

# Molded Case Circuit Breakers

## Electronic and Communications Accessories

**Selection**

### Electronic & Display Devices

#### Local Display Unit

Breaker Type	Catalog Number	List Price \$
SJD, SLD, SMD, SND, SPD	LDU-100	1343.00

The Local Display Unit (LDU) provides a centralized read-out of all Sensitrip III breakers. The device provides a panel mountable display for all trip unit data including phase currents and alarms for up to 32 breakers. Also communicates with other ACCESS™ devices.

#### Trip Unit Test Set

Type	Catalog Number	List Price \$
SJD, SLD, SMD, SND, SPD, Portable	TS31	13835.00
Spare TS-31 Test Set Interconnecting Cable	TS31CABLE	188.00

The TS-31 test set is used to test the operation of the fault protection functions of the circuit breaker's trip unit, including long-time, short-time, instantaneous, and ground fault by means of secondary current injections.

#### Sensitrip Ammeter Display Unit

Breaker Type	Catalog Number	List Price \$
SJD, SLD, SMD	SADU	1776.00
SND, SPD	SADURMK18	342.00

The Sensitrip Ammeter Display Unit (SADU) provides real-time metering for all Sentron-Sensitrip III Molded Case Circuit Breakers. The unit plugs directly onto the front of the trip unit and provides displays for individual phase currents flowing through the breaker. Additional features include Average, Demand, Ground and Unbalance Current displays, along with impending Trip Status. Current Metering Logs, and a unique diagnostic Trip Log that records the date, time and type of fault for the previous five breaker trips. The device is UL and CSSA certified.

The optional panel mount accessory (SADURMK18) allows easy device mounting external from the circuit breaker, in panelboard and switchboard spaces or gutters, with the flexibility of interior panel exterior panel, or wall mounting capability.

The 2 x 16 alphanumeric LCD display provides easy viewing of data, such as viewing all three phase currents simultaneously.

#### SADU Plug-in Mounting



#### SADU Ammeter Display Unit



- Direct plug-in or Panel Mounting\*
- Trip Unit Powered & Battery back-up
- 2 x 16 LCD Alphanumeric Display\*
- Ammeter Display Functions
  - RMS Phase Currents
  - Average Current\*
  - Current Demand\*
  - Ground Current
  - Current Unbalance (%)\*
- Breaker Status
  - Normal
  - Impending Trip\*
- Time Stamped Trip Log (last 5)
  - Time & Date\*
  - Trip Cause: LT, ST, GF, SC
- Max Log (with date & time)
  - Max Phase Current\*
  - Max Average Current\*
  - Max Ground Current\*
  - Max Unbalance Current\*
  - Max Current Demand\*

\* Unique Features

# Molded Case Circuit Breakers

## Communications Accessories

## Selection



### ACCESS™ Communications<sup>①</sup>

Siemens electronic trip units feature two levels of communication: Zone Selective Interlocking and ACCESS™ System Open-protocol communications. The trip units are fully equipped for direct integration into ACCESS™ or compatible communication systems.

A multiplexor/Translator (MTA) and Expansion Plug area required for the TYPE "TL" and Sensitrip trip units when full Access™ communications is specified. The MTA also has Zone Selective Interlocking capability. Refer to Bulletin IPIM-2211A and Instruction Sheet Pc. No. 411152A00 for additional information.

Siemens WinPM.net power monitoring software delivers a powerful energy management system providing sophisticated monitoring capability to a host computer and other components in the electrical distribution system at an affordable cost. It also provides process control, including peak demand, trend analysis, waveform analysis, and harmonic calculations and displays. These functions help pinpoint energy consumption, power quality issues, and the energy cost of any process. Outages and potential outages can be quickly diagnosed and plans can be generated for expansion and preventative plant maintenance. Refer to Bulletins IPIM-2211A for additional information.

Communications is accomplished via RS-485 twisted pair wire or modem, providing communications to a remote site and allowing access to multiple plants. With integration of an Access™ Siemens Power Interface (SPI), communication with Modbus networks is enabled. This part provides the ability to communicate directly to a PC with WinPM.net or any Modbus master.

### Multiplexor Translator

Breaker Type	Features	Catalog No	List Price \$
SJD, SLD SMD, SND SPD, STD	Zone Interlocking Only	MTZ	1946.00
	Full Communications with Zone Interlocking	MTA	4334.00

The Multiplexor Translator MTZ is an interface device required in zone selective interlock schemes. The MTA combines the zone selective interlocking function with interface to ACCESS® Systems.

### Cables & Connectors

#### Ribbon Cables

Breaker Type	Length	Catalog No	List Price \$
SJD, SLD SMD, SND SPD	6"	EPC06	59.00
	8"	EPC08	59.00
	12"	EPC12■	79.00
	18"	EPC18	96.00
	24"	EPC24■	124.00

#### Telephone Cables

Breaker Type	Length	Catalog No	List Price \$
SJD, SLD SMD, SND, SPD	8'	MTC08	79.00
	15'	MTC15	118.00
	25'	MTC25	155.00
	50'	MTC50	155.00

The Expansion Plug EP is a required isolating device to connect the breaker with the Multiplexor Translator. It is connected to the trip unit on the breaker with a "Ribbon Cable", EPC08 e.g., and the Multiplexor Translator with the "Telephone Cable" (an RJ-11 cable) MTC50 e.g.

### Expansion Plug Selection Guide

Breaker Type	Frame Size	Mounting Type	Catalog Number	List Price \$
Sensitrip	ALL	ALL	EP	209.00

### Component Selection Guide<sup>②</sup>

Trip Units and Application		
Component Type	ZSI (only) with Sensitrip MCCB'S	Access and/or ZSI with Sensitrip MCCB's
EP	✓	✓
MTZ <sup>③</sup>	✓	
MTA <sup>③</sup>		✓
EPC Cable	✓	✓
MTC Cable <sup>④</sup>	✓	✓

■ Built to order. Allow 2-3 weeks for delivery.

▲ Built to order. Allow 6-8 weeks for delivery.

① Factory wired when ACCESS communications or ZSI is ordered for the SB breaker from the factory.

② When ordered with circuit breaker from the factory.

③ One MTA or MTZ per eight trip units when required.

④ Always required when multiple MT's are used. One additional cable per each additional MT.