



Features

- Miniature relay with high power: max. switching capability 40A.
- Low coil power consumption with excellent performance.
- Both sealed and open types available.
- Class H coil available.

Contact Capacity

Model	SARB-DM	SARB-D
Nominal switching capacity (res. load)	40A 14VDC	NO: 40A 14VDC NC: 30A 14VDC
Max. switching current	40A	40A
Max. switching voltage	30VDC	30VDC
Max. switching power	560W	560W

Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	50mΩ Max.	
Operate time (at nominal volt.)	6msec. Max.	
Release time (at nominal volt.)	3msec. Max.	
Initial insulation resistance	500MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC500V, 50/60Hz 1Min.	
	Between coil and contact: AC500V, 50/60Hz 1Min.	
Vibration resistance	Functional	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm
Shock resistance	Functional	20G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 10,800 ops./h)	10,000,000
	Electrical (at 600 ops./h)	100,000
Ambient temperature	-40°C ~ +125°C (no condensation)	
Unit weight	Open type: 16.0 g; Sealed type: 20.5 g	

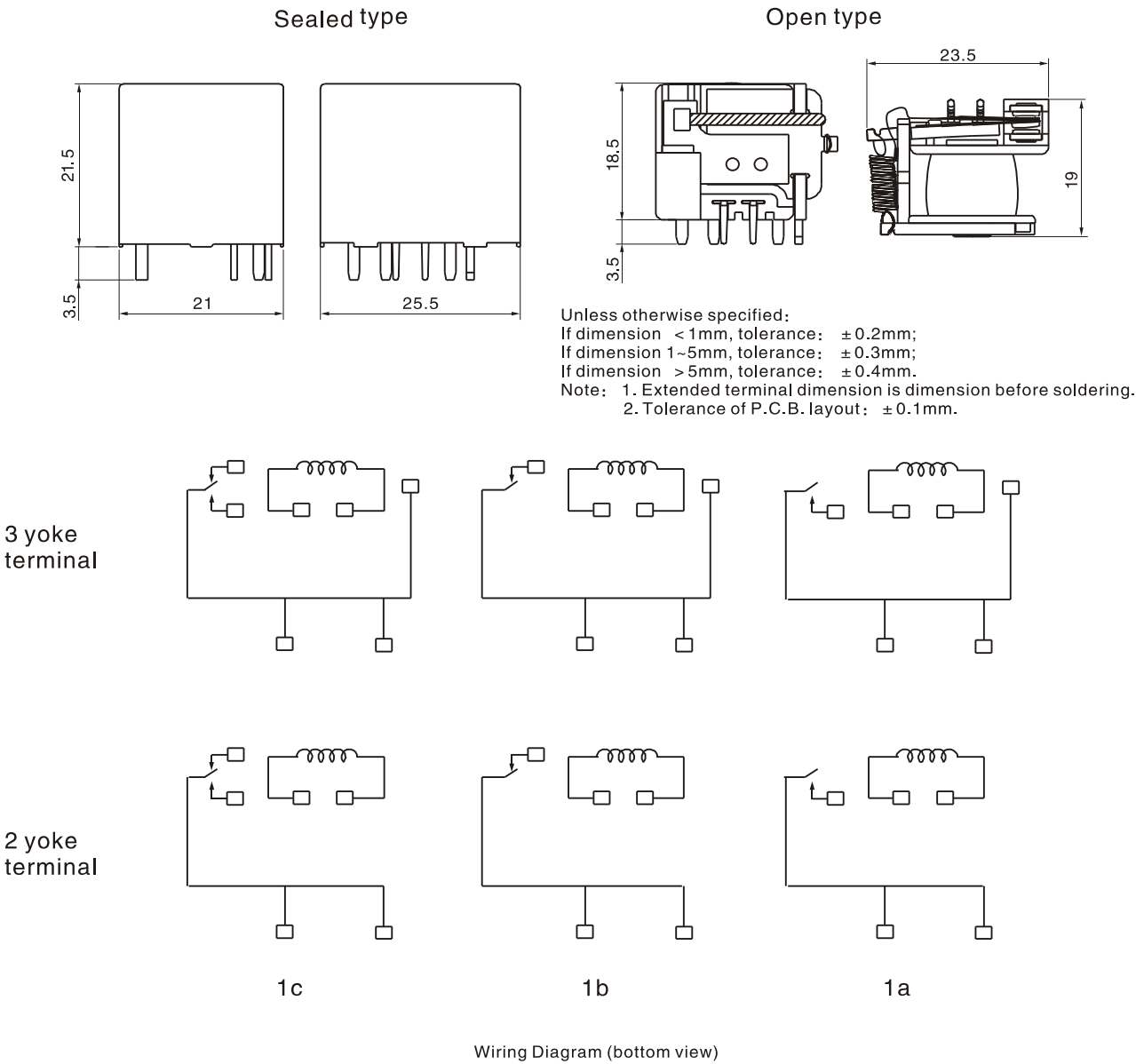
Coil Data (at 20°C)

