

Modular Distribution System (MDS)

Dual Circuit Breaker Module, Model #MDS-DCBM-SP100

Installation Guide

1.1 Overview

Telect's Dual Circuit Breaker Module, Model #MDS-DCBM-SP100, can be installed in any of Telect's nrgSMART™ MDS chassis. This module contains two single-pole breakers, up to 100Amp per circuit.

Please read these instructions carefully before beginning installation. If you need assistance, call Technical Support at 888-821-4856 (domestic calls), or 509-921-6161 (Option 2), or eMAIL us at getinfo@telect.com.

ALERT

ALERT! Verify all connections meet requirements specified in local electric codes or operating company guidelines before supplying power.

1.2 Inspection

Inspect equipment after unpacking and compare it to the packing list. Immediately report any shipping damage, defects, or missing parts to Telect at 1-800-551-4567. Keep all documentation that comes with your shipment.

Telect is not liable for shipping damage. If the package is damaged, notify the carrier and call Telect's Customer Service Department at 1-800-551-4567 (domestic only) or 1-509-926-6000 for further recourse.

ALERT

ALERT! Only qualified technicians may install and maintain this product.

These instructions presume you have verified that the Telect equipment being installed is compatible with the rest of the system, including power, ground, circuit protection, signal characteristics, equipment from other vendors, and local codes or ordinances.

1.3 Important installation guidelines

Circuit overloading: To prevent problems with the over-current protection and supply wiring, do not overload the circuits. Pay attention to equipment ratings listed on the nameplates.

Reliable earthing: Maintain reliable earthing of rack-mounted equipment. Pay attention to supply connections as well as direct connections to the branch circuits.

Disconnect device: Incorporate an easy-to-reach disconnect device.



CAUTION

CAUTION! Do not install breakers with the breakers switched on. Doing so may damage the breakers or the panel.

Telect recommends that the individual loads not exceed 80% of circuit breaker capacity. Total load for all outputs must not exceed 200A.

1.4 Installing the module

1. To install a new module, hold the module by the handle (see Figure 1), align it with the left side of the shelf (see Figure 2), and push in until it fits firmly into the receptacles at the back of the module slot.

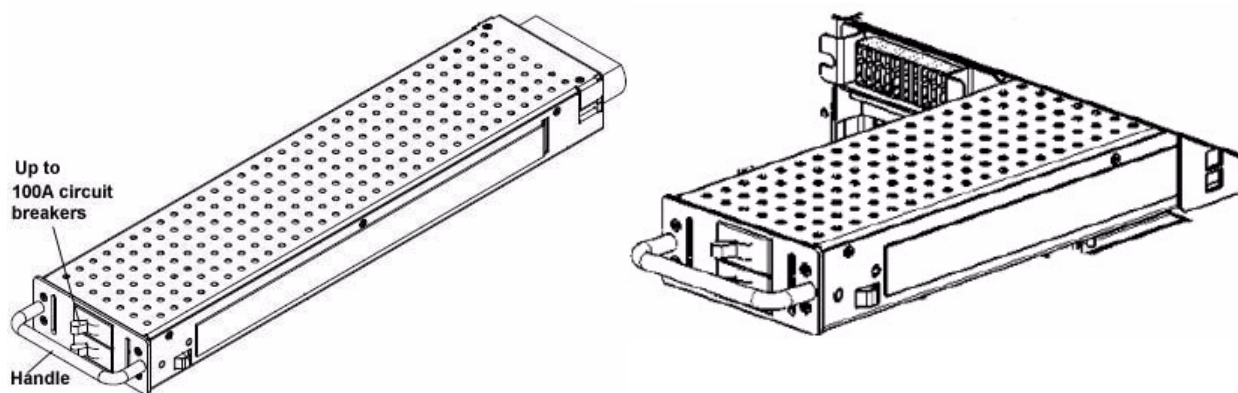


Figure 1 - Model #MDS-DCBM-SP100

NOTE: Install this module in any position in the MDS chassis except the left-most slot, which is reserved for the MDS GMT modules, Model numbers MDS-GMTMS-10x15A and MDS-GMTM-10x15A.

1.5 Installing or replacing a circuit breaker

Use one of the circuit breakers shown in Table 1.

Table 1 - Available circuit breakers

Amps	Part number	Description
100	138392	LMLB1-1RLS4-52-100.0-1-01-V
90	138669	LMLB1-1RLS4-52-90.0-1-01-V
80	138670	LMLB1-1RLS4-52-80.0-1-01-V
70	138671	LMLB1-1RLS4-52-70.0-1-01-V
60	138672	LMLB1-1RLS4-52-60.0-1-01-V
50	138673	LMLB1-1RLS4-52-50.0-1-01-V

Dual Circuit Breaker Module, Model #MDS-DCBM-SP100 Installation Guide

Table 1 - Available circuit breakers

Amps	Part number	Description
40	138674	LMLB1-1RLS4-52-40.0-1-01-V
30	138675	LMLB1-1RLS4-52-30.0-1-01-V
20	138676	LMLB1-1RLS4-52-20.0-1-01-V
15	138677	LMLB1-1RLS4-52-15.0-1-01-V
10	138678	LMLB1-1RLS4-52-10.0-1-01-V
7.5	138679	LMLB1-1RLS4-52-7.50-1-01-V
5	136983	LMLB1-1RLS4-52-5.00-1-01-V
2.5	138680	LMLB1-1RLS4-52-2.50-1-01-V

To install or replace a breaker,

1. Remove the screws from the breaker faceplate shown in the following figure and set them aside in a safe place.

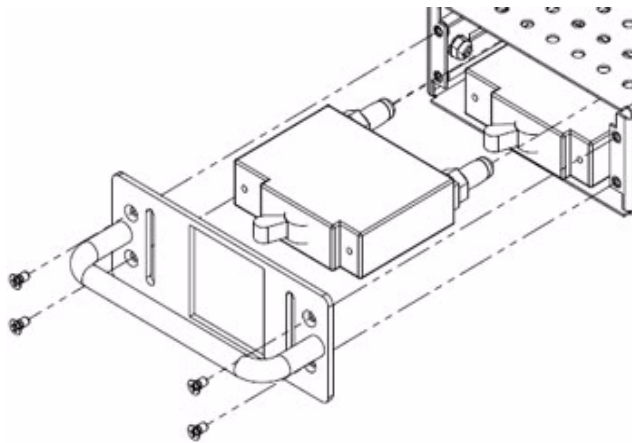


Figure 2 - Installing a breaker

2. Pull the faceplate straight out.
3. If you are replacing a breaker, pull the breaker out from the module's internal receptacles. The "bullet"-style contacts are set tightly into these receptacles, and you may have to wiggle the breaker slightly to remove it.
4. Set the new breaker in line with the receptacles inside to the module and push straight in. Make sure to orient the module as shown.
5. Using the screws from step 1, replace the breaker faceplate.

1.6 Specifications

Inputs	Specification
Voltage range	$\pm@20$ Vdc to ±60 Vdc @20° C $\pm@22$ Vdc to ±58 Vdc @55° C
Maximum input	200A
Maximum power dissipation	6000 watts
Maximum Interrupt	250A power breaker
Maximum Continuous Load	100A

NOTE: Telect assumes no liability from the application or use of this product. This document and the product described herein are subject to change without notice.