/400	**44310**
DS1 630/500	**44311**
DS1 630/630	**44312**
DS1 800/800	**44313**

DS1 MAX-thermomagnetic type with mounted OF

Type	Catalogue number
DS1 MAX 125/63	**44303M**
DS1 MAX 125/80	**44304M**
DS1 MAX 125/100	**44305M**
DS1 MAX 125/125	**44306M**
DS1 MAX 250/160	**44307M**
DS1 MAX 250/200	**44308M**
DS1 MAX 250/250	**44309M**
DS1 MAX 400/400	**44310M**
DS1 MAX 630/630	**44312M**
DS1 MAX 800/800	**44313M**

MCCB with auxiliary devices mounted (MX+OF) and (MN+OF)

7 YEARS GUARANTEE *for industrial usage, 3 years warranty

DS1 -electronic type with mounted MX+OF

Type	Catalogue number	
	400V	230V
DS1 400/3300	**44453**	**44454**
DS1 630/3300	**44457**	**44458**
DS1 800/3300	**44461**	**44462**

DS1-thermomagnetic type with mounted MX+OF

Type	Catalogue number	
	400V	230V
DS1 125/40	**44319**	**44320**
DS1 125/50	**44323**	**41324**
DS1 125/63	**44328**	**44330**
DS1 125/80	**44334**	**44335**
DS1 125/100	**44338**	**44339**
DS1 125/125	**44342**	**44343**
DS1 160/100	**44465**	**44466**
DS1 160/160	**44345**	**44346**
DS1 250/200	**44349**	**44350**
DS1 250/250	**44353**	**44354**
DS1 400/315	**44469**	**44470**
DS1 400/400	**44357**	**44358**
DS1 630/500	**44361**	**44362**
DS1 630/630	**44365**	**44366**
DS1 800/800	**44369**	**44370**

DS1 MAX-thermomagnetic type with mounted MN+OF

Type	Catalogue number	
	400V	230V
DS1 MAX 125/63	**44393M**	**44394M**
DS1 MAX 125/80	**44397M**	**44398M**
DS1 MAX 125/100	**44405M**	**44406M**
DS1 MAX 125/125	**44409M**	**44410M**
DS1 MAX 250/160	**44413M**	**44414M**
DS1 MAX 250/200	**44417M**	**44418M**
DS1 MAX 250/250	**44421M**	**44422M**
DS1 MAX 400/400	**44425M**	**44426M**
DS1 MAX 630/630	**44433M**	**44434M**
DS1 MAX 800/800	**44437M**	**44438M**

DS1 MAX-electronic type with mounted MN+OF

Type	Catalogue number	
	400V	230V
DS1 MAX 400/3300	**44485M**	**44486M**
DS1 MAX 630/3300	**44489M**	**44490M**
DS1 MAX 800/3300	**44493M**	**44494M**

DS1 MAX-electronic type with mounted MX+OF

Type	Catalogue number	
	400V	230V
DS1 MAX 400/3300	**44453M**	**44454M**
DS1 MAX 630/3300	**44457M**	**44458M**
DS1 MAX 800/3300	**44461M**	**44462M**

DS1 MAX- thermomagnetic type with mounted MX+OF

Type	Catalogue number	
	400V	230V
DS1 MAX 125/63	**44328M**	**44330M**
DS1 MAX 125/80	**44334M**	**44335M**
DS1 MAX 125/100	**44338M**	**44339M**
DS1 MAX 125/125	**44342M**	**44343M**
DS1 MAX 250/160	**44345M**	**44346M**
DS1 MAX 250/200	**44349M**	**44350M**
DS1 MAX 250/250	**44353M**	**44354M**
DS1 MAX 400/400	**44357M**	**44358M**
DS1 MAX 630/630	**44365M**	**44366M**
DS1 MAX 800/800	**44369M**	**44370M**

DS1-thermomagnetic type with mounted MN+OF

Type	Catalogue number	
	400V	230V
DS1 125/40	**44385**	**44386**
DS1 125/50	**44389**	**44390**
DS1 125/63	**44393**	**44394**
DS1 125/80	**44397**	**44398**
DS1 125/100	**44405**	**44406**
DS1 125/125	**44409**	**44410**
DS1 160/100	**44477**	**44478**
DS1 160/160	**44413**	**44414**
DS1 250/200	**44417**	**44418**
DS1 250/250	**44421**	**44422**
DS1 400/315	**44481**	**44482**
DS1 400/400	**44425**	**44426**
DS1 630/500	**44429**	**44430**
DS1 630/630	**44433**	**44434**
DS1 800/800	**44437**	**44438**

DS1-electronic type with mounted MN+OF

Type	Catalogue number	
	400V	230V
DS1 400/3300	**44485**	**44486**
DS1 630/3300	**44489**	**44490**
DS1 800/3300	**44493**	**44494**

Terminal plates for MCCB - DS1 and DS1 MAX type

7 YEAR WARRANTY *for industrial usage, 3 years warranty

Straight copper electro-tinned extensions enabling cable connection outside the switch terminals and providing excellent contact with the switch terminal base. Terminal extensions with different cross section are available depending on the switch rated power.

