

PRODUCT PROFILE

TERMINAL BLOCK RELAYS

HAZARDOUS LOCATION APPLICATIONS

Rockwell Automation is introducing new Allen-Bradley 700-HL Terminal Block Relays (TBR). These new relays have been designed to meet the stringent requirements of hazardous location applications while maintaining the functionality of the existing 700-HL family of TBRs.

HAZARDOUS LOCATION CERTIFICATION

These new relays have the following approvals:

- C-UL-US (24V DC versions) and UL (120V AC versions)
- Class 1 Div 2 Groups A,B,C,D
- Class 1 Zone 2 Group IIC

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

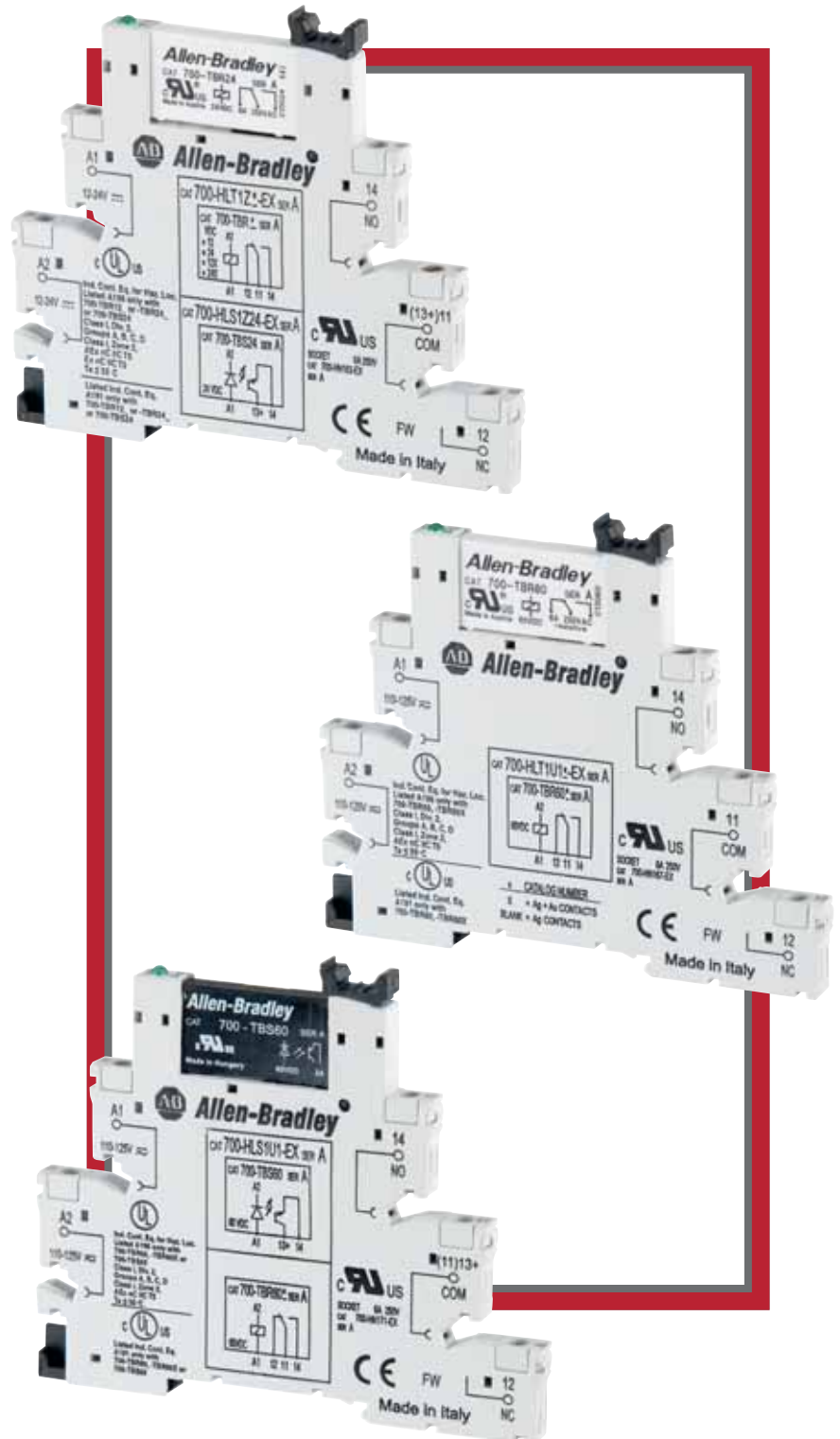
Electrical wiring costs can be reduced up to 50% on projects. For example, the use of the 20-way jumper wiring system requires only one wire to connect to a terminal.

STANDARD BUILT-IN PROTECTION

Reverse DC polarity protection ensures DC coil devices are not damaged if improper polarity is connected.

AVAILABLE PART NUMBERS:

700-HLT1Z24-EX	24V DC
	Electromechanical
700-HLS1Z24-EX	24V DC Solid State
700-HIT1U1-EX	120V AC
	Electromechanical
700-HLS1U1-EX	120V AC Solid State



Relay Specification Overview			
Type	Screw Terminal or Spring Clamp		
Output Style	SPDT (1C/0)		
Wire Range	0.14 mm ² ... 2.5 mm ² (#26 ... #14 AWG)		
Pilot Duty Rating	6A B300, R300		
Contacts	Inductive	1-Pole	
		Break:	Make:
	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
Make/Break and Continuous V DV		24V DC	1.0 A
		120V DC	0.2 A
		240V DC	0.1 A
Min. Permissible Contact Ratings	Standard Silver: 12V, 6 mA (72mW) Gold Plated: 8V, 2.5 mA (50mW)		
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	Ith = 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		
Approvals	UL Listed	700-HLT1Z24-EX, 700-HLS1Z24-EX (24V DC supply) 700-HLT1U1-EX, 700-HLS1U1-EX (110V/125V AC/DC supply)	
	CSA Certified	700-HLT1Z24-EX, 700-HLS1Z24-EX (24V DC supply)	
Solid State Relay Specification Overview			
Output Style	1N.O. Solid State		
Pilot Duty Rating	2A, 24V DC		
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)	
	Minimum Control Circuit Resistance	3200 ohms (24V), x 16k ohms (120V), 32k ohms (240V)	
Outputs	Load Voltage Range	0 ... 24V DC	
	Maximum Repetitive Blocking Voltage	33V	
	Maximum Switching Current	2A DC	
	On State Voltage Drop @ Maximum Switching Current	< 120 mV DC	
	Leakage Current	Maximum 100 A (@U = 24V)	

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