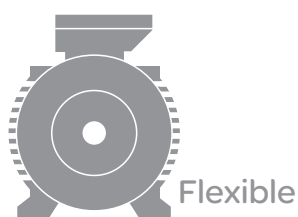


# TeSys

Motor control and protection components



Motor starters **M**



Smart Circuit breakers

Protection Contactors


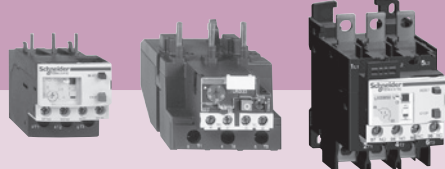






Thermal overload relays

Fuse switch-disconnectors

Reliable

Motor controllers



Thermal overload relays - For use with TeSys K contactors		
Type of product	Range	Pages
Adjustable thermal overload relays For motors TeSys LRK	From 0.16 to 16 A	 B11/2
Adjustable thermal overload relays For unbalanced loads TeSys LRK	From 0.8 to 16 A	B11/3
Thermal overload relays Class 10 - For use with TeSys D contactors		
Adjustable thermal overload relays For motors TeSys LRD	From 0.16 to 140 A	 B11/4
Adjustable thermal overload relays For unbalanced loads TeSys LRD	From 0.16 to 140 A	B11/4
Thermal overload relays Class 20 - For use with TeSys D contactors		
Adjustable thermal overload relays For motors TeSys LRD	From 0.63 to 80 A	 B11/6
Adjustable thermal overload relays For unbalanced loads TeSys LRD	From 0.63 to 32 A	B11/6
Electronic thermal overload relays - For use with TeSys F contactors		
Compensated and differential overload relays, with or without alarm TeSys LR9F	From 50 to 630 A	 B11/10
Single pole magnetic over current relays		
Latching or non latching overload relays TeSys RM1	From 1.15 to 630 A	 B11/14
Thermistor-type protection units - For use detection of motor overheating		
Protection units and PTC probes, with or without fault memory protection units TeSys LT3	From 90 to 170 °C	 B11/16
Electronic over current relays - For machine protection or machine protection		
Predefined or adjustable starting times, Manual reset	From 1.5 to 34 A	 B11/18
Manual reset, manual and electric reset	From 0.5 to 50 A	 B11/18

# Protection components

## TeSys LRK thermal overload relays, adjustable from 0.11 to 16 A

### Overload relays

#### 3-pole relays with screw clamp terminals

These overload relays are designed for the protection of motors. They are compensated and phase failure sensitive. Resetting can either be manual or automatic.

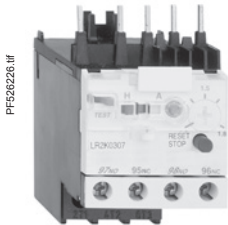
Direct mounting: under the contactor for versions with screw clamp terminals only; pre-wired terminals, see pages B11/26 and B11/28.

Separate mounting: using terminal block LA7 K0064 (see below).

On the front face of the overload relay:

- selection of reset mode: Manual (marked H) or Automatic (marked A),
- red pushbutton: Trip Test function,
- blue pushbutton: Stop and manual Reset,
- yellow trip flag indicator: overload relay tripped.

Protection by magnetic circuit breaker GV2 LE, see pages A5/11 and A5/20.



LR2 K0307

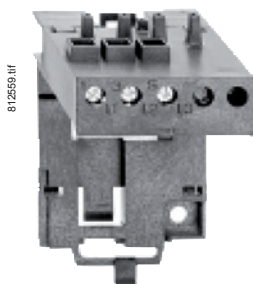
#### Class 10 A (the standard specifies a tripping time of between 2 and 10 seconds at 7.2 In)

Relay setting range	Fuses to be used with selected relay			Reference
	Maximum rating			
	Type			
	aM	gG	BS88	
A	A	A	A	
0.11...0.16	0.25	0.5	–	LR2K0301
0.16...0.23	0.25	0.5	–	LR2K0302
0.23...0.36	0.5	1	–	LR2K0303
0.36...0.54	1	1.6	–	LR2K0304
0.54...0.8	1	2	–	LR2K0305
0.8...1.2	2	4	6	LR2K0306
1.2...1.8	2	6	6	LR2K0307
1.8...2.6	4	8	10	LR2K0308
2.6...3.7	4	10	16	LR2K0310
3.7...5.5	6	16	16	LR2K0312
5.5...8	8	20	20	LR2K0314
8...11.5	10	25	20	LR2K0316
10...14	16	32	25	LR2K0321
12...16	20	40	32	LR2K0322

# Protection components

## TeSys LRK thermal overload relays, adjustable from 0.11 to 16 A

### Overload relays



LA7 K0064

#### Overload relays for unbalanced loads

**Class 10 A:** to order, replace the prefix **LR2** by **LR7** in the references selected from above (only applicable to overload relays **LR2 K0305** to **LR2 K0322**).  
Example: **LR7 K0308**.

#### Accessory

Description	Type of connection	Reference
Terminal block for separate clip-on mounting of the overload relay on 35 mm rail	Screw clamp	LA7K0064