

# TeSys protection components

## 3-pole thermal overload relays, model d

810464



LRD 08●●

810465



LRD 21●●

810466



LRD 33●●

6

53573



LRD 083●●

### Differential thermal overload relays for use with fuses

- Compensated relays with manual or automatic reset,
- with relay trip indicator, ■ for a.c. or d.c.

Relay setting range (A)	Fuses to be used with selected relay			For use with contactor LC1	Reference	Weight kg
	aM (A)	gG (A)	BS88 (A)			
<b>Class 10 A (1) with connection by screw clamp terminals or connectors</b>						
0.10...0.16	0.25	2	–	D09...D38	LRD 01	0.124
0.16...0.25	0.5	2	–	D09...D38	LRD 02	0.124
0.25...0.40	1	2	–	D09...D38	LRD 03	0.124
0.40...0.63	1	2	–	D09...D38	LRD 04	0.124
0.63...1	2	4	–	D09...D38	LRD 05	0.124
1...1.6	2	4	6	D09...D38	LRD 06	0.124
1.6...2.5	4	6	10	D09...D38	LRD 07	0.124
2.5...4	6	10	16	D09...D38	LRD 08	0.124
4...6	8	16	16	D09...D38	LRD 10	0.124
5.5...8	12	20	20	D09...D38	LRD 12	0.124
7...10	12	20	20	D09...D38	LRD 14	0.124
9...13	16	25	25	D12...D38	LRD 16	0.124
12...18	20	35	32	D18...D38	LRD 21	0.124
16...24	25	50	50	D25...D38	LRD 22	0.124
23...32	40	63	63	D25...D38	LRD 32	0.124
30...38	40	80	80	D32 and D38	LRD 35	0.124
17...25	25	50	50	D40...D95	LRD 3322	0.510
23...32	40	63	63	D40...D95	LRD 3353	0.510
30...40	40	100	80	D40...D95	LRD 3355	0.510
37...50	63	100	100	D40...D95	LRD 3357	0.510
48...65	63	100	100	D50...D95	LRD 3359	0.510
55...70	80	125	125	D50...D95	LRD 3361	0.510
63...80	80	125	125	D65...D95	LRD 3363	0.510
80...104	100	160	160	D80 and D95	LRD 3365	0.510
80...104	125	200	160	D115 and D150	LRD 4365	0.900
95...120	125	200	200	D115 and D150	LRD 4367	0.900
110...140	160	250	200	D150	LRD 4369	0.900
80...104	100	160	160	(2)	LRD 33656	1.000
95...120	125	200	200	(2)	LRD 33676	1.000
110...140	160	250	200	(2)	LRD 33696	1.000

### Class 10 A (1) with spring terminal connections (only for direct mounting on the contactor)

0.10...0.16	0.25	2	–	D09...D38	LRD 013	0.140
0.16...0.25	0.5	2	–	D09...D38	LRD 023	0.140
0.25...0.40	1	2	–	D09...D38	LRD 033	0.140
0.40...0.63	1	2	–	D09...D38	LRD 043	0.140
0.63...1	2	4	–	D09...D38	LRD 053	0.140
1...1.6	2	4	6	D09...D38	LRD 063	0.140
1.6...2.5	4	6	10	D09...D38	LRD 073	0.140
2.5...4	6	10	16	D09...D38	LRD 083	0.140
4...6	8	16	16	D09...D38	LRD 103	0.140
5.5...8	12	20	20	D09...D38	LRD 123	0.140
7...10	12	20	20	D09...D38	LRD 143	0.140
9...13	16	25	25	D12...D38	LRD 163	0.140
12...18	20	35	32	D18...D38	LRD 213	0.140
16...24	25	50	50	D25...D38	LRD 223	0.140

### Class 10 A (1) with connection by lug-clamps

Select overload relay with screw clamp terminals or connectors from the table above and add one of the following suffixes:

- figure 6 for relays LRD 01 to LRD 35, ■ A66 for relays LRD 3322 to LRD 3365.

The remaining references are suitable, as standard, for use with lug-clamps.

### Thermal overload relays for use with unbalanced loads

#### Class 10 A (1) with connection by screw clamp terminals

In the references selected above, change LRD (except LRD 4●●●) to LR3 D. Example: LRD 01 becomes LR3 D01.

### Thermal overload relays for use on 1000 V supplies

#### Class 10 A (1) with connection by screw clamp terminals

For relays LRD 06 to LRD 35 only, for an operating voltage of 1000 V, and only for independent mounting, the reference becomes LRD 33●●A66. Example: LRD 12 becomes LRD 3312A66.

Order an LA7 D3064 terminal block separately, see page 6/19.

(1) Standard IEC 60947-4-1 specifies a tripping time for 7.2 times the setting current  $I_n$ :  
class 10 A: between 2 and 10 seconds.

(2) Independent mounting