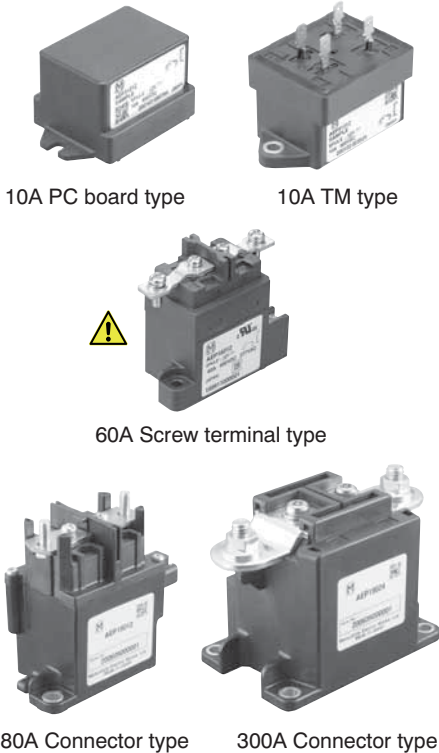



HIGH VOLTAGE AND CURRENT CUT-OFF CAPACITY IN A COMPACT PACKAGE

EP RELAYS



 Products to be discontinued.

FEATURES

1. High-voltage, high-current control capable

400V DC high-voltage switching cutoff has been achieved thanks to a sealed construction with mixed hydrogen gas and the magnetic arc motion through use of a permanent magnet.

2. Compact & Low Operating Sound

By using a capsule contact mechanism that is enclosed with hydrogen gas, high-capacity cutoff is possible even with a tiny contact gap. There is little operating sound, which does not change even when large currents are cut off.

3. Arc space unnecessary

The enclosure box can be made smaller thanks to an arc-space-free construction beyond which the arc will not go.

4. Safety

Since the contacts are enclosed in a sealed capsule structure, beyond which the arc will not go, safety is ensured.

5. High contact reliability

The contact part is hermetically sealed with H₂ mixed gas, hence the contact resistance remains stable regardless of the ambient conditions.

6. Mounting direction is not specified

The weight of the movable parts is light, and also the restoring force is large, hence the relay is relatively unaffected by gravity.

7. Wide selection of models available.

Types include PC board type, TM type (10A), screw terminal type (60A), and connector type (80A and 300A).

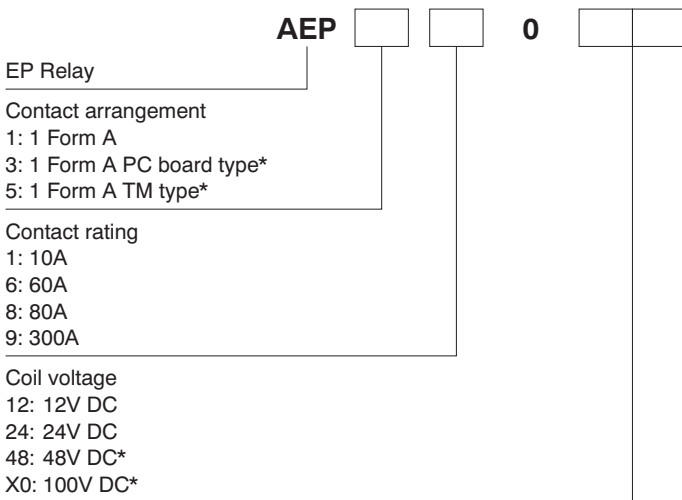
8. Standard compliance

The 60A type is UL and C-UL standard certified.

TYPICAL APPLICATIONS



1. Cogeneration systems
2. Battery inspection and testing equipment (charge and discharge control)
3. Construction machinery
4. AGV (Automatic guided vehicle) (Unmanned transport carts)
5. Welding equipment
6. Inverter control
7. Solar power generation systems
8. Elevator, etc.

ORDERING INFORMATION



Note: *10A type only

TYPES

Ttpe	Nominal coil voltage	Contact arrangement	Part No.	Packing quantity	
				Carton	Case
10A PC board type	12V DC	1 Form A	AEP31012	25pcs.	100pcs.
10A TM type			AEP51012	25pcs.	100pcs.
60A			 AEP16012	1pc.	20pcs.
80A Connector type*			AEP18012	1pc.	20pcs.
300A Connector type*			AEP19012	1pc.	5pcs.
10A PC board type	24V DC		AEP31024	25pcs.	100pcs.
10A TM type			AEP51024	25pcs.	100pcs.
60A			 AEP16024	1pc.	20pcs.
80A Connector type*			AEP18024	1pc.	20pcs.
300A Connector type*			AEP19024	1pc.	5pcs.
10A PC board type	48V DC	AEP31048	25pcs.	100pcs.	
10A TM type		AEP51048	25pcs.	100pcs.	
10A PC board type	100V DC	AEP310X0	25pcs.	100pcs.	
10A TM type		AEP510X0	25pcs.	100pcs.	

Notes: * One female connector lead wire for connecting is packaged with the 80A and 300A connector types.
 -Specifications: Housing: Yazaki 7283-1020 (light gray); Lead wire: 0.5 mm² dia. and 300±10 mm length
 Lead wire coating color: Pin No. 1: white; Pin No. 2: green

RATING

1. Coil data

Type	Nominal coil voltage	Pick-up voltage (at 20°C 68°F)	Drop-out voltage (at 20°C 68°F)	Nominal coil current [±10%] (at 20°C 68°F)	Nominal operating power (Nominal voltage applied to the coil, at 20°C 68°F)	Max. allowable voltage						
10A	12V DC	75%V or less of nominal voltage (Initial)	8%V or more of nominal voltage (Initial)	0.103A	Max. 1.4W	130%V of nominal voltage						
60A				0.415A	Max. 5W							
80A				0.375A	Max. 5W							
300A				3.3A (during peak)	When input: 40 W max. (0.1 sec. from time of input) When retained: 4 W max.							
10A	24V DC			75%V or less of nominal voltage (Initial)	8%V or more of nominal voltage (Initial)		0.052A	Max. 1.4W	130%V of nominal voltage			
60A							0.208A	Max. 5W				
80A							0.188A	Max. 5W				
300A							1.85A (during peak)	When input: 45 W max. (0.1 sec. from time of input) When retained: 4 W max.				
10A	48V DC						75%V or less of nominal voltage (Initial)	8%V or more of nominal voltage (Initial)		0.026A	Max. 1.4W	130%V of nominal voltage
10A	100V DC									0.012A		

*When using a DC power supply use one that has a leeway of at least 150% current capacity.