



LDC2-Series: 23" One Rack Unit

The LDC2-Series One Rack Unit (1RU) combines GMT fuse and Hydraulic/magnetic Circuit Breaker protection in one compact package.

To reduce space within Telecom cabinets without sacrificing power, Carling Technologies has introduced a versatile 1RU power distribution unit that combines GMT fuse protection with hydraulic-magnetic circuit breaker protection. This new LDC2-Series panel is designed to fit industry standard 23" rack systems.

The LDC2-Series panel features powerful dual feed redundancy for both the circuit breakers and the fuses. Hot "swappable" design allows the panel to be field or factory configured, and upgraded.

Even in this compact package, this new LDC2-Series 1RU panel exceeds the tough demands of today's applications, while offering safety, reliability and performance.

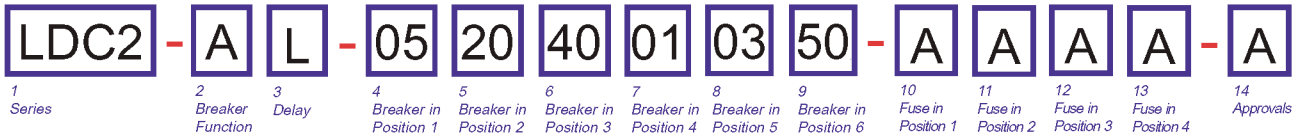
General Specifications

Standards:	UL subject 1801, CUL and TUV Approved CE approval pending
Dimensions:	Rack mounts to EIA standard EIA-310-D 23" rack for a 1RU panel, 1.75" H.
Enclosure:	16 gauge yellow zinc chromate cold rolled steel
Feeds:	Dual feeds, rated up to 150 amps per feed. Max. circuit breakers per feed: 6 Max. breaker rating: 50 amps. GMT fuse feeds rated to 40A. Max. GMT fuses per feed: 4 Max. fuse rating: 10A
Load Connections:	Requires 1 awg wire/ring or fork terminal for 25 A/75 C Rating, Top or bottom wire entry. For 50A load with 25A terminal, fuse leads are through the connector.
Operating Voltage:	-36V to -60V DC (-48VDC nominal)
Alarm Feature:	Power alarm: If either A or B FEED or both fail. Breaker alarm: If any populated breaker is OFF or "tripped." Alarm is not affected by unused breaker positions. LED indicators on the front panel.
LED indicators:	Green lamps on A and B feeds. Red lamp for tripped breaker alarm indication.
Chassis Ground:	Via studs on the back panel. Use two hole X 5/8" center lugs. Via Rack Mounting via brackets to yellow zinc chromate steel panel enclosure.

Features & Benefits

- LDC2-Series incorporates Carling AC-Series hydraulic/magnetic breakers, providing a superior level of performance.
- Versatile design combines circuit breaker and GMT fuse protection in one panel.
- Hot "swappable" circuit breakers that can be installed, changed, or replaced in the field or factory.
- Circuit breakers are front panel accessible.
- Breaker removal tools available upon request for installation and removal of circuit breakers.
- Maximum of six UL489 listed circuit breakers per feed, 12 per panel.
- One Rack Unit (1RU) size.
- Panel plugs provided for non populated circuit breaker slots.
- Short handle circuit breakers to prevent accidental operation.
- Panel is easily configurable and upgradeable in the field. Provides flexibility when designing added features or options.
- Conserves valuable cabinet space to meet the tough demands of today's applications.
- Consult factory or your local Carling Technologies representative for any custom panel requirements.

