



## US Breaker Brand Overload Relays for NC1D Contactors (Square D Telemecanique LR2 Replacements)

- ✓ Standards: UL508, CSA C22.2, IEC 60947, and CE Marked
- ✓ Class 10 Ambient Compensated Overload with Phase Loss Protection
- ✓ Direct Mounts to NC1 Contactor or Individual Mounting Bracket
- ✓ Includes 1NO/1NC Auxiliary Contact
- ✓ Adjustable Amperage Ranges with Automatic and Manual Reset
- ✓ Superior ISO Quality Proven by Multiple Global Standard Certifications

### Overload Relays - Series LR (for NC1D Contactors) - 0.63 to 93A



LR25



LR36



LR93

US Breaker-Brand Part #	Telemecanique Cross Reference		Description	Price Each
	Direct	Similar		
LR 25 A01	LR2 D1305	LRD05	.63-1.0A Adjustable Overload Mounts to NC1- D09, D12, D18, D25 or D32 Contactor	\$18.63
LR 25 A1x6	LR2 D1306	LRD06	1.0-1.6A Adjustable Overload Mounts to NC1- D09, D12, D18, D25 or D32 Contactor	\$18.63
LR 25 A2x5	LR2 D1307	LRD07	1.6-2.5A Adjustable Overload Mounts to NC1- D09, D12, D18, D25 or D32 Contactor	\$18.63
LR 25 A04	LR2 D1308	LRD08	2.5-4A Adjustable Overload Mounts to NC1- D09, D12, D18, D25 or D32 Contactor	\$18.63
LR 25 A06	LR2 D1310	LRD10	4-6A Adjustable Overload Mounts to NC1- D09, D12, D18, D25 or D32 Contactor	\$18.63
LR 25 A08	LR2 D1312	LRD12	5.5-8A Adjustable Overload Mounts to NC1- D09, D12, D18, D25 or D32 Contactor	\$18.63
LR 25 A10	LR2 D1314	LRD14	7-10A Adjustable Overload Mounts to NC1- D09, D12, D18, D25 or D32 Contactor	\$18.63
LR 25 A13	LR2 D1316	LRD16	9-13A Adjustable Overload Mounts to NC1- D09, D12, D18, D25 or D32 Contactor	\$18.63
LR 25 A18	LR2 D1321	LRD21	12-18A Adjustable Overload Mounts to NC1- D12, D18, D25 or D32 Contactor	\$18.63
LR 25 A25	LR2 D1322	LRD22	17-25A Adjustable Overload Mounts to NC1- D18, D25 or D32 Contactor	\$18.63
LR 36 A32	LR2 D2353	LRD32	23-32A Adjustable Overload Mounts to NC1-D D32 Contactor	\$27.38
LR 93 A32	LR2 D3353	LRD3353	23-32A Adjustable Overload Mounts to NC1- D40,, D50, D65, D80, D95 Contactor	\$31.13
LR 93 A40	LR2 D3355	LRD3355	30-40A Adjustable Overload Mounts to NC1- D40,, D50, D65, D80, D95 Contactor	\$31.13
LR 93 A50	LR2 D3357	LRD3357	37-50A Adjustable Overload Mounts to NC1- D40,, D50, D65, D80, D95 Contactor	\$34.88
LR 93 A65	LR2 D3359	LRD3359	48-65A Adjustable Overload Mounts to NC1- D40,, D50, D65, D80, D95 Contactor	\$34.88
LR 93 A70	LR2 D3361	LRD3361	55-70A Adjustable Overload Mounts to NC1- D40,, D50, D65, D80, D95 Contactor	\$37.38
LR 93 A80	LR2 D3363	LRD3363	63-80A Adjustable Overload Mounts to NC1- D40,, D50, D65, D80, D95 Contactor	\$37.38
LR 93 A93	-	-	80-93A Adjustable Overload Mounts to NC1- D40,, D50, D65, D80, D95 Contactor	\$49.00



