DATA SHEET



EX1200-2002

12-CHANNEL 16 AMP FORM C (SPDT) SWITCH

FEATURES

Large switching capacity in a small footprint

Switch up to 16 A current - highest in its class

High breakdown voltage (1,000 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 EX1200 switch modules to form a switching subsystem



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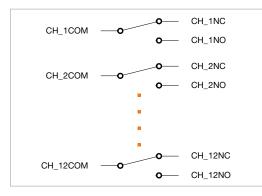
OVERVIEW

The EX1200-2002 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.

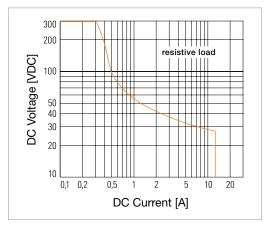
Since this module typically switches power to the UUT or interface, the digital input lines on the EX1200 series mainframes support the ability to force all relays automatically to their normally open state if a fault condition occurs. This approach instantly removes all power to the UUT or interface. This module can be automatically configured in the setup phase at the beginning of each scan step to facilitate test sequencing and control.

The EX1200-2002 can be controlled programmatically using lviSwtch-compliant calls. Both path level programming and individual relay control are available.





SWITCHING CAPACITY



The switching capacity curve shows the maximum voltage and maximum current that can be switched simultaneously by the card. Switching above these limits can reduce life of the relays on the card and is not recommended.

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General Specifications

CHANNEL COUNT	12 SPDT
MAXIMUM SWITCHING VOLTAGE	250 V AC rm
MAXIMUM SWITCHING CURRENT	16 A
MAXIMUM SWITCHING POWER	480 W DC, 4
RATED SWITCH OPERATIONS	
Mechanical	5 x 10 ⁷
Electrical	1 x 10 ⁵ at ful
SWITCHING TIME	< 10 ms
PATH RESISTANCE	< 100 mΩ
INSULATION RESISTANCE	> 1 X 10 ⁹ Ω
MAXIMUM THERMAL OFFSET PER CHANNEL (HI-LO)	< 50 µV
CAPACITANCE	
Open channel	< 20 pF
Channel-mainframe	< 75 pF
BANDWIDTH (-3 dB)	40 MHz (typi
INSERTION LOSS (TYPICAL)	
100 kHz	< 0.2 dB
1 MHz	< 0.5 dB
10 MHz	< 1.0 dB
CROSSTALK (TYPICAL)	
100 kHz	< -50 dB
1 MHz	< -35 dB
10 MHz	< -20 dB
CONNECTOR TYPE	41-pin

12-channel	EX1200-2002	
	ACCESSORIES AND TOOLS	
Connector k	70-0190-001	
Connector, p	27-0087-041	
Contact, fen	27-0087-000	
Crimp tool a	46-0012-000	
Tool, contac	46-0014-000	
Tool, pin ext	46-0015-000	
41-pin, 16G	70-0363-506	

EX1200-2002 12-Channel 16 A Form C (SPDT) Switch

rms, 300 V DC

, 4000 VA per channel

full load

ypical)

Ordering Information

16 Amp form C (SPDT) switch

kit (includes 1 each connector and backshell plus 44 pins) power, female with backshell, insulated, 41 PLC

male, crimp, power connector, 14 - 16 GA (Order qty: 41 per board) and turret head

act insertion, size 16 contact, AMP M series

tractor, power/coaxial

GA, unterminated cable assembly, 3 ft

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