

TeSys™ D-Line Contactors and Starters

Selection of 3-pole Class 10 Bimetallic Overload Relays

Differential (Single Phase Sensitive) Thermal Overload Relays

Compensated Relays with Manual or Automatic Reset, with Relay Trip Indicator, for ac or dc.

Short-circuit Protection for North American Applications			By Circuit Breaker	Select in Accordance with NEC and Local Codes
			By Fuses	Maximum 400% of Motor FLA

Relay Setting Range	Fuses to be used with Selected Relay			For use with Contactor LC1-	Catalog Number	Weight lb. (kg)
	aM	gG	BS88			

Class 10 with Connection by Screw Clamp Terminals

Relay Setting Range	aM	gG	BS88	For use with Contactor LC1-	Catalog Number	Weight lb. (kg)
A	A	A	A			
0.10 to 0.16	0.25	2	–	D09 to D38 (2)	LRD01	0.27 (0.124)
0.16 to 0.25	0.5	2	–	D09 to D38 (2)	LRD02	0.27 (0.124)
0.25 to 0.40	1	2	–	D09 to D38 (2)	LRD03	0.27 (0.124)
0.40 to 0.63	1	2	–	D09 to D38 (2)	LRD04	0.27 (0.124)
0.63 to 1	2	4	–	D09 to D38 (2)	LRD05	0.27 (0.124)
1 to 1.6	2	4	6	D09 to D38 (2)	LRD06	0.27 (0.124)
1.6 to 2.5	4	6	10	D09 to D38 (2)	LRD07	0.27 (0.124)
2.5 to 4	6	10	16	D09 to D38 (2)	LRD08	0.27 (0.124)
4 to 6	8	16	16	D09 to D38 (2)	LRD10	0.27 (0.124)
5.5 to 8	12	20	20	D09 to D38 (2)	LRD12	0.27 (0.124)
7 to 10	12	20	20	D09 to D38 (2)	LRD14	0.27 (0.124)
9 to 13	16	25	25	D12 to D38 (2)	LRD16	0.27 (0.124)
12 to 18	20	35	32	D18 to D38 (2)	LRD21	0.27 (0.124)
16 to 24	25	50	50	D25 to D38 (2)	LRD22	0.27 (0.124)
23 to 32	40	63	63	D25 to D38 (2)	LRD32	0.27 (0.124)
30 to 38	50	80	80	D32 and D38 (2)	LRD35	0.27 (0.124)
17 to 25	25	50	50	D40 to D95	LRD3322	1.12 (0.510)
23 to 32	40	63	63	D40 to D95	LRD3353	1.12 (0.510)
30 to 40	40	100	80	D40 to D95	LRD3355	1.12 (0.510)
37 to 50	63	100	100	D40 to D95	LRD3357	1.12 (0.510)
48 to 65	63	100	100	D50 to D95	LRD3359	1.12 (0.510)
55 to 70	80	125	125	D50 to D95	LRD3361	1.12 (0.510)
63 to 80	80	125	125	D65 to D95	LRD3363	1.12 (0.510)
80 to 104	100	160	160	D80 and D95	LRD3365	1.12 (0.510)
80 to 104	125	200	160	D115 and D150	LRD4365	1.98 (0.900)
95 to 120	125	200	200	D115 and D150	LRD4367	1.98 (0.900)
110 to 140	160	250	200	D150	LRD4369	1.98 (0.900)
80 to 104	100	160	160	D115 and D150	LRD33656 (1)	2.20 (1.000)
95 to 120	125	200	200	D115 and D150	LRD33676 (1)	2.20 (1.000)
110 to 140	160	250	200	D115 and D150	LRD33696 (1)	2.20 (1.000)

Class 10 with Spring Terminal Connections (for direct mounting on the contactor only)

Relay Setting Range	aM	gG	BS88	For use with Contactor LC1-	Catalog Number	Weight lb. (kg)
0.10 to 0.16	0.25	2	–	D09 to D38 (2)	LRD013	6.31 (0.140)
0.16 to 0.25	0.5	2	–	D09 to D38 (2)	LRD023	6.31 (0.140)
0.25 to 0.40	1	2	–	D09 to D38 (2)	LRD033	6.31 (0.140)
0.40 to 0.63	1	2	–	D09 to D38 (2)	LRD043	6.31 (0.140)
0.63 to 1	2	4	–	D09 to D38 (2)	LRD053	6.31 (0.140)
1 to 1.6	2	4	6	D09 to D38 (2)	LRD063	6.31 (0.140)
1.6 to 2.5	4	6	10	D09 to D38 (2)	LRD073	6.31 (0.140)
2.5 to 4	6	10	16	D09 to D38 (2)	LRD083	6.31 (0.140)
4 to 6	8	16	16	D09 to D38 (2)	LRD103	6.31 (0.140)
5.5 to 8	12	20	20	D09 to D38 (2)	LRD123	6.31 (0.140)
7 to 10	12	20	20	D09 to D38 (2)	LRD143	6.31 (0.140)
9 to 13	16	25	25	D12 to D38 (2)	LRD163	6.31 (0.140)
12 to 18	20	35	32	D18 to D38 (2)	LRD213	6.31 (0.140)
16 to 24	25	50	50	D25 to D38 (2)	LRD223	6.31 (0.140)

Class 10 with Ring-Tongue Terminals for LRD01 through LRD35 (load side terminals only)

Select the appropriate overload relay with screw clamp terminals from the table above and add **6** to the end of the reference.

Example: LRD01 becomes LRD016.

Thermal Overload Relays for use on single phase loads

Class 10 with connection by screw clamp terminals

Change the prefix in the references above from LRD (except LRD4●●●) to LR3D. Example: LRD01 becomes LR3D01.

Thermal Overload Relays for use on 1000 V Supplies

Class 10 with connection by screw clamp terminals

For relays LRD-01 to LRD-35 only, for an operating voltage of 1000 V, and only for independent mounting, the reference becomes LRD33 A66. Example: LRD12 becomes LRD3312A66.

Order an LA7D3064 terminal block separately; see page 137.

- (1) These are special separate mounted versions of the LRD43 overload relays for the LC1D115 and D150 contactors. Part number includes overload relay, terminal block and 6 connectors (unit is not UL/CSA approved).
- (2) When used with D25-D38 contactors, order spacer clip (part number W816366180111). See page 137.



LRD08



LRD21



LRD33



LRD083