LR D13

### Overload Relay Individual Mounting Adapters 0.63 TO 93A

US Breaker-Brand Part #	Telemecanique Cross Reference		Description	Price Each
	Direct	Similar		
LR D13	LA7D1064	-	LR 25 Overload Relay Base for Individual DIN Rail Mounting all LR25 Overloads	\$5.50
LR D23	LA7D2064	-	LR 36 Overload Relay Base for Individual DIN Rail Mounting all LR36 Overloads	\$9.50
LR D33	LA7D3064	-	LR 93 Overload Relay Base for Individual DIN Rail Mounting all LR93 Overloads	\$11.00



LR200

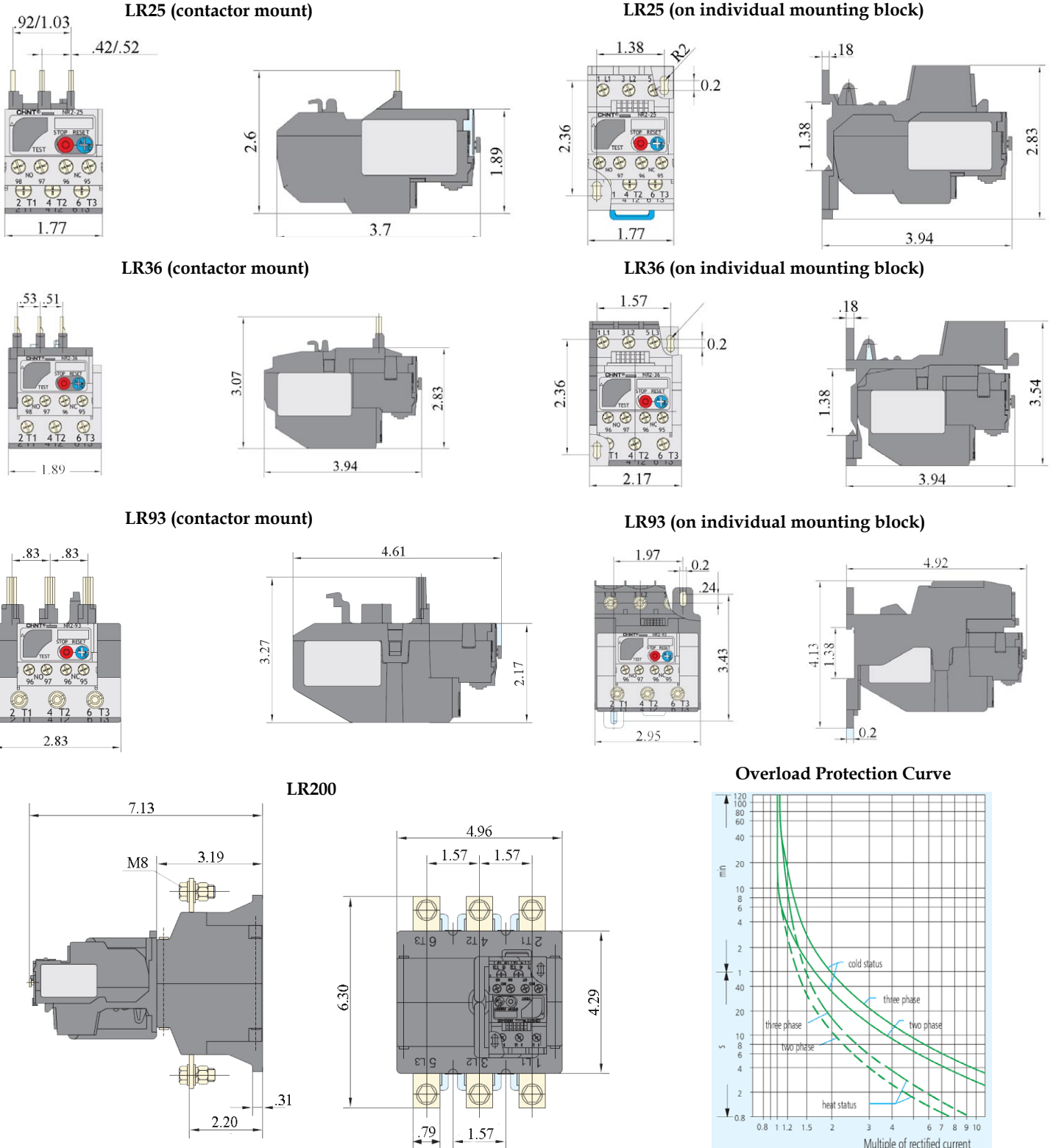
### Individual Mount Overload Relays - Series LR 80 to 200A

