

● GENERAL

The residual current device(RCD) works with no extra power supply to the operating mechanism. It compares the magnitude of the currents through the neutral and phase conductors. The conductors are coiled on toroid and together with the secondary winding form a measurement transformer. The power conductors are coiled in such a way that the magnetic fields generated at electrical current flow through them are mutually neutralized. At failure in the insulation of some of the conductors or at presence of a person under voltage, the system is misbalanced and the magnetic fields can not be neutralized. This residual field generates in the secondary current winding, called current leakage. The device breaks when the value of this current exceeds the limit value of the RCD. Every people from any profession and any cultural level are in close contact with electrical energy at any hour of the day and they may encounter residual currents. Under normal conditions, benefits from electrical energy are countless. However, damages arising from an insulation error are also really huge. Every year, many individuals become victim of electrical accidents. Therefore, use of residual current protection devices has been rendered mandatory in many countries and our country.

● REFERENCE STANDARDS

EN61008-1, IEC61008-1, EN61008-2, IEC60947-1, EN60947-1, BS4293

● RATED OPERATING VOLTAGE

2-Pole RCD: 230/240V AC, 50/60Hz
4-Pole RCD: 400/415V AC, 50/60Hz

● RATED CURRENT

According to the model, up to 100A

● RESIDUAL CURRENT

30mA; 100mA; 300mA; (500mA upon request)

● CASING

Self-extinguishing Nylon PA66

● CONTACT HEAD

High grade silver material

● STATIC CONTACT

High grade copper material

● PROTECTION GRADE

IP20

● AMBIENT TEMPERATURE

-10°C ~ +45°C

● INSTALLATION ALTITUDE

Up to 2000m

● MOUNTING

On DIN-Rail (The RCD is vertically mounted in the distribution box.)

● IMPACT OF CURRENT SIZE

Electrical current pass through body of a person, who is in contact with an electrical device with any insulation fault or conductors under direct energy. Significance of hazard arising from transition of the current through the body depends on many factors.

These are;

- Value of the current
- Transition duration of the current
- Path followed in the body.

Fibrillation is breakdown of the controlling system of the heart, when the residual current passes through it. In this case, heart cannot fulfill its duty to pump blood. As it is seen here, even a small current results in heart attack and accordingly eath of the person.

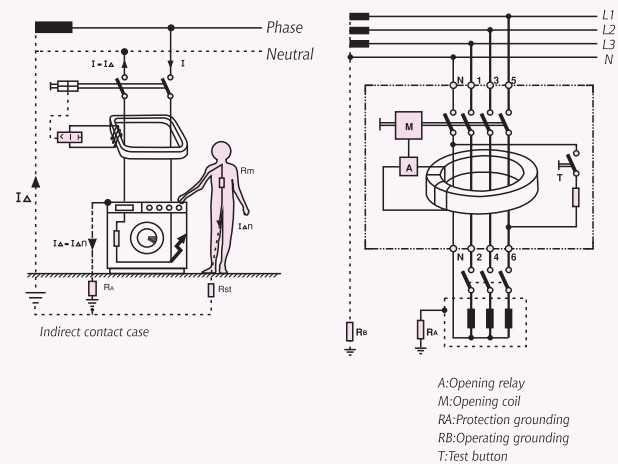
● LIFE PROTECTION

According to IEC 60479-1, 30mA value of the residual current is the limit value in terms of human life. Residual current circuit breaker breaks energy of the circuit at 30mA (limit value) and higher values to provide safe protection.

● FIRE PROTECTION

When residual current value reaches 300mA, fire risk comes into existence due to heat formed by electrical arc. Residual current circuit breaker breaks energy of the circuit at 300mA threshold value and higher values in terms of safety of goods and lives to provide safe protection.

The RCD must be independent from the supply voltage, that is it should not be electronic. Since electronic short circuit circuit breakeres need supply voltage, they cannot operate and protect in case of a breakdown in the neutral line.



● ATTENTION

- Neutral conductive should be laid down as insulated and should not be grounded anywhere (between residual current circuit breakers and load).
- In 2-pole RCD, phases and neutral conductive; in 4-pole RCD, all phases and neutral conductive should be connected to the RCD.
- Current passing through RCD should not exceed nominal current of the switch.
- In order to check operation of the RCD to remain connected to the installation, press test "T" button. The device should open the circuit. Phase-neutral conductors should never be subject to short circuit to test the device.

