DATA SHEET


FEATURES

Large switching capacity in a small footprint
Switch up to 16 A current - highest in its class
High breakdown voltage ( $1,000 \mathrm{~V}$ rms between
open contacts)
Ideal for switching AC or DC power supplies and current sources

Fail-safe interrupt inputs that can detect a fault condition automatically open up relays to their default state

Combine with other EX1 200 switch modules to form
a switching subsystem

## OVERVIEW

The EX1200-2001 is the only switch module in its class with the ability to switch up to 16 A Some applications include: AC line power switching, switching of DC or AC power supplies, control or driving relays for industrial machines (robotics, numerical control machines), automotive engine control, and solenoid switching.

Since this module typically switches power to the UUT or interface, the digital input lines on the EX1 200 series mainframes support the ability to force all relays automatically to their normally open state if a fault condition occurs. This approach instantly removes all power to the UUT or interface. This module can be automatically configured in the setup phase at the beginning of each scan step to facilitate test sequencing and control.

The EX1200-2001 can be controlled programmatically using lviswtch-compliant calls. Both path level programming and individual relay control are available.


## General Specifications

CHANNEL COUNT
MAXIMUM SWITCHING VOLTAGE
MAXIMUM SWITCHING CURRENT
MAXIMUM SWITCHING POWER
RATED SWITCH OPERATIONS
Mechanical
Electrical
SWITCHING TIME
PATH RESISTANCE
INSULATION RESISTANCE
MAXIMUM THERMAL OFFSET
PER CHANNEL (H-LO)
CAPACITANCE
Open channel
Channel-mainframe
BANDWIDTH ( -3 dB )
INSERTION LOSS (TYPICAL)
100 kHz
1 MHz
10 MHz
CROSSTALK (TYPICAL)
100 kHz
1 MHz
10 MHz
CONNECTOR TYPE

20 SPST
250 V AC rms, 300 V DC
16 A
480 W DC, 4000 VA per channel
$1 \times 10^{7}$
$1 \times 10^{5}$ at full load
$<10 \mathrm{~ms}$
$<100 \mathrm{~m} \Omega$
$>1 \times 10^{9} \Omega$
$<50 \mu \mathrm{~V}$
< 20 pF
< 75 pF
40 MHz (typical)
$<0.2 \mathrm{~dB}$
$<0.5 \mathrm{~dB}$
$<1.0 \mathrm{~dB}$
$<-50 \mathrm{~dB}$
$<-35 \mathrm{~dB}$
$<-20 \mathrm{~dB}$
41-pin

EX1200-2001
ACCESSORIES AND TOOLS
70-0190-001 Connector kit (includes 1 each connector and backshell plus 44 pins)
27-0087-041 Connector, power, female with backshell, insulated, 41 PLC
27-0087-000 Contact, female, crimp, power connector, 14-16 GA (Order qty: 41 per board)
46-0012-000 Crimp tool and turret head
46-0014-000 Tool, contact insertion, size 16 contact, AMP M series
46-0015-000 Tool, pin extractor, power/coaxial
70-0363-506

20-channel, 16 Amp form A (SPST) switch

41-pin, 16GA, unterminated cable assembly, 3 ft

