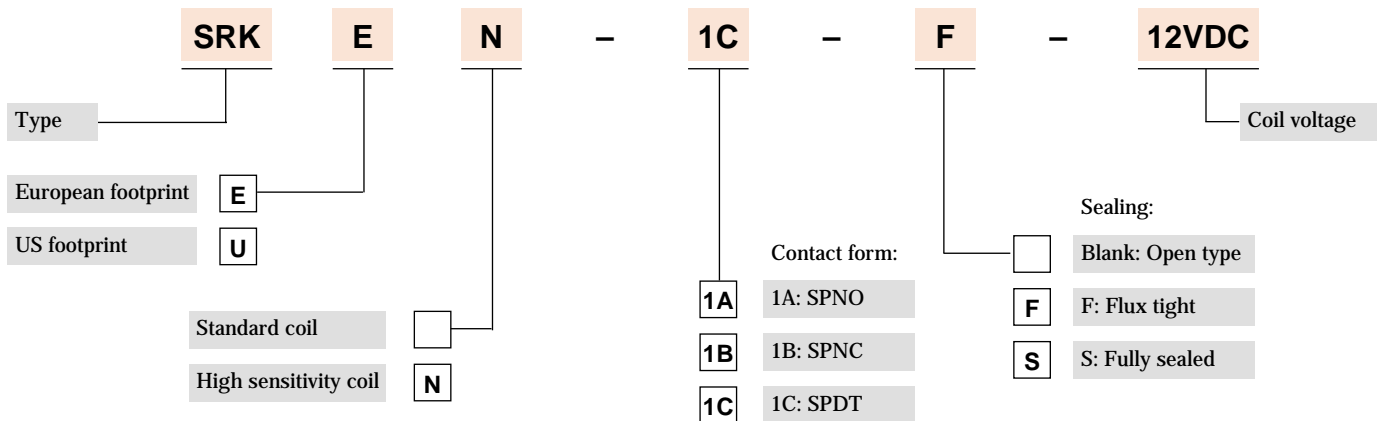# IMO Automotive Power Relay   SRK

- European and USA footprint available
- 40A/14VDC rating
- Open, flux tight or fully sealed versions
- Standard and high sensitivity coils

Options and ordering codes

SRK — **E** — **N** — **1C** — **F** — **12VDC**

- Type
- European footprint **E**
- US footprint **U**
- Standard coil
- High sensitivity coil **N**

Contact form:
- **1A** 1A: SPNO
- **1B** 1B: SPNC
- **1C** 1C: SPDT

Sealing:
- Blank: Open type
- **F** F: Flux tight
- **S** S: Fully sealed

Coil voltage

Contact rating

Contact form	1A (SPNO)	1B (SPNC)	1C SPDT)
Maximum switching power	560W	420W	NO: 560W NC: 280W
Maximum switching voltage	30VDC		
Maximum switching/carry current	40A	30A	NO: 40A NC: 20A

Specifications

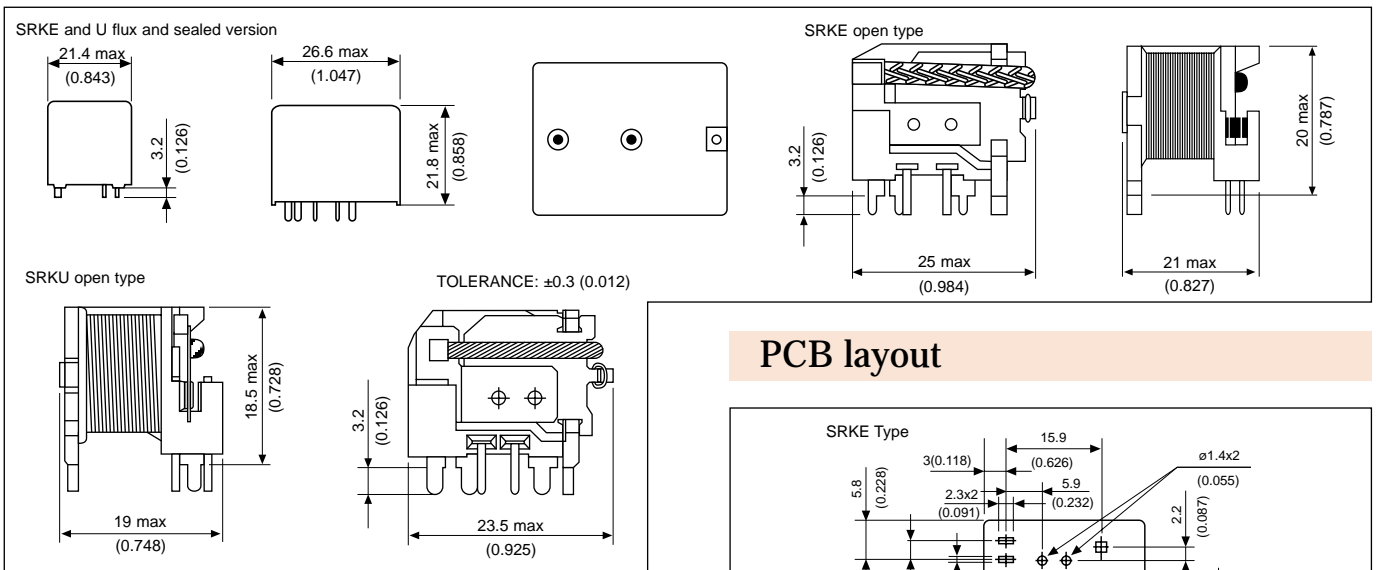|		
Contact material		AgSnInO
Initial contact resistance		50mΩ Max
Operate time		5ms Max (at rated voltage)
Release time		4ms Max (at rated voltage)
Nominal operating power		Approx. 1.6W, high sensitivity approx. 1.2W
Insulation resistance		50MΩ at 500VDC
Breakdown voltage	Between coil and contacts	500VAC (for 1 minute)
	Between open contacts	500VAC (for 1 minute)
Vibration resistance	Operating extremes	10~50Hz, amplitude 1.5mm
Shock resistance	Operating extremes	20G, 11ms, half sine wave
Ambient temperature		-40~+85˚C (storage -40~+130˚C)
Life expectancy	Mechanical	10×10^6 operations (frequency 18,000 operations/hour)
	Electrical (at max load)	1×10^5 operations (frequency 1,200 operations/hour)
Weight		17.5g