Ref.	Model	Rated Current(A)	Breaking Capacity(kA)	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

CDSL1-1P/2L



Electro-magnetic type(Single-pole double line)

CDSL1-1P/2L	10	6	45	9112101	9112102	9112103
CDSL1-1P/2L	13	6	45	9112131	9112132	9112133
CDSL1-1P/2L	16	6	45	9112161	9112162	9112163
CDSL1-1P/2L	20	6	45	9112201	9112202	9112203
CDSL1-1P/2L	25	6	45	9112251	9112252	9112253
CDSL1-1P/2L	32	6	45	9112321	9112322	9112323
CDSL1-1P/2L	40	6	45	9112401	9112402	9112403
CDSL1-1P/2L	50	6	45	9112501	9112502	9112503
CDSL1-1P/2L	63	6	45	9112631	9112632	9112633

CDSL1-2P/2L



Electro-magnetic type(Double-pole double line)

CDSL1-2P/2L	10	6	30	9122101	9122102	9122103
CDSL1-2P/2L	13	6	30	9122131	9122132	9122133
CDSL1-2P/2L	16	6	30	9122161	9122162	9122163
CDSL1-2P/2L	20	6	30	9122201	9122202	9122203
CDSL1-2P/2L	25	6	30	9122251	9122252	9122253
CDSL1-2P/2L	32	6	30	9122321	9122322	9122323
CDSL1-2P/2L	40	6	30	9122401	9122402	9122403
CDSL1-2P/2L	50	6	30	9122501	9122502	9122503
CDSL1-2P/2L	63	6	30	9122631	9122632	9122633

CDSL1-3P/3L



Electro-magnetic type(Triple-pole triple line)

CDSL1-3P/3L	10	6	15	9133101	9133102	9133103
CDSL1-3P/3L	13	6	15	9133131	9133132	9133133
CDSL1-3P/3L	16	6	15	9133161	9133162	9133163
CDSL1-3P/3L	20	6	15	9133201	9133202	9133203
CDSL1-3P/3L	25	6	15	9133251	9133252	9133253
CDSL1-3P/3L	32	6	15	9133321	9133322	9133323
CDSL1-3P/3L	40	6	15	9133401	9133402	9133403
CDSL1-3P/3L	50	6	15	9133501	9133502	9133503
CDSL1-3P/3L	63	6	15	9133631	9133632	9133633

Ref.	Model	Rated Current(A)	Breaking Capacity(kA)	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

CDSL1-3P/4L



Electro-magnetic type(Triple-pole four line)

CDSL1-3P/4L	10	6	15	9134101	9134102	9134103
CDSL1-3P/4L	13	6	15	9134131	9134132	9134133
CDSL1-3P/4L	16	6	15	9134161	9134162	9134163
CDSL1-3P/4L	20	6	15	9134201	9134202	9134203
CDSL1-3P/4L	25	6	15	9134251	9134252	9134253
CDSL1-3P/4L	32	6	15	9134321	9134322	9134323
CDSL1-3P/4L	40	6	15	9134401	9134402	9134403
CDSL1-3P/4L	50	6	15	9134501	9134502	9134503
CDSL1-3P/4L	63	6	15	9134631	9134632	9134633

