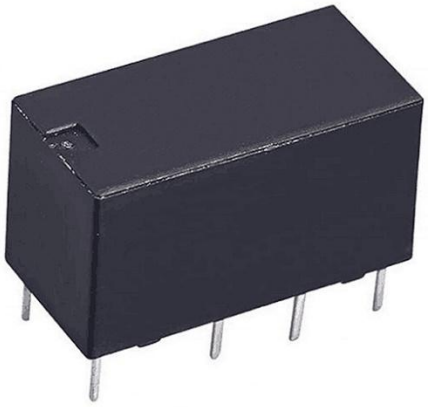
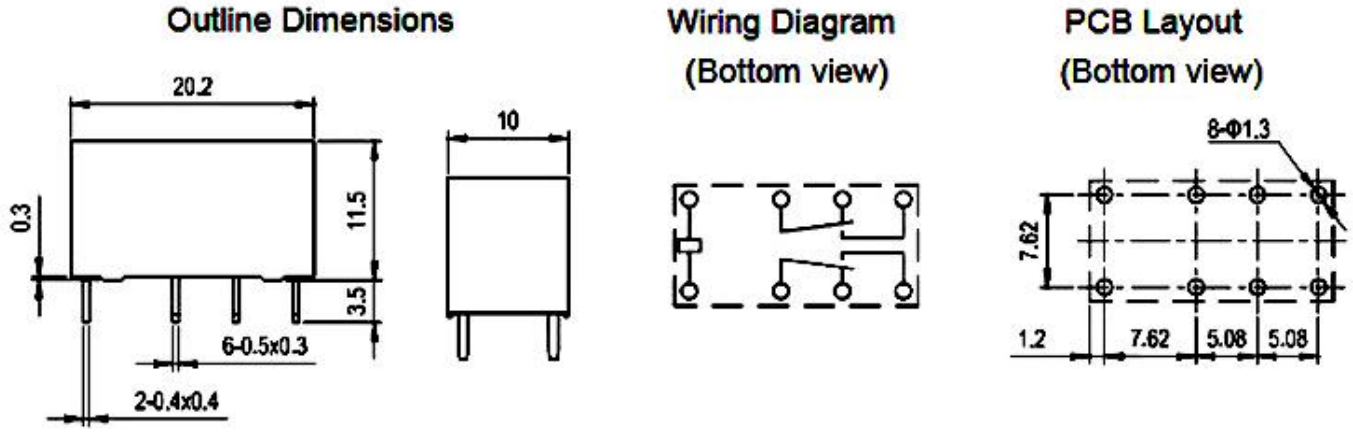
DPDT DC Signal Relay



