Miniature General Purpose Relays

7 RELAYS

VE RELAY

CONTACT DATA

Arrangement—1 Form A (SPST-NO)
or 1 Form C (SPDT)

Material & Rating

Type	Material	Contact Rating*	
		N.O.	N.C.
VE-( )H	Gold overlay silver-nickel alloy	5A	3A
VE-( )HE	Silver-nickel alloy		
VE-( )H5	Silver-cadmium oxide alloy	5A	5A

*250 VAC resistive

Resistance (Initial)— 70 mΩ. . . . . .VVE-( ) H
100 mΩ (6VDC.1A) . . . . . .VVE-( ) HE
200 mΩ (6VDC.1A) . . . . . .VVE-( ) H5

Life Expectancy—Mechanical: 10 million operations
Electrical: 100,000 operations

COIL DATA

Voltage—5 to 48 VDC

Power (at 20°C)—

	Standard	High Sensitive
Nominal Operate	0.36 W 0.18 W	0.25 W 0.13 W

Operate (at 20°C)—70% of nominal voltage

GENERAL DATA

Insulation Resistance—1000 MΩ min, at 500 VDC

Dielectric Strength—750 VAC (50/60 Hz) between open contact (N.C.),
1000 VAC (50/60 Hz) between open contact (N,O)
2000 VAC (50/60 Hz) between all other conductor

Surge Strength—4000 V or 6000 V

Temperature Range—Standard type −40°C ~ +85°C
High sensitive type −40°C ~ +90°C
} Non-carring condition of contacts

Time Value (at nominal voltage)—Operate Max. 10 ms
Release Max. 5 ms

Weight—Approx. 8 gr

Vibration Resistance*—10 ~ 55 Hz (Double amplitude of 3.3mm)
. . . . . .Destructive, Unerring

Shock Resistance*—50 G (11±1 ms) . . . . . .Destructive
(*Reference Value) 10 G (11±1 ms). . . . . .Unerring

Enclosure – PBT

Ordering Code	Nominal Voltage V DC	Coil Resistance Ω±10%	Must Operate Voltage VDC
Standard types			
VE-( ) H E-K VE-( ) H 5-K	5 6 9 12 14 18 24 48	69 100 225 400 544 900 1600 6400	Nominal Voltage ×70%
High Sensitive types			
VE-( ) H SE-K VE-( ) H S5-K	5 6 9 12 14 18 24 48	100 145 325 575 790 1300 2310 9220	Nominal Voltage ×70%

JS RELAY

L—1.142"
W—0.394"
H—0.492"

CONTACT DATA

Arrangement—1 form A or 1 form C
Material—Gold plate silver alloy
Resistance—Max. 30 mΩ (at 1A 6 VDC)
Rating—8A 250 VAC/24 VDC (Resistive)
Max. Switching Power—2,000 VA/192 W
Max. Switching Voltage—250 VAC/150 VDC
Max. Switching Current—8A
Max. Carrying Current—10A
Life Expectancy—Mechanical: 5 x 10^6
Electrical: 1 x 10^5 (Rated load)

COIL DATA

Nominal Voltage—5 ~ 60 VDC
Power (at 20°C)—Nominal: 220 ~ 280 mW
Operate: 110 ~ 140 mW
Operate & Release Voltage (at 20°C)—See back side
Max. Continuous Voltage (at 20°C)—Nominal Voltage x 225%

GENERAL DATA

Insulation Resistance—1.000 MΩ (at 500 VDC)
Dielectric Strength—1000 VAC (open contacts)
5000 VAC (coil and contacts)
Surge Strength—10kV (at 1.2 x 50μs Surge wave)
Temperature Range— −40°C ~ +85°C
Time Value (at Nominal Voltage)—Operate: Max. 10 ms
Release: Max. 5ms

Vibration Resistance—
Misoperation: 10 ~ 55 Hz at double amplitude 1.65 mm
Endurance: 10 ~ 55 Hz at double amplitude 3.3 mm
Shock Resistance—Misoperation: 100 m/s² (11=¹ms)
Endurance: 1000 m/s² (6=¹ms)

Weight—Approx. 5g
Enclosure—PBT

Ordering Code	Nominal Coil Voltage (VDC)	Coil Resistance (Ω ±10% at 20°C)	Must Operate Voltage 20°C (VDC)	Must Release Voltage (VDC at 20°C)
JS - 5 E - K	5	112	3.5	0.5
JS - 6 E - K	6	160	4.2	0.6
JS - 12 E - K	12	660	8.5	1.2
JS - 18 E - K	18	1,455	12.7	1.8
JS - 24 E - K	24	2,350	16.8	2.4
JS - 48 E - K	48	8,000	33.4	4.8

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