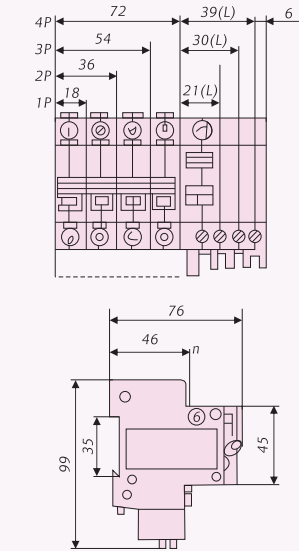
CDSL1-4P/4L



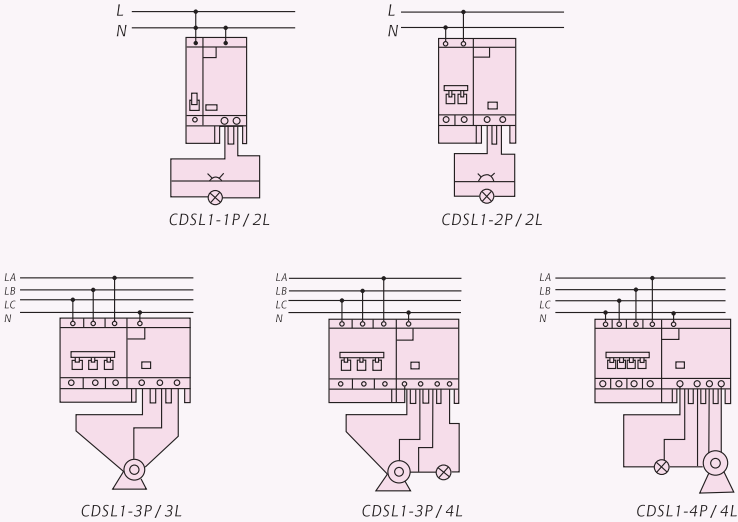
Electro-magnetic type(Four-pole four line)

CDSL1-4P/4L	10	6	15	9144101	9144102	9144103
CDSL1-4P/4L	13	6	15	9144131	9144132	9144133
CDSL1-4P/4L	16	6	15	9144161	9144162	9144163
CDSL1-4P/4L	20	6	15	9144201	9144202	9144203
CDSL1-4P/4L	25	6	15	9144251	9144252	9144253
CDSL1-4P/4L	32	6	15	9144321	9144322	9144323
CDSL1-4P/4L	40	6	15	9144401	9144402	9144403
CDSL1-4P/4L	50	6	15	9144501	9144502	9144503
CDSL1-4P/4L	63	6	15	9144631	9144632	9144633

• DIMENSION



• WIRING DIAGRAM



Ref.	Model	Rated Current(A)	No. of Pole	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

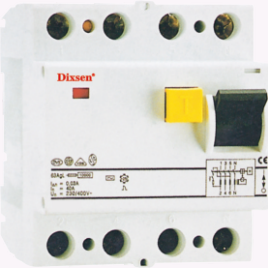
CDSL2-2P



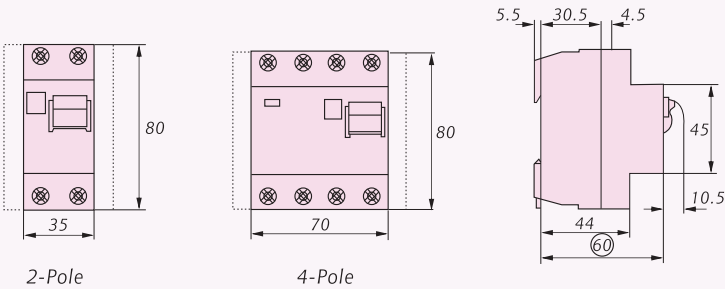
Electro-magnetic type

CDSL2-2P	16	2	100	9220161	9220162	9220163
CDSL2-2P	25	2	100	9220251	9220252	9220253
CDSL2-2P	40	2	100	9220401	9220402	9220403
CDSL2-2P	63	2	100	9220631	9220632	9220633
CDSL2-2P	80	2	100	9220801	9220802	9220803
CDSL2-4P	16	4	50	9240161	9240162	9240163
CDSL2-4P	25	4	50	9240251	9240252	9240253
CDSL2-4P	40	4	50	9240401	9240402	9240403
CDSL2-4P	63	4	50	9240631	9240632	9240633
CDSL2-4P	80	4	50	9240801	9240802	9240803

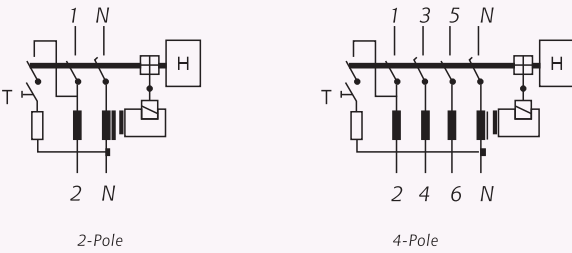
CDSL2-4P



• DIMENSION



• WIRING DIAGRAM



Ref.	Model	Rated Current(A)	No. of Pole	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