LDC2-Series Ordering Scheme



1 SERIES LDC2

2 BREAKER FUNCTION	
N No breaker	S Mid-Trip
A Standard Trip	

3 DELAY	
N No breaker	L Medium Delay, Curve 16
M Medium Delay, Curve 14	

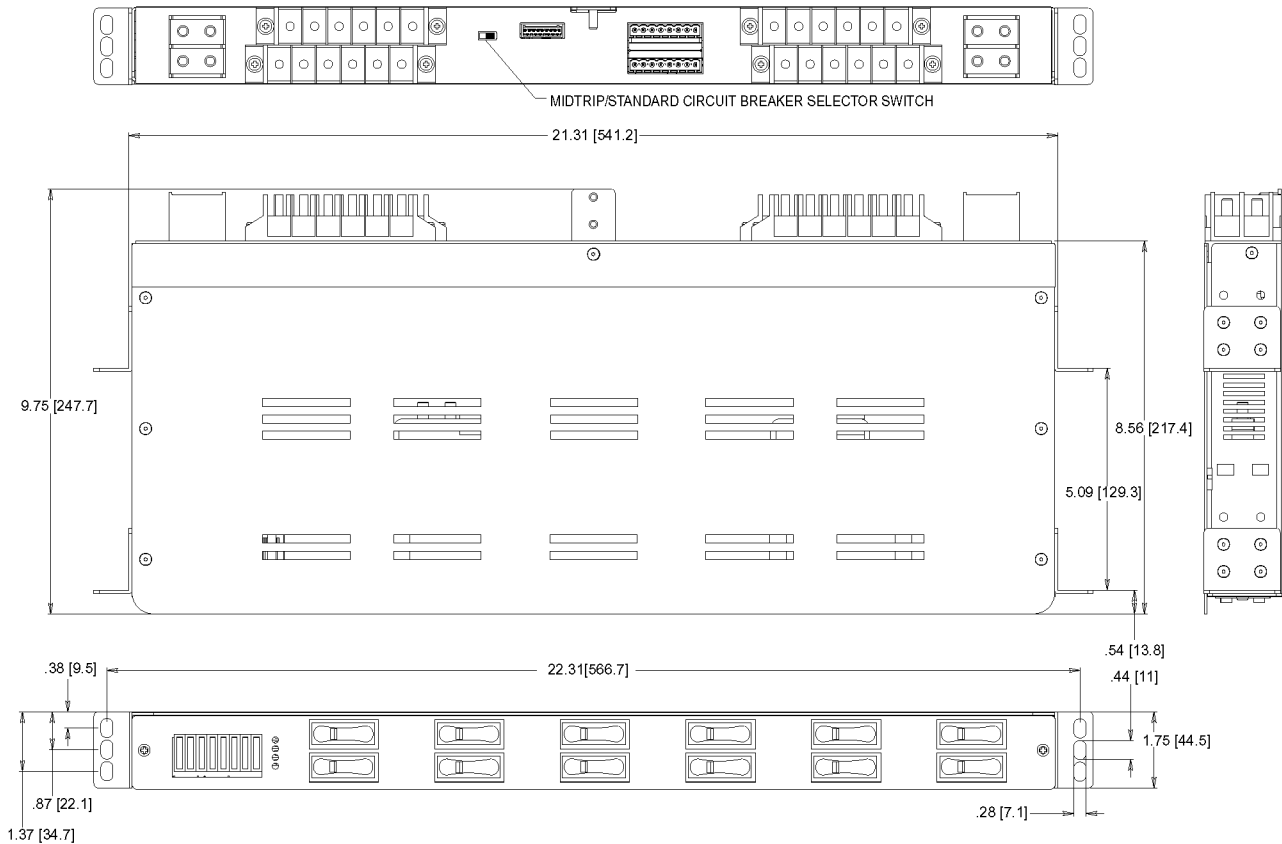
4 through 9 BREAKER RATING	
00 No breaker	20 20 amps
01 1 amp	25 25 amps
03 3 amps	30 30 amps
05 5 amps	35 35 amps
10 10 amps	40 40 amps
15 15 amps	45 45 amps
	50 50 amps

10 through 13 FUSE RATING	
Z Dummy Fuse	F 2 amps
A .25 amp	G 3 amps
B .50 amp	H 4 amps
C .75 amp	I 5 amps
D 1 amp	J 7.5 amps
E 1.5 amps	K 10 amps

14 APPROVALS		
A No approvals	G UL/CUL	J UL/CUL, CE, TUV

NOTES:
 Redundant feed. Breaker layout will be duplicated on the second feed.
 Feeds A and B are rated for 150 amps. Total combined breaker ratings can not exceed 150 amps per feed.
 GMT fuse feeds A & B are rated for 40 amps each. Total combined fuse ratings can not exceed 40 amps.

LDC2-Series Dimensional Specifications



Circuit Breakers

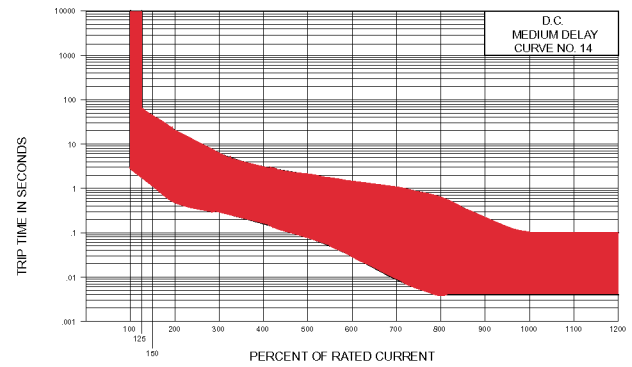
Circuit breakers can be ordered separately to upgrade or reconfigure panel at a later date. Standard circuit breaker part numbers are listed on the chart below. For other ratings, consult factory.