US Breaker-Brand Part #	Telemecanique Cross Reference		Description	Price Each
	Direct	Similar		
LR 200 A125	-	LR2F5367	80A-125A Adj. Overload Relay for Assembly with F115, F150 & F185	\$83.99
LR 200 A160	-	LR2F5369	100A-160A Adj. Overload Relay for Assembly with F115, F150 & F185	\$105.90
LR 200 A200	-	LR2F5371	125A-200A Adj. Overload Relay for Assembly with F115, F150 & F185	\$117.00

- Manufacturer cross references are provided to assist product selection. Proper engineering evaluation is required for each customer application.
- Series LR overload relays are intended and UL listed for use with NC1D & Series F family contactors.



**Overload Relay Dimensions (in.)**





## Contactor & Overload Selection Data

### Motor Application - Sizing & Selection by Hp



#### 208V 3 Phase Motor

Hp	Amps (FLA)	US Breaker Contactor	US Breaker Overload Relay (Adjustable)
1/2	2.4	NC1D0910-V__	LR-25-A04 (2.5-4 A)
3/4	3.5	NC1D0910-V__	LR-25-A04 (2.5-4 A)
1	4.6	NC1D0910-V__	LR-25-A06 (4-6 A)
1 1/2	6.6	NC1D0910-V__	LR-25-A08 (5.5-8 A)
2	7.5	NC1D0910-V__	LR-25-A08 (5.5-8 A)
3	10.6	NC1D1210-V__	LR-25-A13 (9-13 A)
5	16.7	NC1D1810-V__	LR-25-A18 (12-18 A)
7 1/2	24.2	NC1D2510-V__	LR-36-A32 (23-32 A)
10	30.8	NC1D3210-V__	LR-36-A32 (23-32 A)
15	46.2	NC1D5011-V__	LR-93-A50 (37-50 A)
20	59.4	NC1D6511-V__	LR-93-A65 (48-65 A)
25	74.8	NC1D8011-V__	LR-93-A80 (63-80 A)
30	88	NC1D9511-V__	LR-93-A93 (80-93 A)
40	114	F115-P3-V__	LR-200-A160 (100-160A)
50	143	F150-P3-V__	LR-200-A200 (125-200A)
60	169	F185-P3-V__	LR-200-A200 (125-200A)
75	211	F265-P3-V__	-

#### 230V 3 Phase Motor

Hp	Amps (FLA)	US Breaker Contactor	US Breaker Overload Relay (Adjustable)
1/2	2.2	NC1D0910-V__	LR-25-A2x5 (1.6-2.5 A)
3/4	3.2	NC1D0910-V__	LR-25-A04 (2.5-4 A)
1	4.2	NC1D0910-V__	LR-25-A06 (4-6 A)
1 1/2	6.0	NC1D0910-V__	LR-25-A08 (5.5-8 A)
2	6.8	NC1D0910-V__	LR-25-A08 (5.5-8 A)
3	9.6	NC1D1210-V__	LR-25-A13 (9-13 A)
5	15.2	NC1D1810-V__	LR-25-A18 (12-18 A)
7 1/2	22	NC1D2510-V__	LR-25-A25 (17-25 A)
10	28	NC1D3210-V__	LR-36-A32 (23-32 A)
15	42	NC1D5011-V__	LR-93-A50 (37-50 A)
20	54	NC1D6511-V__	LR-93-A65 (48-65 A)
25	68	NC1D8011-V__	LR-93-A80 (63-80 A)
30	80	NC1D9511-V__	LR-93-A93 (80-93 A)
40	104	F115-P3-V__	LR-200-A125 (80-125A)
50	130	F150-P3-V__	LR-200-A160 (100-160A)
60	154	F185-P3-V__	LR-200-A200 (125-200A)
75	192	F265-P3-V__	LR-200-A200 (125-200A)