CDSL3-2P



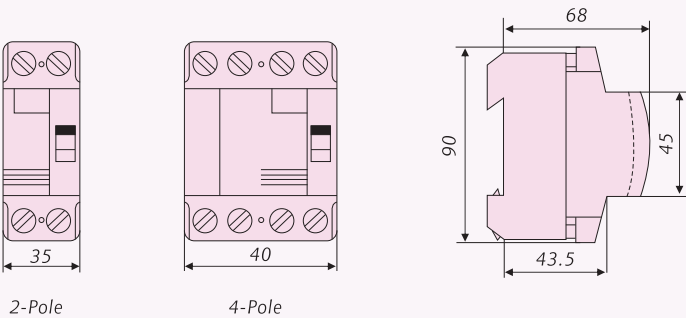
Electro-magnetic type

CDSL3-2P	25	2	100	9320251	9320252	9320253
CDSL3-2P	40	2	100	9320401	9320402	9320403
CDSL3-2P	63	2	100	9320631	9320632	9320633
CDSL3-4P	25	4	100	9340251	9340252	9340253
CDSL3-4P	40	4	100	9340401	9340402	9340403
CDSL3-4P	63	4	100	9340631	9340632	9340633

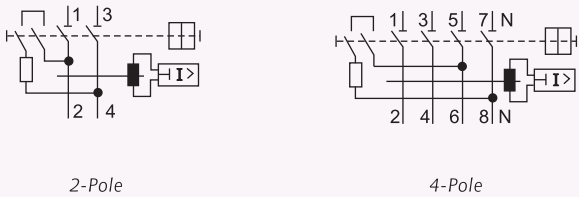
Electronic type

CDSL3-2P	25	2	50	9324251	9324252	9324253
CDSL3-2P	40	2	50	9324401	9324402	9324403
CDSL3-2P	63	2	50	9324631	9324632	9324633
CDSL3-4P	25	4	50	9344251	9344252	9344253
CDSL3-4P	40	4	50	9344401	9344402	9344403
CDSL3-4P	63	4	50	9344631	9344632	9344633

• DIMENSION



• WIRING DIAGRAM



Ref.	Model	Rated Current(A)	No. of Pole	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

CDSL4-2P



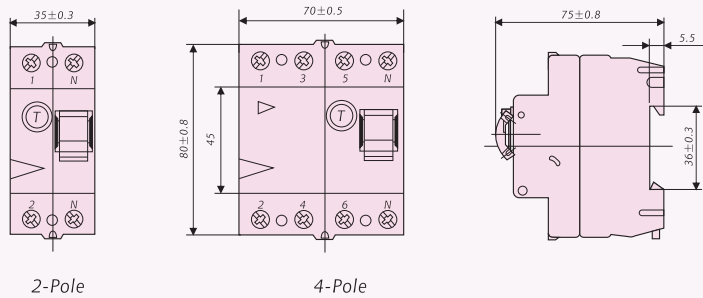
Electro-magnetic type

CDSL4-2P	16	2	100	9420161	9420162	9420163
CDSL4-2P	25	2	100	9420251	9420252	9420253
CDSL4-2P	40	2	100	9420401	9420402	9420403
CDSL4-2P	63	2	100	9420631	9420632	9420633
CDSL4-2P	80	2	100	9420801	9420802	9420803
CDSL4-4P	16	4	50	9440161	9440162	9440163
CDSL4-4P	25	4	50	9440251	9440252	9440253
CDSL4-4P	40	4	50	9440401	9440402	9440403
CDSL4-4P	63	4	50	9440631	9440632	9440633
CDSL4-4P	80	4	50	9440801	9440802	9440803

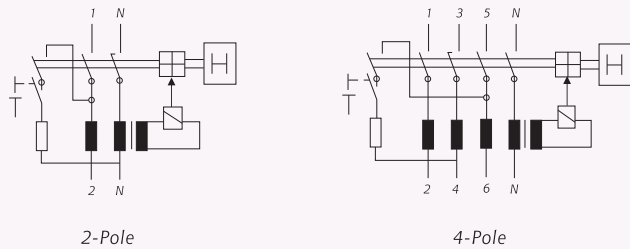
CDSL4-4P



• DIMENSION



• WIRING DIAGRAM



Ref.	Model	Rated Current(A)	Breaking Capacity(kA)	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