IMO

Coil specification SRK standard

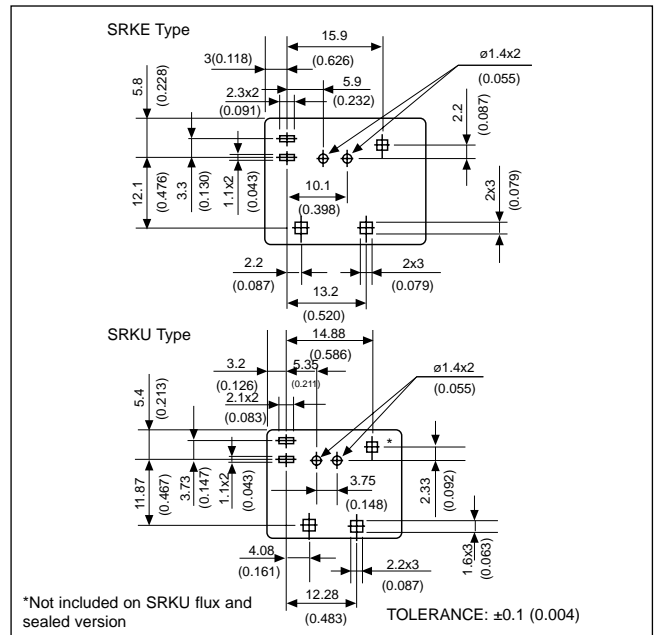| Rated voltage	Rated Current ± 10% at 25°C (mA)	Coil Resistance ± 10% at 25°C (Ω)	Max continuous voltage at 25°C	Pick up voltage (Max) at 25°C	Drop out voltage (Min) at 25°C	Power consumption at rated load
6	315	19	125% of rated voltage	3.3V	0.6V	Approx. 1.6W
12	133	90		6.8V	1.2V	
24	66	362		13.9V	2.4V	

Coil specification SRK high sensitivity

Rated voltage	Rated Current ± 10% at 25°C (mA)	Coil Resistance ± 10% at 25°C (Ω)	Max continuous voltage at 25°C	Pick up voltage (Max) at 25°C	Drop out voltage (Min) at 25°C	Power consumption at rated load
6	200	30	125% of rated voltage	75% of rated voltage	10% of rated voltage	Approx. 1.2W
12	100	120				
24	50	480				

Outline dimensions (mm)

SRKE and U flux and sealed version

21.4 max (0.843)
26.6 max (1.047)
21.8 max (0.858)
3.2 (0.126)

SRKE open type

3.2 (0.126)
25 max (0.984)
20 max (0.787)
21 max (0.827)

SRKU open type

18.5 max (0.728)
3.2 (0.126)
19 max (0.748)
23.5 max (0.925)

TOLERANCE: ±0.3 (0.012)

PCB layout

SRKE Type

15.9 (0.626)
3(0.118)
5.9 (0.232)
ø1.4x2 (0.055)
5.8 (0.228)
2.3x2 (0.091)
2.2 (0.087)
12.1 (0.476)
3.3 (0.130)
1.1x2 (0.043)
10.1 (0.398)
2x3 (0.079)
2.2 (0.087)
2x3 (0.079)
13.2 (0.520)

SRKU Type

14.88 (0.586)
3.2 (0.126)
5.35 (0.211)
ø1.4x2 (0.055)
5.4 (0.213)
2.1x2 (0.083)
11.87 (0.467)
3.73 (0.147)
1.1x2 (0.043)
3.75 (0.148)
2.33 (0.092)
4.08 (0.161)
2.2x3 (0.087)
1.6x3 (0.063)
12.28 (0.483)

*Not included on SRKU flux and sealed version

TOLERANCE: ±0.1 (0.004)

Wiring diagram

1C   1B   1A

*Not included on SRKU flux and sealed version

BOTTOM VIEW