Insert the AC control coil voltage of 24, 120 or 240 (example: NC1D0910-V120)

#### 460V 3 Phase Motor

Hp	Amps (FLA)	US Breaker Contactor	US Breaker Overload Relay (Adjustable)
1/2	1.1	NC1D0910-V__	LR-25-A1x6 (1-1.6 A)
3/4	1.6	NC1D0910-V__	LR-25-2x5 (1.6-2.5 A)
1	2.1	NC1D0910-V__	LR-25-A2x5 (1.6-2.5 A)
1 1/2	3.0	NC1D0910-V__	LR-25-A04 (2.5-4 A)
2	3.4	NC1D0910-V__	LR-25-A04 (2.5-4 A)
3	4.8	NC1D0910-V__	LR-25-A06 (4-6 A)
5	7.6	NC1D0910-V__	LR-25-A10 (7-10 A)
7 1/2	11	NC1D1210-V__	LR-25-A13 (9-13 A)
10	14	NC1D1810-V__	LR-25-A18 (12-18 A)
15	21	NC1D2510-V__	LR-25-A25 (17-25 A)
20	27	NC1D3210-V__	LR-36-A32 (23-32 A)
25	34	NC1D4011-V__	LR-93-A40 (30-40 A)
30	40	NC1D5011-V__	LR-93-A50 (37-50 A)
40	52	NC1D6511-V__	LR-93-A65 (48-65A)
50	65	NC1D9511-V__	LR-93-A80 (63-80A)
60	77	F115-P3-V__	LR-200-A125 (80-125 A)
75	96	F115-P3-V__	LR-200-A125 (80-125 A)
100	124	F150-P3-V__	LR-200-A160 (100-160 A)
125	156	F265-P3-V__	LR-200-A200 (125-200A)
150	180	F265-P3-V__	LR-200-A200 (125-200A)

Insert the AC control coil voltage of 24, 120 or 240 (example: NC1D0910-V120)

#### 115V Single Phase Motors

Hp	Amps (FLA)	US Breaker Contactor	US Breaker Overload Relay (Adjustable) <sup>(1)</sup>
1/2	9.8	NC1D1210-V__	LR-25-A13 (9-13 A)
3/4	13.8	NC1D1810-V__	LR-25-A18 (12-18 A)
1	16	NC1D1810-V__	LR-25-A18 (12-18 A)
1 1/2	20	NC1D2510-V__	LR-25-A25 (17-25 A)
2	24	NC1D3210-V__	LR-36-A32 (23-32 A)
3	34	NC1D4011-V__	LR-93-A40 (30-40 A)
5	56	NC1D6511-V__	LR-93-A65 (48-65A)
7.5	80	NC1D9511-V__	LR-93-A93 (80-93A)

Insert the AC control coil voltage

#### 230V Single Phase Motors

Hp	Amps (FLA)	US Breaker Contactor	US Breaker Overload Relay (Adjustable) <sup>(1)</sup>
3/4	6.9	NC1D0910-V__	LR-25-A08 (5.5-8 A)
1	8	NC1D0910-V__	LR-25-A10 (7-10 A)
2	12	NC1D1810-V__	LR-25-A18 (12-18 A)
3	17	NC1D2510-V__	LR-25-A25 (17-25 A)
5	28	NC1D3210-V__	LR-36-A32 (23-32 A)
7.5	40	NC1D5011-V__	LR-93-A50 (37-50 A)
10	50	NC1D6511-V__	LR-93-A65 (48-65A)

\* 3 phase FLA values are based on NEC Table 430.250 (2020) for induction type squirrel cage & wound rotor motors. Single phase are based on NEC 430.248.

1) US Breaker LR overloads include single phase protection. For single phase motors, loop the 1st pole/phase back up and through the 2nd pole to balance the load.