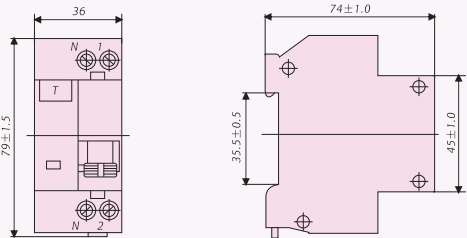
CDSL5



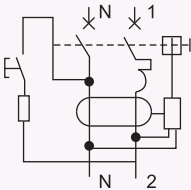
Electro-magnetic type

CDSL5	6	4.5	60	9510061	9510062	9510063
CDSL5	10	4.5	60	9510101	9510102	9510103
CDSL5	16	4.5	60	9510161	9510162	9510163
CDSL5	20	4.5	60	9510201	9510202	9510203
CDSL5	25	4.5	60	9510251	9510252	9510253
CDSL5	32	4.5	60	9510321	9510322	9510323

• DIMENSION



• WIRING DIAGRAM



Ref.	Model	Rated Current(A)	No. of Pole	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

CDSL6-2P



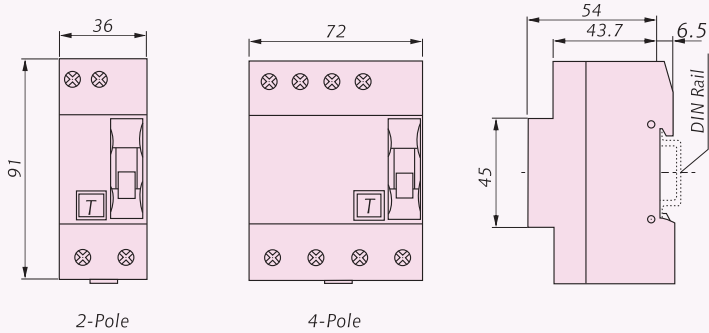
CDSL6-4P



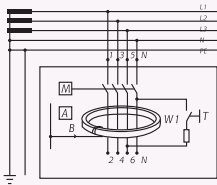
Electro-magnetic type

CDSL6-2P	6	2	100	9620061	9620062	9620063
CDSL6-2P	10	2	100	9620101	9620102	9620103
CDSL6-2P	16	2	100	9620161	9620162	9620163
CDSL6-2P	25	2	100	9620251	9620252	9620253
CDSL6-2P	32	2	100	9620321	9620322	9620323
CDSL6-2P	40	2	100	9620401	9620402	9620403
CDSL6-2P	50	2	100	9620501	9620502	9620503
CDSL6-2P	63	2	100	9620631	9620632	9620633
CDSL6-4P	6	4	50	9640061	9640062	9640063
CDSL6-4P	10	4	50	9640101	9640102	9640103
CDSL6-4P	16	4	50	9640161	9640162	9640163
CDSL6-4P	25	4	50	9640251	9640252	9640253
CDSL6-4P	32	4	50	9640321	9640322	9640323
CDSL6-4P	40	4	50	9640401	9640402	9640403
CDSL6-4P	50	4	50	9640501	9640502	9640503
CDSL6-4P	63	4	50	9640631	9640632	9640633
CDSL6-4P	80	4	50	9640801	9640802	9640803

• DIMENSION



• WIRING DIAGRAM



Ref.	Model	Rated Current(A)	No. of Pole	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

