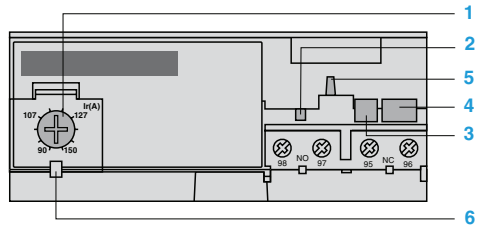
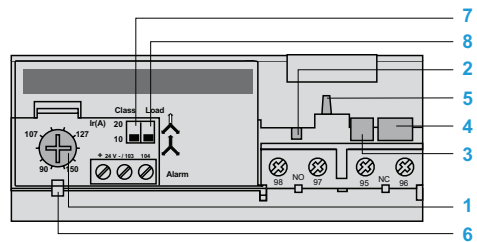


Description



LR9 D5367...D5569



LR9 D67 and D69

LR9 D electronic thermal overload relays are designed for use with contactors LC1 D115 and D150.

In addition to the protection provided by TeSys D thermal overload relays (see page 6/14), they offer the following special features:

- protection against phase imbalance,
- choice of starting class,
- protection of unbalanced circuits,
- protection of single-phase circuits,
- alarm function to avoid tripping by load shedding.

- 1 Adjustment dial Ir.
- 2 Test button.
- 3 Stop button.
- 4 Reset button.
- 5 Trip indicator.
- 6 Setting locked by sealing the cover.
- 7 Class 10/class 20 selector switch.
- 8 Selector for balanced load /unbalanced load

Environment

Conforming to standards		IEC 60947-4-1, 255-8, 255-17, VDE 0660 and EN 60947-4-1	
Product certifications		UL 508 , CSA 22-2	
Degree of protection	Conforming to IEC 60529 and VDE 0106	IP 20 on front panel with protective covers LA9 D11570● or D11560●	
Protective treatment	Standard version	"TH"	
Ambient air temperature around the device (Conforming to IEC 60255-8)	Storage	°C	- 40...+ 85
	Normal operation	°C	- 20...+ 55 (1)
Maximum operating altitude	Without derating	m	2000
Operating positions without derating	In relation to normal vertical mounting plane	Any position	
Shock resistance	Permissible acceleration conforming to IEC 60068-2-7	13 gn - 11 ms	
Vibration resistance	Permissible acceleration conforming to IEC 60068-2-6	2 gn - 5...300 Hz	
Dielectric strength at 50 Hz	Conforming to IEC 60255-5	kV	6
Surge withstand	Conforming to IEC 61000-4-5	kV	6
Resistance to electrostatic discharge	Conforming to IEC 61000-4-2	kV	8
Immunity to radiated radio-frequency disturbances	Conforming to IEC 61000-4-3 and NF C 46-022	V/m	10
Immunity to fast transient currents	Conforming to IEC 61000-4-4	kV	2
Electromagnetic compatibility	Draft EN 50081-1 and 2, EN 50082-2	Meets requirements	

Electrical characteristics of auxiliary contacts

Conventional thermal current		A	5						
Max. sealed consumption of the operating coils of controlled contactors (Occasional operating cycles of contact 95-96)	a.c. supply	V	24	48	110	220	380	600	
	d.c. supply	VA	100	200	400	600	600	600	
		V	24	48	110	220	440	–	
		W	100	100	50	45	25	–	
Protection against short-circuits	By gG or BS fuses or by circuit-breaker GB2	A	5						
Cabling Flexible cable without cable end	1 or 2 conductors	mm²	Minimum c.s.a.: 1 Maximum c.s.a.: 2.5						
	Tightening torque	Nm	1.2						

(1) For operating temperatures up to 70 °C, please consult your Regional Sales Office.