### **Characteristics**

# **Protection components**

# TeSys LR9 F electronic thermal overload relays

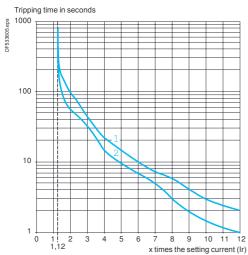
## Overload relays

Operating chara	acteristics		
Tripping class	Conforming to IEC 60947-4-1		10, 10 A and 20
Temperature compensation		°C	-20+70
Reset			Manual on front of relay
Fault indication			On front of relay
Test function			On front of relay
Stop function			Actuation of N/C contact, without affecting N/O contact
Tripping thresholds	Conforming to Alarm	A	1.05 ± 0.06 ln
	IEC 60947-4-1 Tripping	Α	1.12 ± 0.06 ln
Sensitivity to phase failure	Conforming to IEC 60947-4-1		Tripping in 4 s ± 20 % in the event of phase failure
Adjustment (nominal motor current)			Setting dial on front of relay
Security sealing			Yes
Alarm circuit ch	aracteristics		
Rated supply voltage	d.c. supply	V	24
Supply voltage limits		v	1732
Current consumption	No-load	mA	≤5
Switching current		mA	0150
Protection	Short-circuit and overload		Auto-protected
Voltage drop	Closed state		≤2.5
Connection	Flexible cable without cable end		0.51.5
Tightening torque		N.m	0.45

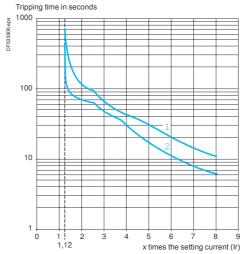
#### LR9 F tripping curve

#### Average operating times depending on multiples of the setting current

#### Class 10



#### Class 20



- 1 Cold state curve
- 2 Hot state curve