

# AE series power relay

## Main feature

1. 2-Pole and 4-Pole version are available with switching current at 12 Amps (2-Poles) and 6 Amps (4-Poles) .
2. Low coil power consumption with high response time.
3. High reliability and long life with better vibration and shock resistance.
4. Touch button and LED (European version) are available.



## Specification

Contact	Contact form		2C	4C
	Rated load	Resistive (AC-1)	10A/250VAC 30VDC	5A/250VAC 30VDC
		Motor (AC-15)	1/3HP 240VAC	1/6 HP 240VAC
	Operating power (Resistive)		2500VA 300W	1250VA 150W
	Contact resistance (Initial)		≤ 50mΩ	
	Contact material		Ag alloy	
	Electrical life		≥ 10 <sup>5</sup> cycles (1800 Ops/h)	
	Mechanical life		≥ 10 <sup>7</sup> cycles (18000 Ops/h)	
Operate voltage (at 25°C)			DC: ≤75% Rated voltage, AC: ≤80% Rated voltage	
Release voltage (at 25°C)			DC: ≥10% Rated voltage, AC: ≥ 30% Rated voltage	
Max. allowed voltage (at 25°C)			110% Rated voltage	
Insulation resistance			≥ 500MΩ (500VDC)	
Coil power consumption	DC (W)		0.9 W	
	AC (VA)		1.2 VA	
Operate time			≤ 20ms	
Release time			≤ 20ms	
Dielectric Strength	Between contacts		1000 VAC/1 min	
	Between contacts (different pole)		1000 VAC/1 min	
	Between contacts and coil		2000 VAC/1 min	
Ambient temperature			-55 — +70 °C	
Humidity			35% — 85% RH	
Atmospheric pressure			86 — 106 KPa	
Shock resistance			Half a wave of pulses of sine: 11ms	
Vibration resistance			11 — 55Hz Dual amplitude: 1.0mm	
Install model			Plug-in terminals / PCB terminal	
Weight			35g	

## Coil specification (at 25°C)

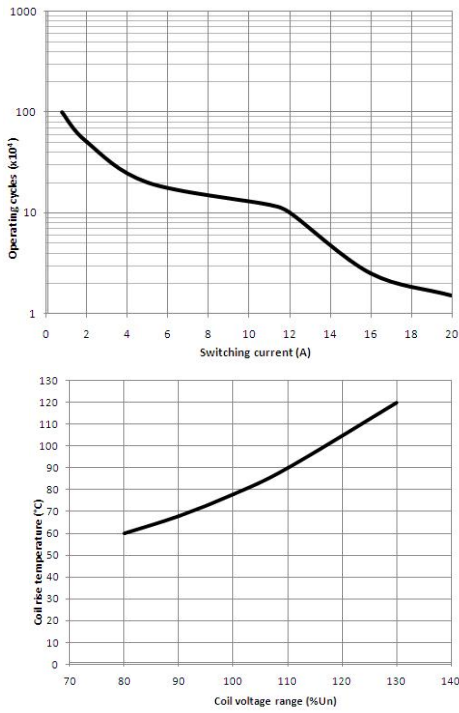
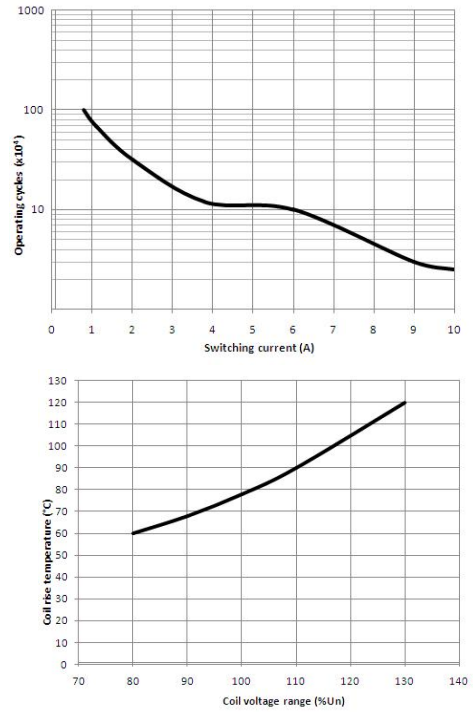
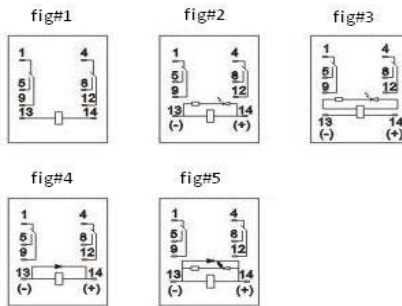
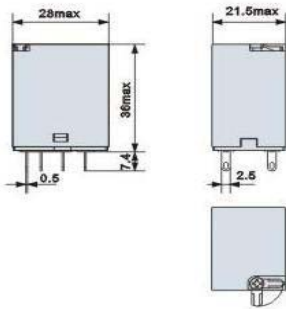
AE	Coil voltage code	01	02	03	04	05	07
2P & 4P	Rated voltage (V) AC	6	12	24	48	110	220
AC Coil	Coil resistance (Ω) ±10%	11.5	40	160	600	3750	13000
AE	Coil voltage code	01	02	03	04	05	07
2P & 4P	Rated voltage (V) DC	6	12	24	48	110	220
DC Coil	Coil resistance (Ω) ±10%	40	160	630	2600	11000	42000

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**Ordering information**

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	<b>AE</b>	<b>-</b>	<b>4</b>	<b>07</b>	<b>A</b>	<b>L</b>	<b>T</b>	<b>U</b>
<b>Type:</b>	_____							
<b>AE:</b> AE –Series	_____							
<b>Number of pole:</b>	_____							
<b>2:</b> 2-Pole	_____							
<b>4:</b> 4-Pole	_____							
<b>Coil code:</b>	_____							
<b>01:</b> 6V, <b>02:</b> 12V, <b>03:</b> 24V, <b>04:</b> 48V,	_____							
<b>05:</b> 110V, <b>07:</b> 220V	_____							
<b>Coil type:</b>	_____							
<b>A:</b> AC Coil	_____							
<b>D:</b> DC Coil	_____							
<b>Internal Connections:</b>	_____							
<b>None:</b> Standard relay (fig#1 AC & DC Coil)	_____							
<b>L:</b> With led (fig#2 DC Coil, fig#3 AC Coil)	_____							
<b>Z:</b> Coil parallel with diode IN4007 (fig#4 DC Coil only)	_____							
<b>X:</b> Coil parallel with diode IN4007 + LED (fig#5 DC Coil only)	_____							
<b>Touch button:</b>	_____							
<b>None:</b> Standard relay	_____							
<b>T:</b> Touch button	_____							
<b>European type:</b>	_____							
<b>None:</b> Standard type (Asian)	_____							
<b>U:</b> European type (Indicator, topside lockable test button)	_____							

**Curve graph of performance**
**AE – 2 P**

**AE – 4 P**

**Dimensions and wiring diagrams**
**AE – 2P :**

**AE – 4P :**