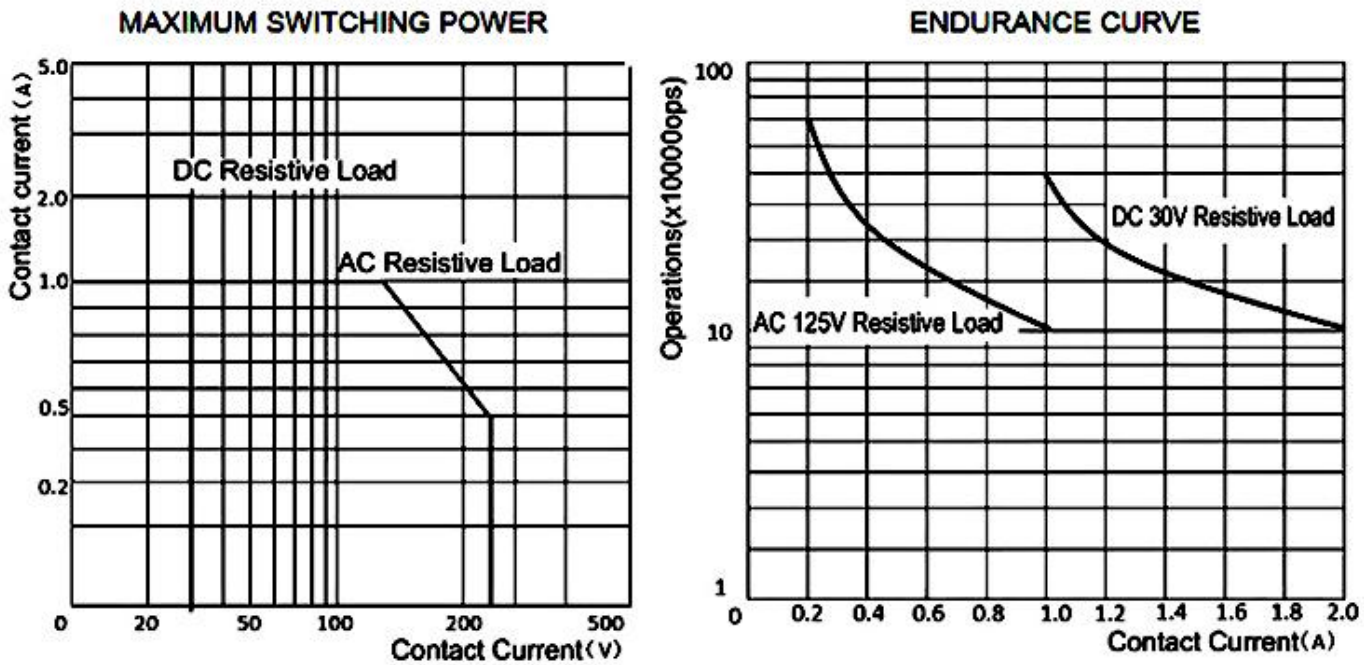
Features

- 2A contact switching capability.
- High sensitive type, coil power is 150mW/200mW.
- Standard DIP construction terminal.
- Ultra – small type, gold – plated contacts.
- Suit for complete machine wave soldering and integral cleaning process.
- Main applications: Electric power protection, automation, communication.

Dimension (Unit: mm)



Performance Curve



Specification

ATO-SR-FH32DC3V

Model			**ATO-SR-FH32DC3V**	
Type			Standard Type	Sensitive Type
Coil Parameters (23℃)	**Nominal Voltage**		DC 3V	
	Nominal Power		200mW	150mW
	Pick-up Voltage		≤2.25VDC	≤2.25VDC
	Drop-out Voltage		≥0.15VDC	≥0.15VDC
	Rated Current		66.7mA	50mA
	Coil Resistance		45Ω	60Ω
	Max Voltage		DC 3.9V	DC 3.9V
Contact Parameters	**Contact Form**		DPDT (2C)	
	Contact Resistance (Initial)		≤100mΩ (6VDC 1A)	
	Contact Material		AgNi + Gold Plating	
Rated Value	**Rated Load (Resistance Load)**		1A 125VAC	
			2A 30VDC	
	Max. Switching Voltage		250VAC30VDC	
	Max. Switching Current		2A	
	Max. Switching Capacity		125VA/60W	
	Min. Allowing Load		10mV 10μA	
Electrical Performance	**Insulation Resistance (Initial)**		1000mΩ (500VDC)	
	Dielectric Strength (Initial)	**Between Open Contacts**	750VAC, 1 min	
		Between Coil & Contacts	1500VAC, 1 min	
	Operate Time		≤5ms	
	Release Time		≤5ms	
Mechanical Performance	**Shock Resistance**	**Functional**	98m/s^2(10g)	
		Destructive	980m/s^2(100g)	
	Vibration Resistance		10Hz ~ 55Hz 1.5mm DA	
Endurance	**Mechanical**		1 x 10^{7}ops	
	Electrical		1A 125VAC 1 x 10^{5}ops (ON/OFF=1s/9s)	
			2A 30VDC 1 x 10^{5}ops (ON/OFF=1s/9s)	
Operate Condition	**Ambient Temperature**		-40℃ ~ 85℃	
	Humidity		5% to 90%	
Termination			PCB (DIP Encapsulation)	
Unit Weight			5g	
Construction			Plastic Sealed	

