

Contactor

'd2' Series



Telemecanique

Designed to the requirements of the new standard **IEC947-4** and conforming to international approvals including **UL** and **CSA**, the 'd2' range offers the following:-

CTL134

Contactors

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- 3 Pole Contactors to 150A. 1 No auxiliary contact (except 115A & 150A versions). 1 NO + 1 NC auxiliary contacts for 40 to 95A versions
- Terminal protection to **IP20**
- Terminal markings to international standards
- Suitable for DIN rail and screw fixings

Approved to **UL, CSA, SEV, NEMKO, DEMKO, BV, GL, USSR, LRoS** and **RINA**. Conforming to **IEC** and **CENELEC** standards.

Dimensions:

LC1 D09, D12	H = 74, W = 45, D = 80	LC1 D32	H = 84, W = 56, D = 98
LC1 D18	H = 74, W = 45, D = 85	LC1 D40, D50, D65	H = 127, W = 75, D = 114
LC1 D25	H = 84, W = 56, D = 93	LC1 D80	H = 127, W = 85, D = 125
LC1 D115/150	H = 158, W = 120, D = 132		

Maximum rated voltage (IEC 947-1)	1000V
Auxiliary contact rating (IEC 337-1)	10A th $\leq 55^{\circ}\text{C}$ $\leq 690\text{V}$
Coil voltages	(24V 50/60Hz, 110V 50/60Hz, 240V 50Hz, 415V 50Hz) 85 to 110%
	-40°C to +70°C

Ambient air temp. range	
Coil power: Σ	Pull in
	70VA (LC1 D09, D12, D18)
	110VA (LC1 D25, D32)
	250VA (LC1 D40, D50, D65, D80)
	8VA (LC1 D09, D12, D18)
	8.5VA (LC1 D25, D32)
	26VA (LC1 D40, D50, D65, D80)

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Coil V ac	Mftrs. List No.	Order Code	1+	3+	8+	15+	25+
9A, 4kW (AC3)							
24	LC1 D0910B7	.213-779					
110	LC1 D0910F7	.213-780					
240	LC1 D0910U5	.213-792					
415	LC1 D0910N5	.213-809					
12A, 5.5kW (AC3)							
24	LC1 D1210B7	.213-822					
110	LC1 D1210F7	.213-834					
240	LC1 D1210U5	.213-846					
415	LC1 D1210N5	.213-858					
18A, 9kW (AC3)							
24	LC1 D1810B7	.213-860					
110	LC1 D1810F7	.213-871					
240	LC1 D1810U5	.213-883					
25A, 11kW (AC3)							
24	LC1 D2510B7	.213-901					
110	LC1 D2510F7	.213-913					
240	LC1 D2510U5	.213-925					
32A, 15kW (AC3)							
24	LC1 D3210B7	.213-949					
110	LC1 D3210F7	.213-950					
240	LC1 D3210U5	.213-962					
40A, 22kW (AC3)							
24	LC1 D4011B7	.213-986					
110	LC1 D4011F7	.213-998					
240	LC1 D4011U5	.214-000					
50A, 25kW (AC3)							
110	LC1 D5011F7	.214-036					
240	LC1 D5011U5	.214-048					
415	LC1 D5011N5	.214-050					
65A, 37kW (AC3)							
24	LC1 D6511B7	.214-061					
110	LC1 D6511F7	.214-073					
240	LC1 D6511U5	.214-085					
80A, 45kW (AC3)							
110	LC1 D8011F7	.214-115					
240	LC1 D8011U5	.214-127					
115A, 59kW (AC3)							
110	LC1 D11500F5	334-625					
240	LC1 D11500U5	334-637					
415	LC1 D11500N5	334-649					
150A, 80kW (AC3)							
110	LC1 D15000F7	334-650					
240	LC1 D15000U7	334-662					
415	LC1 D15000N7	334-674					

Thermal Overload Relays

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Thermal Overload Relays

A range of three pole thermal overload relays for direct mounting onto 'd2' contactors for the protection of single or three phase motors. Featuring phase failure, stalled rotor, overload and ambient temperature compensation (-15°C to +55°C). Fitted with 1 NO and 1 NC electrically separate contacts for fault and alarm circuit signalling.