General Specifications:

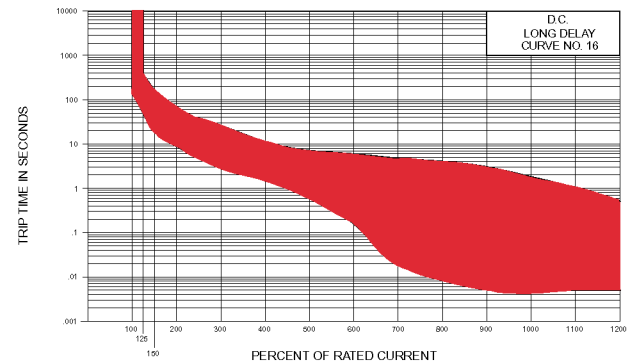
UL489, CSA and VDE approved
10,000 amp interrupting capacity

C-SERIES TIME DELAY VALUES										
TRIP TIME (SECONDS)	PERCENT OF RATED CURRENT									
	Delay	100%	125%	150%	200%	400%	600%	800%	1000%	1200%
	14	No trip	2.00-60.0	1.20-40.0	.600-20.0	.150-3.00	.030-1.30	.004-.600	.004-.100	.004-.100
16	No Trip	45.0-345	20.0-150	9.00-60.0	1.40-11.4	.150-5.80	.009-3.70	.005-1.70	.005-.500	

MEDIUM DELAY, CURVE #14			
RATING (amps)	STANDARD TRIP	MID-TRIP with LDC1-Series	MID-TRIP with LDC2-Series
1	CA1-X0-09-031-AX1-MF	CS1-X0-09-032-AX1-MF	CT1-X0-09-032-AX1-MF
3	CA1-X0-08-981-AX1-MF	CS1-X0-08-992-AX1-MF	CT1-X0-08-992-AX1-MF
5	CA1-X0-08-982-AX1-MF	CS1-X0-08-993-AX1-MF	CT1-X0-08-993-AX1-MF
10	CA1-X0-08-983-AX1-MF	CS1-X0-08-994-AX1-MF	CT1-X0-08-994-AX1-MF
15	CA1-X0-08-984-AX1-MF	CS1-X0-08-995-AX1-MF	CT1-X0-08-995-AX1-MF
20	CA1-X0-08-985-AX1-MF	CS1-X0-08-996-AX1-MF	CT1-X0-08-996-AX1-MF
25	CA1-X0-08-986-AX1-MF	CS1-X0-08-997-AX1-MF	CT1-X0-08-997-AX1-MF
30	CA1-X0-08-987-AX1-MF	CS1-X0-08-998-AX1-MF	CT1-X0-08-998-AX1-MF
35	CA1-X0-08-988-AX1-MF	CS1-X0-08-999-AX1-MF	CT1-X0-08-999-AX1-MF
40	CA1-X0-08-989-AX1-MF	CS1-X0-08-000-AX1-MF	CT1-X0-08-000-AX1-MF
45	CA1-X0-08-990-AX1-MF	CS1-X0-08-001-AX1-MF	CT1-X0-08-001-AX1-MF
50	CA1-X0-08-991-AX1-MF	CS1-X0-08-002-AX1-MF	CT1-X0-08-002-AX1-MF



LONG DELAY, CURVE #16			
RATING (amps)	STANDARD TRIP	MID-TRIP with LDC1-Series	MID-TRIP with LDC2-Series
1	CA1-X0-08-561-AX1-MF	CS1-X0-09-033-AX1-MF	CT1-X0-09-033-AX1-MF
3	CA1-X0-07-803-AX1-MF	CS1-X0-09-003-AX1-MF	CT1-X0-09-003-AX1-MF
5	CA1-X0-07-804-AX1-MF	CS1-X0-09-004-AX1-MF	CT1-X0-09-004-AX1-MF
10	CA1-X0-07-805-AX1-MF	CS1-X0-09-005-AX1-MF	CT1-X0-09-005-AX1-MF
15	CA1-X0-07-806-AX1-MF	CS1-X0-09-006-AX1-MF	CT1-X0-09-006-AX1-MF
20	CA1-X0-07-807-AX1-MF	CS1-X0-09-007-AX1-MF	CT1-X0-09-007-AX1-MF
25	CA1-X0-07-645-AX1-MF	CS1-X0-09-008-AX1-MF	CT1-X0-09-008-AX1-MF
30	CA1-X0-07-646-AX1-MF	CS1-X0-09-009-AX1-MF	CT1-X0-09-009-AX1-MF
35	CA1-X0-07-808-AX1-MF	CS1-X0-09-010-AX1-MF	CT1-X0-09-010-AX1-MF
40	CA1-X0-07-809-AX1-MF	CS1-X0-09-011-AX1-MF	CT1-X0-09-011-AX1-MF
45	CA1-X0-07-810-AX1-MF	CS1-X0-09-012-AX1-MF	CT1-X0-09-012-AX1-MF
50	CA1-X0-07-811-AX1-MF	CS1-X0-09-013-AX1-MF	CT1-X0-09-013-AX1-MF



Circuit Breakers Dimensional Specifications

