Functions

- Switching and isolation function
- Controlling
- Protection against the effects of sinusoidal alternating earth fault currents
- Protection against indirect contacts and additional protection against direct contacts.
- Protection against fire hazard caused by insulation faults
- Used in residential building , non-residential building, energy sources, industry and infrastructure.

Technical specifications

- Standard: IEC 61008-1
- Approvals: CE, SEMKO, CB, TUV
- Type (wave form of the earth leakage sensed): AC, A
- Trip time type: general use, selectivity of S
- Number of poles: 1P+N, 3P+N
- Rated current In(A): 16, 25, 40, 63, 80, 100
- Rated voltage Ue (VAC): 230/400
- Rated insulation voltage Ui (VAC): 500
- Rated Frequency Fn (Hz): 50/60
- Rated residual currents(I Δ n)(mA): 10(2P 16A), 30,100,300
- Rated conditional short-circuit current :
  - Inc=I Δ c= 6000A SCPD fuse 100A Gg
- Making and breaking capacity Im(A): 1000
- Rated residual breaking capacity I Δ m(A): 1000
- Rated impulse withstand voltage (1.2/50) Uimp(kV): 8
- Dielectric test voltage at ind. freq. for 1 min.(kV): 2.5
- Electrical life(times): 10,000
- Mechanical life(times): 20,000
- Degree of protection: IP20, with connected conductors
- Mounting position: Any
- Conductor cross-sections
  - Solid and stranded(mm^2): 0.75-35
  - Finely stranded with end sleeve(mm^2): 0.75-25
- Terminals
  - Terminal tightening torque(N • m): 3
- Ambient temperature (℃): -25 ~ +45, max. 95 % humidity
- Storage temperature (℃): -40 ~ +75
- Altitude Max (meters): 2,000

Instruction of type code

L66 | 2 | C | 025 | 030

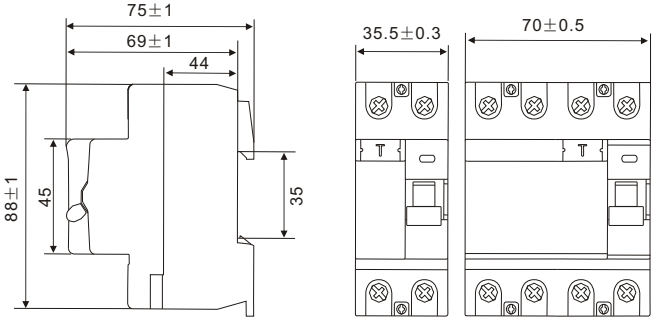
- 030 — Rated residual current
- 025 — Rated current
- C — Residual trip characteristic type
- 2 — Number of poles: 1P+N, 3P+N
- L66 — Series code

Features

- Electromagnetic type, voltage independent.
- The handle being sealable or equipped with padlock bracket avoids dangerous operation changes (ON / OFF)
  - The handle provides a clear indication of the contact position
  - Adequate printing of all data on the front provides long-term identification