Features include:

- Manual or auto reset selectable
- Dial setting for high accuracy
- Stop and reset functions separated
- Trip test and indication feature
- Transparent protective cover for settings
- Meets the requirements of **IEC 947-4**
- **UL** and **CSA** approved

Contact rating (thermal)	5A $\leq 600\text{V}$
Dimensions (overload relay mounted on contactor)	
LC1 D09, D12, D18 + LR2D1	H = 118, W = 45, D = 98
LC1 D25, D32 + LR2D2	H = 140, W = 56, D = 98
LC1 D40, D50, D65 + LR2D3	H = 175, W = 75, D = 125
LC1 D80 + LR2D3	H = 180, W = 85, D = 130
LC1 D115, D150 + LR2D4	H = 280, W = 222, D = 261.5

CTL136

Motor f.l.c. Range (A)	For use with contactors	Mftrs. List No.	Order Code	1+	3+	8+	15+
Thermal Overload Relays							
0.63 to 1.0	D09-D32	LR2D1305	.213-810				
1.0 to 1.6	D09-D32	LR2D1306	.214-231				
1.6 to 2.5	D09-D32	LR2D1307	.214-243				
2.5 to 4.0	D09-D32	LR2D1308	.214-255				
4.0 to 6.0	D09-D32	LR2D1310	.214-267				
5.5 to 8.0	D09-D32	LR2D1312	.214-279				
7.0 to 10	D09-D32	LR2D1314	.214-280				
9.0 to 13	D12-D32	LR2D1316	.214-292				
12 to 18	D18-D32	LR2D1321	.214-309				
17 to 25	D25-D32	LR2D1322	.214-310				
23 to 32	D25-D32	LR2D2353	.214-322				
30 to 40	D40-D80	LR2D3355	.214-346				
37 to 50	D50-D80	LR2D3357	.214-358				
80 to 104	D115-D150	LR2D4365	.334-698				
95 to 150	D115-D150	LR2D4367	.334-704				
110 to 140	D150	LR2D4369	.334-716				

Control Relays

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A range of four pole control relays with serrated silver contacts and wiping action for maximum reliability. All terminals are protected to **IP20** and have markings to international standards. They are suitable for screw fixing or 35mm DIN rail mounting. General characteristics are similar to the LC1D09. Minimum switching capacity 17V or 5mA.

Dimensions: H = 74, W = 45, D = 80 Coil voltages: (24V 50/60Hz, 110V 50/60Hz, 85 to 110%)

CTL125

Coil Voltage	Mftrs. List No.	Order Code	1+	3+	8+	15+	25+
2 NO + 2NC Contacts							
24	CA2DN22B7	.214-140					
110	CA2DN22F7	.214-152					
240	CA2DN22U5	.214-164					
3 NO + 1 NC Contacts							
110	CA2DN31F7	.214-188					
240	CA2DN31U5	.214-190					
4 No Contacts							
110	CA2DN40F7	.214-218					
240	CA2DN40U5	.214-220					

DC Contactor and Control Relays

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Contactor and control relays for 24V dc control conforming to international standards. The contactor has 3 NO main poles and 1 NO auxiliary. 'd2' range accessories may be fitted to all types.

Suitable for 35mm DIN rail or screw fixing. Finger protection to **IP20** throughout.

Dimensions: Contactor H = 74, W = 45, D = 115
 Relay H = 74, W = 45, D = 115
 AC3 = 12A $\leq 55^{\circ}\text{C}$
 AC1 = 25A $\leq 40^{\circ}\text{C}$

Contact rating $\leq 440\text{V}$
 Auxiliary contacts (IEC 337-1) $\leq 690\text{V}$, 10A thermal $\leq 55^{\circ}\text{C}$
 Coil voltage 24V dc, 9W
 Coil range $\leq 55^{\circ}\text{C}$ 80 to 110% of rated voltage

CTL126

Contacts	Mftrs. List No.	Order Code	1+	3+	8+	15+	25+
3P + 1 NO	LP1D1210BD	.214-425					
2 NO + 2 NC	CA3DN22BD	.214-437					
3 NO + 1 NC	CA3DN31BD	.214-449					
4 NO	CA3DN40BD	.214-450					

Mechanical Latch Block

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For mechanically latching the contactor or relay in the closed position with manual or electrical unlatching. For electrical unlatching the signal can be pulsed (min. 10ms) or maintained (auto cut-out after 15ms).

Warning: The unlatch coil and the contactor or relay must not be energised simultaneously.