



NVF28

22.5×15×25.0

| Features |
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| <ul style="list-style-type: none"> 40A continuous rating at 85°C. 2.8mm quick connect terminals. Contact arrangement form A and C available. Suitable for automobile fuel pump, A/C compressor clutch, horn and lighting system etc. |

| Ordering Information | | | | | | |
|----------------------|-----------------------------------|-----------|--|------------|---|----------|
| NVF28 | A | 40 | DC6V | 1.3 | C | R |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 Part number: NVF28 | 2 Contact arrangement: A:1A; C:1C | | 3 Contact Current: 20:20A;25:25A; 35:35A;40A:40A | | 4 Coil rated voltage(V): DC:6,12,24 | |
| | | | | | 5 Coil power consumption: 0.9:0.9W; 1.3:1.3W | |
| | | | | | 6 Contact material: NIL: AgSnO ₂ ; C:AgCdO | |
| | | | | | 7 Coil transient suppression: NIL: Standard; R:with resistance; D:whith diode | |

| Contact Data | | | |
|----------------------------|------------------------------|---------------------|--------------------------|
| Contact Arrangement | 1A (1H) (SPSTNO) | 1C (1Z) (SPDT(B-M)) | |
| Contact material | AgSnO ₂ , AgCdO | | |
| Contact Rating (resistive) | 25A,35A,40A/14VDC; 20A/27VDC | | |
| Max. Switching Power | 560W | | |
| Max. Switching voltage | 75VDC | | |
| Max. Switching Current | 40A | | |
| Max. Continuous Current | NO:40A, NC:35A | | |
| Contact Voltage drop | 100mΩ (1A 6VDC) | | Item 4.12 of IEC 61810-7 |
| | ≤250mV(10A) example:50mV | | |
| Operation life | Electrical | 1×10 ⁵ | Item 4.30 of IEC 61810-7 |
| | Mechanical | 1×10 ⁷ | Item 4.31 of IEC 61810-7 |

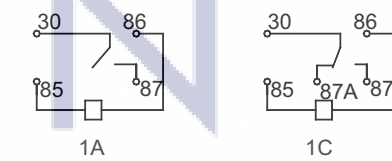
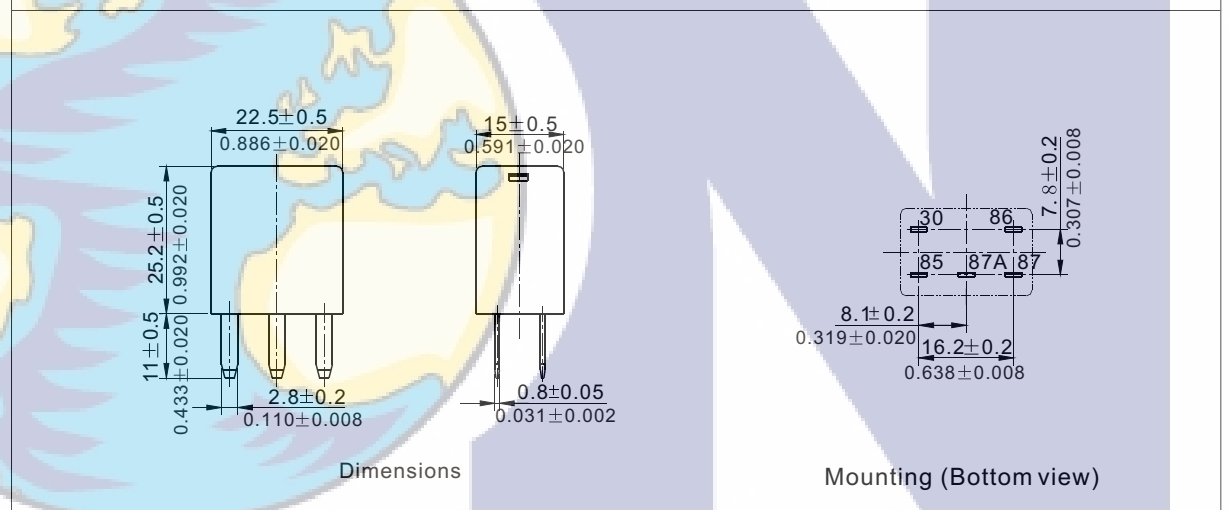
| Coil Parameter | | | | | | | | |
|----------------|------------------|------|------------------------|---|---|--------------------------|-----------------|-----------------|
| Dash numbers | Coil voltage VDC | | Coil resistance Ω ±10% | Pick up voltage VDC(max) (60% of rated voltage) | Release voltage VDC(min) (10% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
| | Rated | Max. | | | | | | |
| 006-090 | 6 | 7.8 | 40 | 3.6 | 0.6 | 0.9 | ≤5 | ≤2 |
| 012-090 | 12 | 15.6 | 160 | 7.2 | 1.2 | | | |
| 024-090 | 24 | 31.2 | 640 | 14.4 | 2.4 | | | |
| 006-130 | 6 | 7.8 | 27 | 3.6 | 0.6 | 1.3 | | |
| 012-130 | 12 | 15.6 | 109 | 7.2 | 1.2 | | | |
| 024-130 | 24 | 31.2 | 436 | 14.4 | 2.4 | | | |

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

| | | |
|--------------------------|--|-----------------------|
| Insulation Resistance | 100MΩ min. (500VDC) | Item 7 of IEC 60255-5 |
| Dielectric Strength | | |
| Between contacts | 50Hz 500V | Item 6 of IEC 60255-5 |
| Between contact and coil | 50Hz 500V | Item 6 of IEC 60255-5 |
| Shock Resistance | 200m/s ² 11ms | IEC 68-2-27 test Ea |
| Vibration Resistance | 10Hz~40Hz double amplitude 1.27mm 40Hz~70Hz 49m/s ² 70Hz~100Hz double amplitude 0.5mm 100Hz~500Hz 98m/s ² | IEC 68-2-6 test Fc |
| Terminals strength | 10N | IEC 68-2-21 test Ua 1 |
| Ambient Temperature | -40°C~125°C | |
| Relative Humidity | 85% (20°C) | IEC 68-2-3 test Ca |
| Mass | 21g | |

Dimensions



Wiring diagram (Bottom view)

NOTES 1).Dimensions are in millimeters.
2).Inch equivalents are given for general information only.