Outline and installation dimensions

unit in mm



Residual Current Circuit Breakers
Series 3SL66

Selection and ordering data

Number of poles	Rated residual Current I△n(mA)	Rated current In(A)	Type AC Type code	Type AC Order code	Type A Type code	Type A Order code	Type S Type code	Type S Order code
1P+N,	10	16	L66 2C016/010	**19496**	L66 2A016/010	**19497**		
	30	16	L66 2C016/030	**23648**	L66 2A016/030	**23654**		
		25	L66 2C025/030	**23073**	L66 2A025/030	**23088**		
		40	L66 2C040/030	**23074**	L66 2A040/030	**23089**		
		63	L66 2C063/030	**23075**	L66 2A063/030	**23090**		
		80	L66 2C080/030	**23076**	L66 2A080/030	**23091**		
		100	L66 2C100/030	**23077**	L66 2A100/030	**23092**		
	100	16	L66 2C016/100	**23666**	L66 2A016/100	**23672**	L66 2S016/100	**23678**
		25	L66 2C025/100	**23078**	L66 2A025/100	**23093**	L66 2S025/100	**23622**
		40	L66 2C040/100	**23079**	L66 2A040/100	**23094**	L66 2S040/100	**23623**
		63	L66 2C063/100	**23080**	L66 2A063/100	**23095**	L66 2S063/100	**23624**
		80	L66 2C080/100	**23081**	L66 2A080/100	**23096**	L66 2S080/100	**23625**
		100	L66 2C100/100	**23082**	L66 2A100/100	**23097**	L66 2S100/100	**23626**
	300	16	L66 2C016/300	**23684**	L66 2A016/300	**23690**	L66 2S016/300	**23696**
		25	L66 2C025/300	**23083**	L66 2A025/300	**23098**	L66 2S025/300	**23627**
		40	L66 2C040/300	**23084**	L66 2A040/300	**23099**	L66 2S040/300	**23628**
		63	L66 2C063/300	**23085**	L66 2A063/300	**23100**	L66 2S063/300	**23629**
		80	L66 2C080/300	**23086**	L66 2A080/300	**23101**	L66 2S080/300	**23630**
		100	L66 2C100/300	**23087**	L66 2A100/300	**23102**	L66 2S100/300	**23631**
3P+N	30	16	L66 4C016/030	**23651**	L66 4A016/030	**23657**		
		25	L66 4C025/030	**23103**	L66 4A025/030	**23118**		
		40	L66 4C040/030	**23104**	L66 4A040/030	**23119**		
		63	L66 4C063/030	**23105**	L66 4A063/030	**23120**		
		80	L66 4C080/030	**23106**	L66 4A080/030	**23121**		
		100	L66 4C100/030	**23107**	L66 4A100/030	**23122**		
	100	16	L66 4C016/100	**23669**	L66 4A016/100	**23675**	L66 4S016/100	**23637**
		25	L66 4C025/100	**23108**	L66 4A025/100	**23123**	L66 4S025/100	**23681**
		40	L66 4C040/100	**23109**	L66 4A040/100	**23124**	L66 4S040/100	**23638**
		63	L66 4C063/100	**23110**	L66 4A063/100	**23125**	L66 4S063/100	**23639**
		80	L66 4C080/100	**23111**	L66 4A080/100	**23126**	L66 4S080/100	**23640**
		100	L66 4C100/100	**23112**	L66 4A100/100	**23127**	L66 4S100/100	**23641**
	300	16	L66 4C016/300	**23687**	L66 4A016/300	**23693**	L66 4S016/300	**23699**
		25	L66 4C025/300	**23113**	L66 4A025/300	**23128**	L66 4S025/300	**23642**
		40	L66 4C040/300	**23114**	L66 4A040/300	**23129**	L66 4S040/300	**23643**
		63	L66 4C063/300	**23115**	L66 4A063/300	**23130**	L66 4S063/300	**23644**
		80	L66 4C080/300	**23116**	L66 4A080/300	**23131**	L66 4S080/300	**23645**
		100	L66 4C100/300	**23117**	L66 4A100/300	**23132**	L66 4S100/300	**23646**

Types

Both RCCBs and RCBOs are further divided into types depending on the operating function:

- Type AC: For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.
- Type A: For which tripping is ensured for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.
- Type S: For selectivity, with time delay.

Tripping sensitivity data

- RCD with a rated residual current of maximum 30 mA are used for personnel, material and fire protection, as well as for protection against direct contact.
- RCD with a rated residual current of maximum 300 mA are used as preventative fire protection in case of insulation faults
- RCD with a rated residual current of 100mA co-ordinated with the earth system according to the formula I△n＜ 50/R, to provide protection against indirect contacts
- RCD with a rated residual current of 10 mA are primarily used in areas that exist an increased risk for personnel