CDSL7-2P



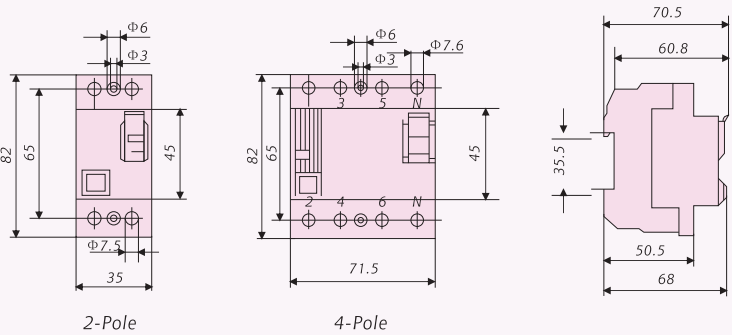
Electro-magnetic type

CDSL7-2P	25	2	100	9720251	9720252	9720253
CDSL7-2P	40	2	100	9720401	9720402	9720403
CDSL7-2P	63	2	100	9720631	9720632	9720633
CDSL7-2P	80	2	100	9720801	9720802	9720803
CDSL7-2P	100	2	100	9721001	9721002	9721003
CDSL7-4P	25	4	50	9740251	9740252	9740253
CDSL7-4P	40	4	50	9740401	9740402	9740403
CDSL7-4P	63	4	50	9740631	9740632	9740633
CDSL7-4P	80	4	50	9740801	9740802	9740803
CDSL7-4P	100	4	50	9741001	9741002	9741003

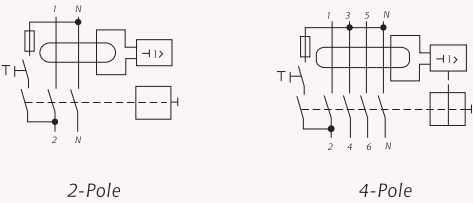
CDSL7-4P



• DIMENSION



• WIRING DIAGRAM



Ref.	Model	Rated Current(A)	No. of Pole	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

CDSL8-2P



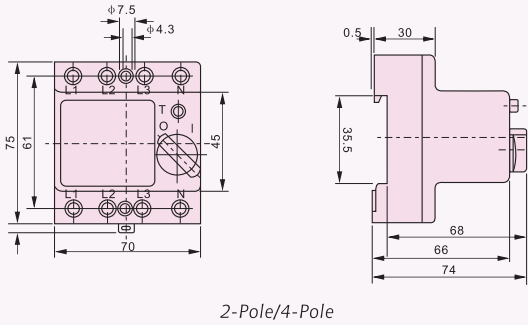
Electro-magnetic type

CDSL8-2P	25	2	30	9820251	9820252	9820253
CDSL8-2P	40	2	30	9820401	9820402	9820403
CDSL8-2P	63	2	30	9820631	9820632	9820633
CDSL8-4P	25	4	15	9840251	9840252	9840253
CDSL8-4P	40	4	15	9840401	9840402	9840403
CDSL8-4P	63	4	15	9840631	9840632	9840633

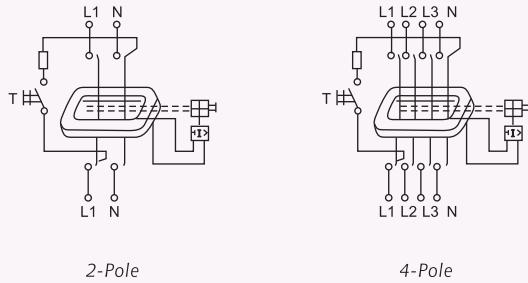
CDSL8-4P



• DIMENSION



• WIRING DIAGRAM



Ref.	Model	Rated Current(A)	No. of Pole	Case Qty.(Pcs)	Item Code	
					Residual Current	
					100mA	300mA

CDSL9-2P



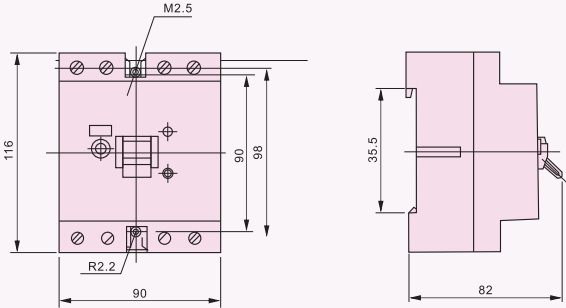
CDSL9-4P



Electro-magnetic type

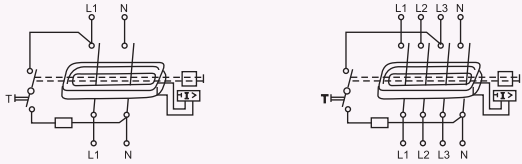
CDSL9-2P	63	2	30	9920631	9920632
CDSL9-2P	80	2	30	9920801	9920802
CDSL9-2P	100	2	30	9921001	9921002
CDSL9-4P	63	4	15	9940631	9940632
CDSL9-4P	80	4	15	9940801	9940802
CDSL9-4P	100	4	15	9941001	9941002

