



- 20A contact switching capability
- Highly sensitive product with coil power consumption of 250mW
- Products that comply with IEC60335-1, IEC60730-1, and IEC62368-1
- Medium withstand voltage between coil and contact up to 5KV
- Creepage distance and air distance  $\geq 15$ mm
- Available with a working temperature of 105 ° C
- UL insulation grade: Class F
- Environmentally friendly products (RoHS compliant)
- Dimensions: (28.8 × 12.5 × 15.9) mm
- Main uses: household appliances, smart home, industrial control

### Technical Data

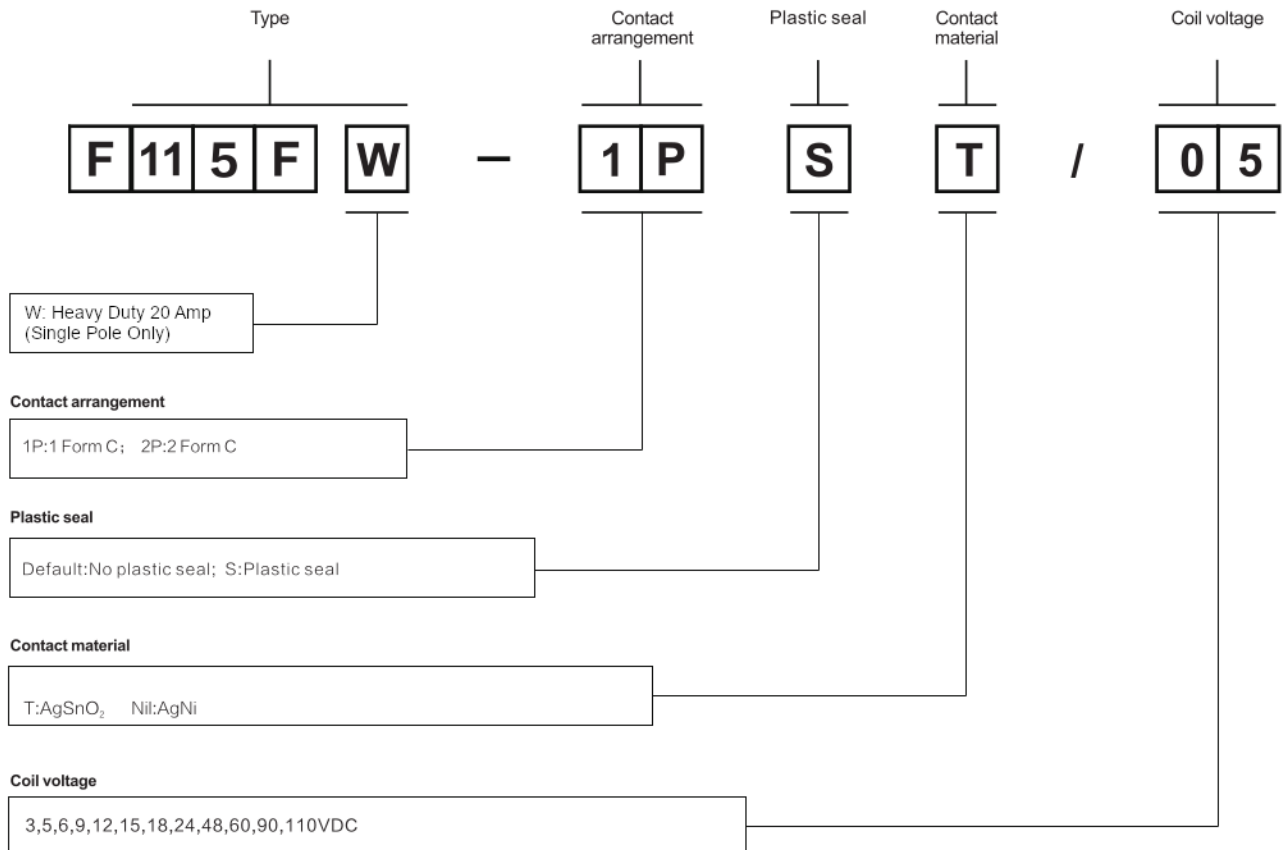
F

Mode	F115F-1P	F115FW-1P	F115F-2P
<b>Contact Data</b>			
Contact material	AgSnO <sub>2</sub>		AgNi, AgSnO <sub>2</sub>
Initial Contact resistance	100mΩ(6VDC 1A)		100mΩ(6VDC 1A)
<b>Specified Load</b>			
Control load (resistance)	12A 250VAC/30VDC	16A 250VAC/30VDC	8A 250VAC/30VDC
Maximum switching voltage	400 VAC/30VDC		277 VAC/30VDC
Maximum switching current	20A		12A
Maximum switching capacity	4000VA/480W		2000VA/240W
Minimum allowable load	5VDC 100mA		5VDC 100mA
<b>Electrical Performance</b>			
Insulation resistance	1000MΩ(500VDC)		1000MΩ(500VDC)
Dielectric withstand voltage(Disconnect the contacts)	1000VAC (1 min)		1000VAC (1 min)
Initial value(between the contact and the coil)	4000VAC (1 min)		5000VAC (1 min)
Action time	≤ 15ms		≤ 15ms
Release time	≤ 10ms		≤ 5ms
<b>Durability</b>			