Mounting:
Extensions are directly bolt mounted to the switch terminal base.

Terminal plates for MCCB - DS1

Type	Rated current (A)	Catalogue number 3pcs/set	Catalogue number 4pcs/set
TP 125	125	**31125**	**314125**
TP 160	160	**31160**	**314160**
TP 250	250	**31250**	**314250**
TP 400	400	**31400**	**314400**
TP 630	630	**31630**	**314630**
TP 800	800	**31850**	**314850**
TP 1250	1250	**311250**	-

Terminal plates for MCCB - DS1 MAX

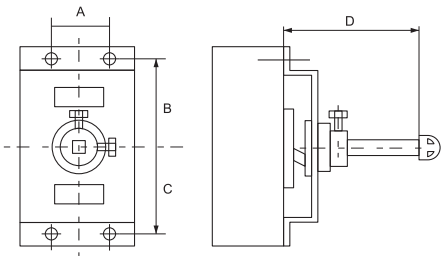
Type	Rated current (A)	Catalogue number 3pcs/set	Catalogue number 4pcs/set
TP 125 MAX	125	**31125M**	-
TP 250 MAX	250	**31250M**	-
TP 400 MAX	400	**31400M**	**314400M**
TP 630 MAX	630	**31630M**	**314630M**
TP 800 MAX	800	**31850M**	**314850M**

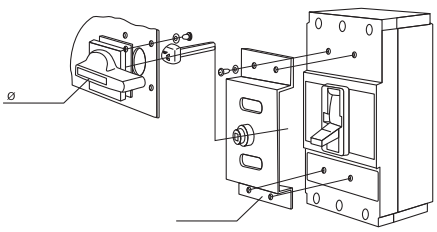
Remote control (manual)

5 YEAR WARRANTY *for industrial usage, 3 years warranty

Description:
The device switches off/on the breaker to which manual operative rotary mechanism is mounted
- two operating positions of the executive mechanism fixed at 90°C

Mounting:
The base is mounted with bolts right on the cover (scheme 1 mounting), and the handle is mounted at the door of the distribution box, using an extension axis it is joined to the base





Remote control for MCCB, DS1

Type of the breaker	Dimensions (mm) A	B	C	Dmin	Dmax	Packing/ Box (pcs)	Catalogue number
DS1 125A	25	50	50	65	115	1	**44967**
DS1 160A	30	50	50	65	115	1	**44968**
DS1 250A	35	70	70	80	130	1	**44969**
DS1 400A	45	107	107	85	105	1	**44970**
DS1 630A	70	119	119	110	110	1	**44971**
DS1 800A	70	119	119	110	110	1	**44972**

Remote control for MCCB, DS1 MAX

Type of the breaker	Dimensions (mm) A	B	C	Dmin	Dmax	Packing/ Box (pcs)	Catalogue number
DS1 MAX 63A	25	50	50	65	115	1	**44966M**
DS1 MAX 125A	25	50	50	65	115	1	**44967M**
DS1 MAX 250A	35	70	70	80	130	1	**44969M**
DS1 MAX 400A	45	107	107	85	105	1	**44970M**
DS1 MAX 630/800A	70	119	119	110	110	1	**44972M**

DS1 - 125-160

Remote control (electrical)

5 YEARS GUARANTEE *for industrial usage, 3 years warranty

Description:
The device switches off/on the breaker to which manual operative rotary mechanism is mounted
- two operating positions of the executive mechanism fixed at 90°C

Mounting:
The base is mounted with bolts right on the cover (scheme 1 mounting), and the handle is mounted at the door of the distribution box, using an extension axis it is joined to the base

DS1 - 250-800

Electrical remote control for MCCB DS1

Type of the breaker	Dimensions (mm)					Packing/ Box (pcs)	Catalogue number Operating voltage (V)	
	A	A1	B	B1	H		230V	400V
DS1 125	103.5	110	30	90	92	1	**44912**	**44907**
DS1 160	103.5	110	35	90	92	1	**44913**	**44908**
DS1 250	139	-	132	-	105	1	**44914**	**44909**
DS1 400	226	-	132	-	132	1	**44915**	**44910**
DS1 630	226	-	132	-	132	1	**44916**	**44911**
DS1 800	226	-	132	-	132	1	**44916**	**44911**

DS1 MAX - 63-250

Electrical remote control for MCCB DS1 MAX

Type of the breaker	Dimensions (mm)					Packing/ Box (pcs)	Catalogue number Operating voltage (V)	
	L1	B	B	H	H1		230V	400V
DS1 MAX 63A	116	90	50	77	12,5	1	**44917M**	**44906M**
DS1 MAX 125A	116	90	50	77	12,5	1	**44912M**	**44907M**
DS1 MAX 250A	116	90	70	77	15	1	**44914M**	**44909M**
DS1 MAX 400A	176	130	107	115	27	1	**44915M**	**44910M**
DS1 MAX 630/800A	176	130	119	115	31	1	**44916M**	**44911M**