

Product Profile



Next Generation Terminal Block Relays

Rockwell Automation is introducing new Allen-Bradley® 700-HL Next Generation Terminal Block Relays (TBR). While maintaining the popular features of the standard 700-HL family of terminal block relays, these new offerings provide wide range control voltage, push-in terminal technology, built in leakage current suppression, and a wiring system adapter to meet the demands of high-density isolation and interposing applications.

Hazardous Location Certification Versions

These relays have the following approvals:

- Class 1 Div 2 Groups A, B, C, D
- Class 1 Zone 2 Group IIC
- ATEX

Space Savings

Meets the demand for panel space savings with our 6.2 mm wide hazardous location approved version of the popular 700-HL TBR family.

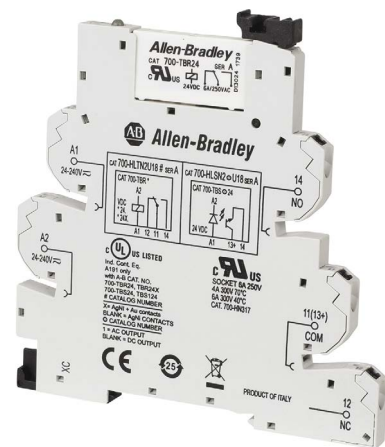
Easy, Cost Effective Installation

Electrical wiring costs can be reduced up to 50% on projects. For example, the use of the 20-way jumper requires only one wire to connect to a terminal.

Now with new push-in terminal technology available, make the update to your system now to reduce cost and improve efficiency.

Standard Built-In Protection

- Reverse DC polarity protection ensures DC coil devices are not damaged if improper polarity is connected.
- Leakage current suppression provided with wide range control voltage versions.







Relay Specification Overview

Type	Screw Terminal or Push-in Terminal		
Output Style	SPDT (1C/O)		
Wire Range	0.14 mm ² ...2.5 mm ² (#26...#14 AWG)		
Pilot Duty Rating	6A B300, R300		
	Inductive	1-Pole	
Contacts		Make	Break
	24V AC, 1-phase	30 A	5 A
	120V AC, 1-phase	30 A	3 A
	240V AC, 1-phase	15 A	1.5 A
	Inductive DC	24V DC 120V DC 240V DC	1.0 A, DC-13 0.2 A, DC-13 0.1 A, DC-13
	Resistive Make, Break and Continuous	24V DC 250V AC 240V DC	6A 6A Out A
Min. Permissible Contact Ratings	Standard Silver: 12V, 10mA (120mW) Gold Plated: 8V, 3mA (25mW)		
Permissible Coil Voltage Variation	85...110% of Normal Voltage at 50HZ 85...110% of Normal Voltage at 60HZ 80...110% of Normal Voltage at DC		
Contact Material	Silver Ox., AgSnO Silver with Gold Plating, AgSnO/Au		
Output Ratings	I _{th} = 6 A		
Standards	cULus, cURus, ABS, RINA, CE		
Hazardous Location	Class 1, Div. 2 Groups A, B, C, D, Class 1, Zn 2, Groups IIC, Ex nC IIC T5 Ta <lt;/> 55° C, ATEX		

Solid State Relay Specification Overview

Output Style	1N.O. Solid State		
Pilot Duty Rating	2A (DC Output)		2A (AC Output)
Control Circuit	Minimum Control Voltage	80% Nominal Voltage	
	Maximum Control Voltage	110% Nominal Voltage	
	Control Current	4 mA+/-10% (120/240V) 9 mA+/-10% (24V)	
	Release Voltage	0.4 x nominal voltage (24V), 0.35 x nominal voltage (120V/240V)	
Outputs	Load Voltage Range	1.5...33V DC	12...275V AC
	Maximum Repetitive Blocking Voltage	33V	600V
	Maximum Switching Current	2A DC	2A AC
	On State Voltage Drop @ Maximum Switching Current	< 400 mV DC	< 1.5V AC
	Leakage Current	Maximum 100mA	Maximum 1.5mA

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