ATO-SR-FH32DC5V

Model			**ATO-SR-FH32DC5V**	
Type			Standard Type	Sensitive Type
Coil Parameters (23℃)	**Nominal Voltage**		DC 5V	
	Nominal Power		200mW	150mW
	Pick-up Voltage		≤3.75VDC	≤3.75VDC
	Drop-out Voltage		≥0.25VDC	≥0.25VDC
	Rated Current		40mA	30mA
	Coil Resistance		125Ω	166.7Ω
	Max Voltage		DC 6.5V	DC 6.5V
Contact Parameters	**Contact Form**		DPDT (2C)	
	Contact Resistance (Initial)		≤100mΩ (6VDC 1A)	
	Contact Material		AgNi + Gold Plating	
Rated Value	**Rated Load (Resistance Load)**		1A 125VAC	
			2A 30VDC	
	Max. Switching Voltage		250VAC30VDC	
	Max. Switching Current		2A	
	Max. Switching Capacity		125VA/60W	
	Min. Allowing Load		10mV 10μA	
Electrical Performance	**Insulation Resistance (Initial)**		1000mΩ (500VDC)	
	Dielectric Strength (Initial)	**Between Open Contacts**	750VAC, 1 min	
		Between Coil & Contacts	1500VAC, 1 min	
	Operate Time		≤5ms	
	Release Time		≤5ms	
Mechanical Performance	**Shock Resistance**	**Functional**	98m/s^2(10g)	
		Destructive	980m/s^2(100g)	
	Vibration Resistance		10Hz ~ 55Hz 1.5mm DA	
Endurance	**Mechanical**		1 x 10^{7}ops	
	Electrical		1A 125VAC 1 x 5ops (ON/OFF=1s/9s)	
			2A 30VDC 1 x 10^{5}ops (ON/OFF=1s/9s)	
Operate Condition	**Ambient Temperature**		-40℃ ~ 85℃	
	Humidity		5% to 90%	
Termination			PCB (DIP Encapsulation)	
Unit Weight			5g	
Construction			Plastic Sealed	