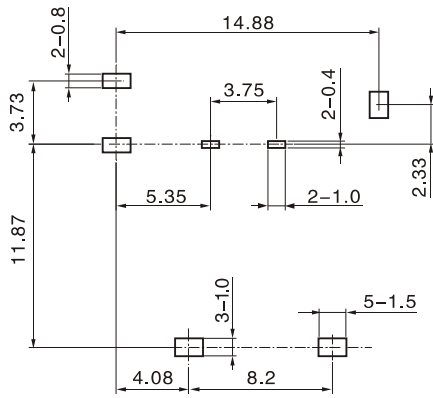
Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Max. allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
6	266.67	22.5	150 % of nominal voltage	60 % of nominal voltage	10% of nominal voltage	Approx. 1.60W
9	180.00	50				
12	133.33	90				
18	89.11	202				
24	66.67	360				
48	33.33	1,440				

Ordering Information

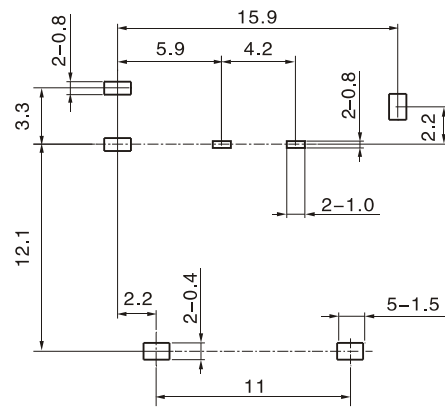
Nomenclature									
SARB	-S	-1	12	D	M	U	1	-XX	Special Parameter: Nil-Standard type, Letter or number-Special requirement
									Yoke Terminal Arrangement: Nil-3 yoke terminal, 1-2 yoke terminal
									Terminal Arrangement: U-USA, E-European
									Contact Form: Nil-Form C, B-Form B, M-Form A
									Coil Power: D-1.6W
									Coil Voltage (VDC): 06, 09, 12, 18, 24, 48
									Number of Poles: 1-1 Pole
									Protective Construction: Nil-Open type, S-Flux proofed, SH-Sealed type washable
									Type Designation: SARB

Outline Dimensions, Wiring Diagram, P.C. Board Layout (unit: mm)





SARB-U



SARB-E

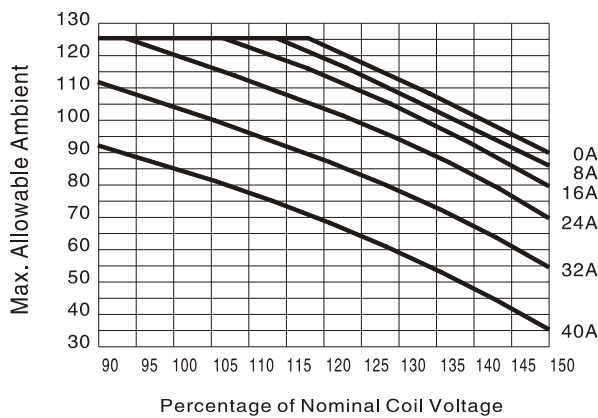
P.C.B. Layout (bottom view)

Typical Applications

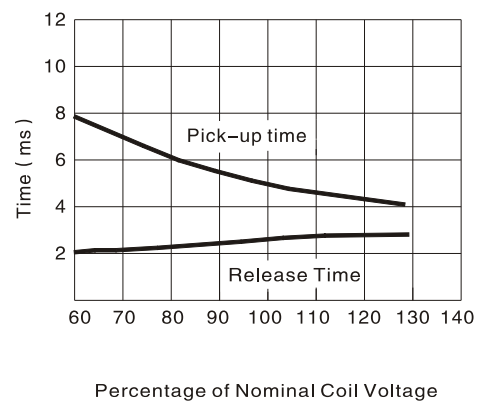
- Automotive control switching box, automation, etc.

Characteristic Curves

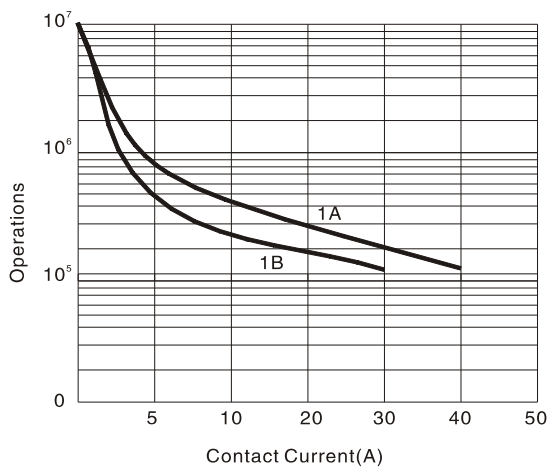
Ambient temperature vs coil voltage



Pick-up/release time



Endurance Curve



Anti-arc capability of N.O. Contacts with res. Load