• DIMENSION



2-Pole/4-Pole

• WIRING DIAGRAM



2-Pole

4-Pole

Ref.	Model	Rated Current(A)	No. of Pole	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

CDSL10-2P



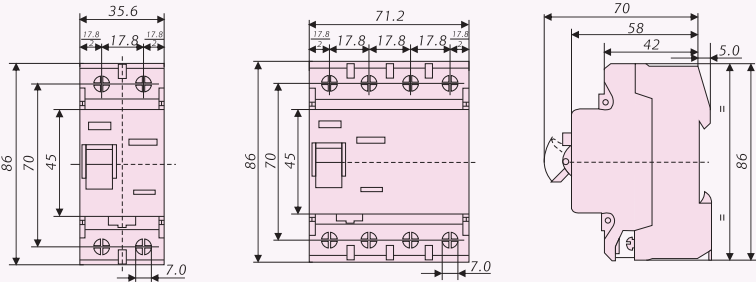
CDSL10-4P



Electro-magnetic type

CDSL10-2P	16	2	100	9122161	9122162	9122163
CDSL10-2P	20	2	100	9122201	9122202	9122203
CDSL10-2P	25	2	100	9122251	9122252	9122253
CDSL10-2P	32	2	100	9122321	9122322	9122323
CDSL10-2P	40	2	100	9122401	9122402	9122403
CDSL10-2P	50	2	100	9122501	9122502	9122503
CDSL10-2P	63	2	100	9122631	9122632	9122633
CDSL10-4P	16	4	50	9142161	9142162	9142163
CDSL10-4P	20	4	50	9142201	9142202	9142203
CDSL10-4P	25	4	50	9142251	9142252	9142253
CDSL10-4P	32	4	50	9142321	9142322	9142323
CDSL10-4P	40	4	50	9142401	9142402	9142403
CDSL10-4P	50	4	50	9142501	9142502	9142503
CDSL10-4P	63	4	50	9142631	9142632	9142633

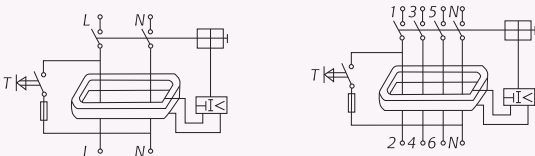
• DIMENSION



2-Pole

4-Pole

• WIRING DIAGRAM



2-Pole

4-Pole

Ref.	Model	Rated Current(A)	No. of Pole	Case Qty.(Pcs)	Item Code		
					Residual Current		
					30mA	100mA	300mA

CDSL11-2P

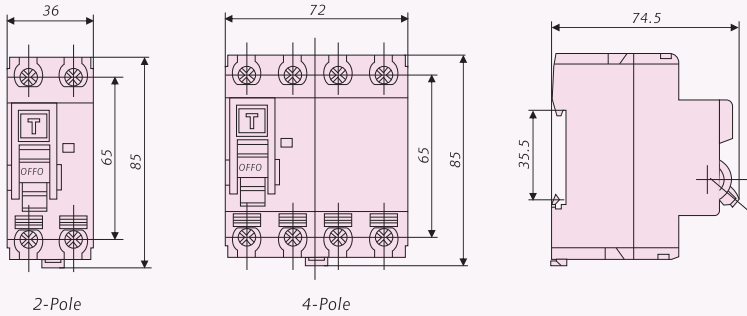


Electro-magnetic type

CDSL11-2P	25	2	100	9123251	9123252	9123253
CDSL11-2P	40	2	100	9123401	9123402	9123403
CDSL11-2P	63	2	100	9123631	9123632	9123633
CDSL11-4P	25	4	50	9143251	9143252	9143253
CDSL11-4P	40	4	50	9143401	9143402	9143403
CDSL11-4P	63	4	50	9143631	9143632	9143633

● DIMENSION

CDSL11-4P



● WIRING DIAGRAM