ATO-SR-FH32DC6V

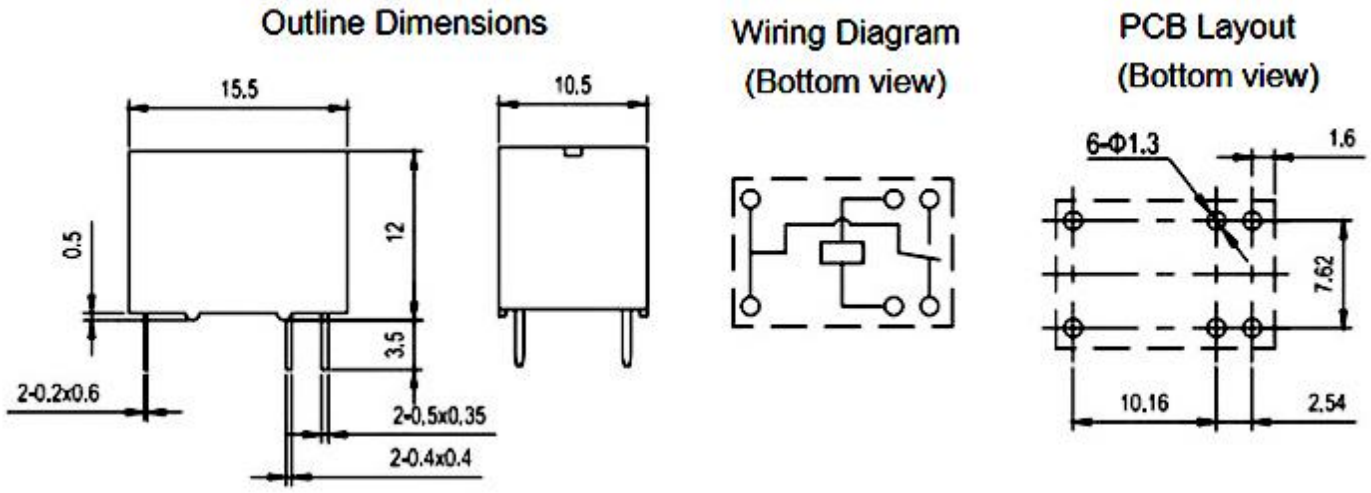
Model			**ATO-SR-FH32DC6V**	
Type			Standard Type	Sensitive Type
Coil Parameters (23℃)	**Nominal Voltage**		DC 6V	
	Nominal Power		200mW	150mW
	Pick-up Voltage		≤4.50VDC	≤3.75VDC
	Drop-out Voltage		≥0.30VDC	≥0.25VDC
	Rated Current		33.3mA	25mA
	Coil Resistance		180Ω	240Ω
	Max Voltage		DC 7.8V	DC 7.8V
Contact Parameters	**Contact Form**		DPDT (2C)	
	Contact Resistance (Initial)		≤100mΩ (6VDC 1A)	
	Contact Material		AgNi + Gold Plating	
Rated Value	**Rated Load (Resistance Load)**		1A 125VAC	
			2A 30VDC	
	Max. Switching Voltage		250VAC30VDC	
	Max. Switching Current		2A	
	Max. Switching Capacity		125VA/60W	
	Min. Allowing Load		10mV 10μA	
Electrical Performance	**Insulation Resistance (Initial)**		1000mΩ (500VDC)	
	Dielectric Strength (Initial)	**Between Open Contacts**	750VAC, 1 min	
		Between Coil & Contacts	1500VAC, 1 min	
	Operate Time		≤5ms	
	Release Time		≤5ms	
Mechanical Performance	**Shock Resistance**	**Functional**	98m/s^2(10g)	
		Destructive	980m/s^2(100g)	
	Vibration Resistance		10Hz ~ 55Hz 1.5mm DA	
Endurance	**Mechanical**		1 x 10^{7}ops	
	Electrical		1A 125VAC 1 x 10^{5}ops (ON/OFF=1s/9s)	
			2A 30VDC 1 x 10^{5}ops (ON/OFF=1s/9s)	
Operate Condition	**Ambient Temperature**		-40℃ ~ 85℃	
	Humidity		5% to 90%	
Termination			PCB (DIP Encapsulation)	
Unit Weight			5g	
Construction			Plastic Sealed	

Note: *In order to maintain the initial performance parameters of the signal relay, please be careful not to drop it.*