mechanical	1 × 10 <sup>7</sup>		1 × 10 <sup>7</sup>
electric	20A 250VAC/30VDC 16A 250VAC/30VDC 5A 400VAC		8A 250VAC/30VDC
<b>Mechanical behavior</b>			
Impact stability	98m/s <sup>2</sup> (10g)		
Impact strength	980m/s <sup>2</sup> (100g)		
vibration	10Hz ~ 55Hz1.5mm		
<b>Conditions of Use</b>			
Ambient temperature	-40℃ ~ 85℃		
humidity	5%~90%		
Impact stability			
Impact strength	约12g		
vibration			

AC Coil Data(23°C)

Nominal Coil Voltage	VDC	VDC	Coil Current $\pm 10\%$	Coil Resistance $(\pm 10\%)$	Coil Dissipation	Maximum Voltage
DC 3V	$\leq 2.25$	$\geq 0.15$	133.3mA	22.5 $\Omega$	400mW	130% (Over Nominal)
DC 5V	$\leq 3.75$	$\geq 0.25$	80mA	62.6 $\Omega$		
DC 6V	$\leq 4.50$	$\geq 0.30$	66.7mA	90 $\Omega$		
DC 9V	$\leq 6.75$	$\geq 0.45$	44.4mA	202.5 $\Omega$		
DC 12V	$\leq 9.00$	$\geq 0.60$	33.3mA	360 $\Omega$		
DC 15V	$\leq 11.25$	$\geq 0.75$	26.7mA	562.5 $\Omega$		
DC 18V	$\leq 13.50$	$\geq 0.90$	22.2mA	810 $\Omega$		
DC 24V	$\leq 18.00$	$\geq 1.20$	16.7mA	1440 $\Omega$		
DC 48V	$\leq 36.00$	$\geq 2.40$	8.3mA	5760 $\Omega$		
DC 60V	$\leq 45$	$\geq 3$	6.67mA	9000 $\Omega$		
DC 90V	$\leq 67.5$	$\geq 4.5$	4.44mA	20250 $\Omega$		
DC 110V	$\leq 82.5$	$\geq 5.5$	3.64mA	30250 $\Omega$		

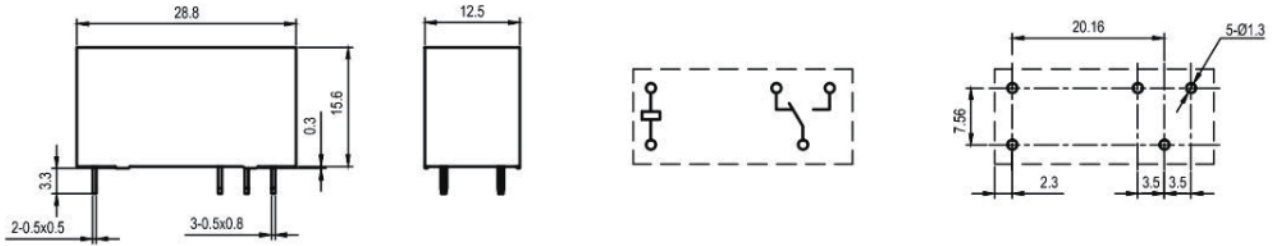
**Ordering Information**



Dimensions, wiring and installation dimensions (unit: mm)

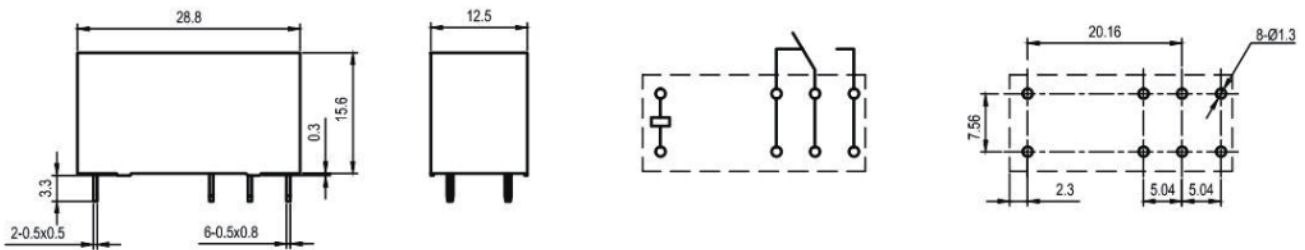
## F115F

1P



## F115FW

1P



## F115F

2P