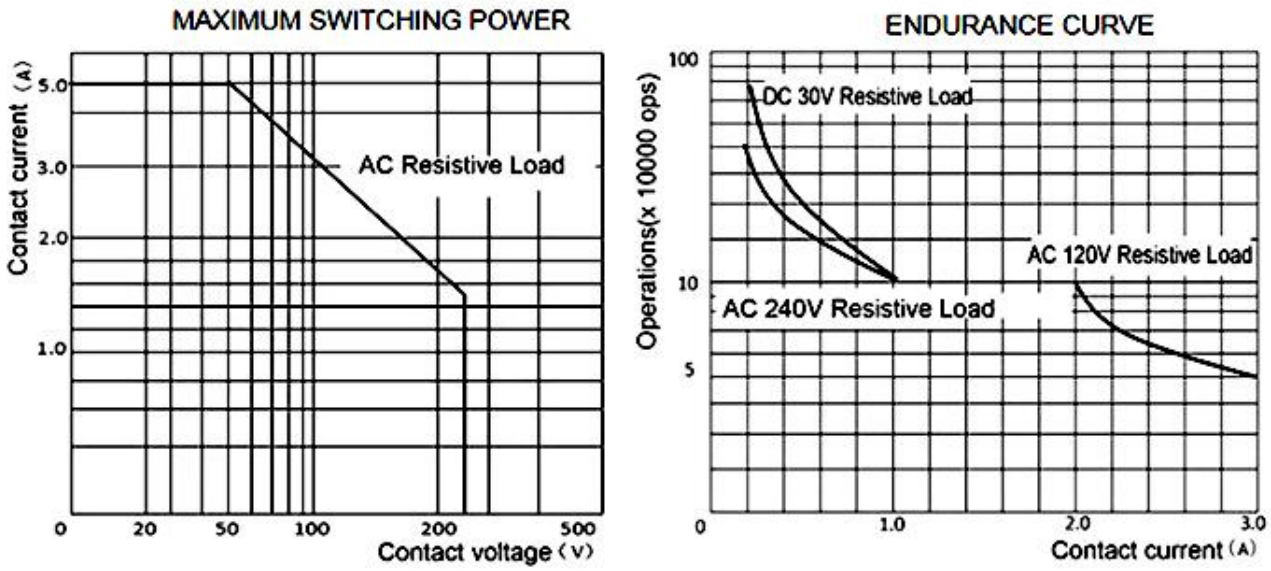
Features

- 3A contact switching capability.
- Contact form: SPDT (1C).
- High sensitive type, coil power is 200mW/360mW/450mW.
- Standard DIP construction terminal.
- Ultra – small type, gold – plated contacts.
- Suit for complete machine wave soldering and integral cleaning process.
- Main applications: Electric power protection, automation, communication.

Dimension (Unit: mm)



Performance Curve



Specification

ATO-SR-FH38DC9V

Model			ATO-SR-FH38DC9V		
Type			Standard Type	Sensitive Type	High Power Consumption Type
Coil Parameters (23℃)	Nominal Voltage		DC 9V		
	Nominal Power		360mW	200mW	450mW
	Pick-up Voltage		≤6.75VDC	≤6.75VDC	≤6.75VDC
	Drop-out Voltage		≥0.45VDC	≥0.45VDC	≥0.45VDC
	Rated Current		40mA	22.2mA	50mA
	Coil Resistance		225Ω	450Ω	180Ω
	Max Voltage		DC 11.7V	DC 11.7V	DC 11.7V
Contact Parameters	Contact Form		SPDT (1C)		
	Contact Resistance (Initial)		≤100mΩ (6VDC 0.1A)		
	Contact Material		AgNi + Gold Plating		
Rated Value	Rated Load (Resistance Load)		1A 240VAC/30VDC		
			3A 120VAC		
	Max. Switching Voltage		240VAC/30VDC		
	Max. Switching Current		5A		
	Max. Switching Capacity		360VA/30W		
	Min. Allowing Load		5VDC 100mA		
Electrical Performance	Insulation Resistance (Initial)		1000mΩ (500VDC)		
	Dielectric Strength (Initial)	Between Open Contacts	500VAC, 1 min		
		Between Coil & Contacts	1000VAC, 1 min		
	Operate Time		≤10ms		
	Release Time		≤5ms		
Mechanical Performance	Shock Resistance	Functional	98m/s^2(10g)		
		Destructive	980m/s^2(100g)		
	Vibration Resistance		10Hz ~ 55Hz 1.5mm DA		
Endurance	Mechanical		1 x 10^{7}ops		
	Electrical		1A 240VAC 1 x 10^{5}ops (ON/OFF=1s/9s)		
			3A 120VDC 5 x 10^{4}ops (ON/OFF=1s/9s)		
Operate Condition	Ambient Temperature		-25℃ ~ 70℃		
	Humidity		5% to 85%		
Termination			PCB (DIP Encapsulation)		
Unit Weight			5g		
Construction			Plastic Sealed, Flux Proofed		

ATO-SR-FH38DC12V

Model			**ATO-SR-FH38DC12V**		
Type			Standard Type	Sensitive Type	High Power Consumption Type
Coil Parameters (23℃)	**Nominal Voltage**		DC 12V		
	Nominal Power		360mW	200mW	450mW
	Pick-up Voltage		≤9VDC	≤9VDC	≤9VDC
	Drop-out Voltage		≥0.60VDC	≥0.60VDC	≥0.60VDC
	Rated Current		30mA	17.6mA	37.5mA
	Coil Resistance		400Ω	720Ω	320Ω
	Max Voltage		DC 15.6V	DC 15.6V	DC 15.6V
Contact Parameters	**Contact Form**		SPDT (1C)		
	Contact Resistance (Initial)		≤100mΩ (6VDC 0.1A)		
	Contact Material		AgNi + Gold Plating		
Rated Value	**Rated Load (Resistance Load)**		1A 240VAC/30VDC		
			3A 120VAC		
	Max. Switching Voltage		240VAC/30VDC		
	Max. Switching Current		5A		
	Max. Switching Capacity		360VA/30W		
	Min. Allowing Load		5VDC 100mA		
Electrical Performance	**Insulation Resistance (Initial)**		1000mΩ (500VDC)		
	Dielectric Strength (Initial)	**Between Open Contacts**	500VAC, 1 min		
		Between Coil & Contacts	1000VAC, 1 min		
	Operate Time		≤10ms		
	Release Time		≤5ms		
Mechanical Performance	**Shock Resistance**	**Functional**	98m/s^2(10g)		
		Destructive	980m/s^2(100g)		
	Vibration Resistance		10Hz ~ 55Hz 1.5mm DA		
Endurance	**Mechanical**		1 x 10^{7}ops		
	Electrical		1A 240VAC 1 x 10^{5}ops (ON/OFF=1s/9s)		
			3A 120VDC 5 x 10^{4}ops (ON/OFF=1s/9s)		
Operate Condition	**Ambient Temperature**		-25℃ ~ 70℃		
	Humidity		5% to 85%		
Termination			PCB (DIP Encapsulation)		
Unit Weight			5g		
Construction			Plastic Sealed, Flux Proofed		

ATO-SR-FH38DC24V

Model			**ATO-SR-FH38DC24V**		
Type			Standard Type	Sensitive Type	High Power Consumption Type
Coil Parameters (23℃)	**Nominal Voltage**		DC 24V		
	Nominal Power		360mW	200mW	450mW
	Pick-up Voltage		≤18VDC	≤18VDC	≤18VDC
	Drop-out Voltage		≥1.20VDC	≥1.20VDC	≥1.20VDC
	Rated Current		15mA	8.3mA	18.75mA
	Coil Resistance		1600Ω	2880Ω	1280Ω
	Max Voltage		DC 31.2V	DC 31.2V	DC 31.2V
Contact Parameters	**Contact Form**		SPDT (1C)		
	Contact Resistance (Initial)		≤100mΩ (6VDC 0.1A)		
	Contact Material		AgNi + Gold Plating		
Rated Value	**Rated Load (Resistance Load)**		1A 240VAC/30VDC		
			3A 120VAC		
	Max. Switching Voltage		240VAC/30VDC		
	Max. Switching Current		5A		
	Max. Switching Capacity		360VA/30W		
	Min. Allowing Load		5VDC 100mA		
Electrical Performance	**Insulation Resistance (Initial)**		1000mΩ (500VDC)		
	Dielectric Strength (Initial)	**Between Open Contacts**	500VAC, 1 min		
		Between Coil & Contacts	1000VAC, 1 min		
	Operate Time		≤10ms		
	Release Time		≤5ms		
Mechanical Performance	**Shock Resistance**	**Functional**	98m/s^2(10g)		
		Destructive	980m/s^2(100g)		
	Vibration Resistance		10Hz ~ 55Hz 1.5mm DA		
Endurance	**Mechanical**		1 x 10^{7}ops		
	Electrical		1A 240VAC 1 x 10^{5}ops (ON/OFF=1s/9s)		
			3A 120VDC 5 x 10^{4}ops (ON/OFF=1s/9s)		
Operate Condition	**Ambient Temperature**		-25℃ ~ 70℃		
	Humidity		5% to 85%		
Termination			PCB (DIP Encapsulation)		
Unit Weight			5g		
Construction			Plastic Sealed, Flux Proofed		

Note: *In order to maintain the initial performance parameters of the signal relay, please be careful not to drop it.*