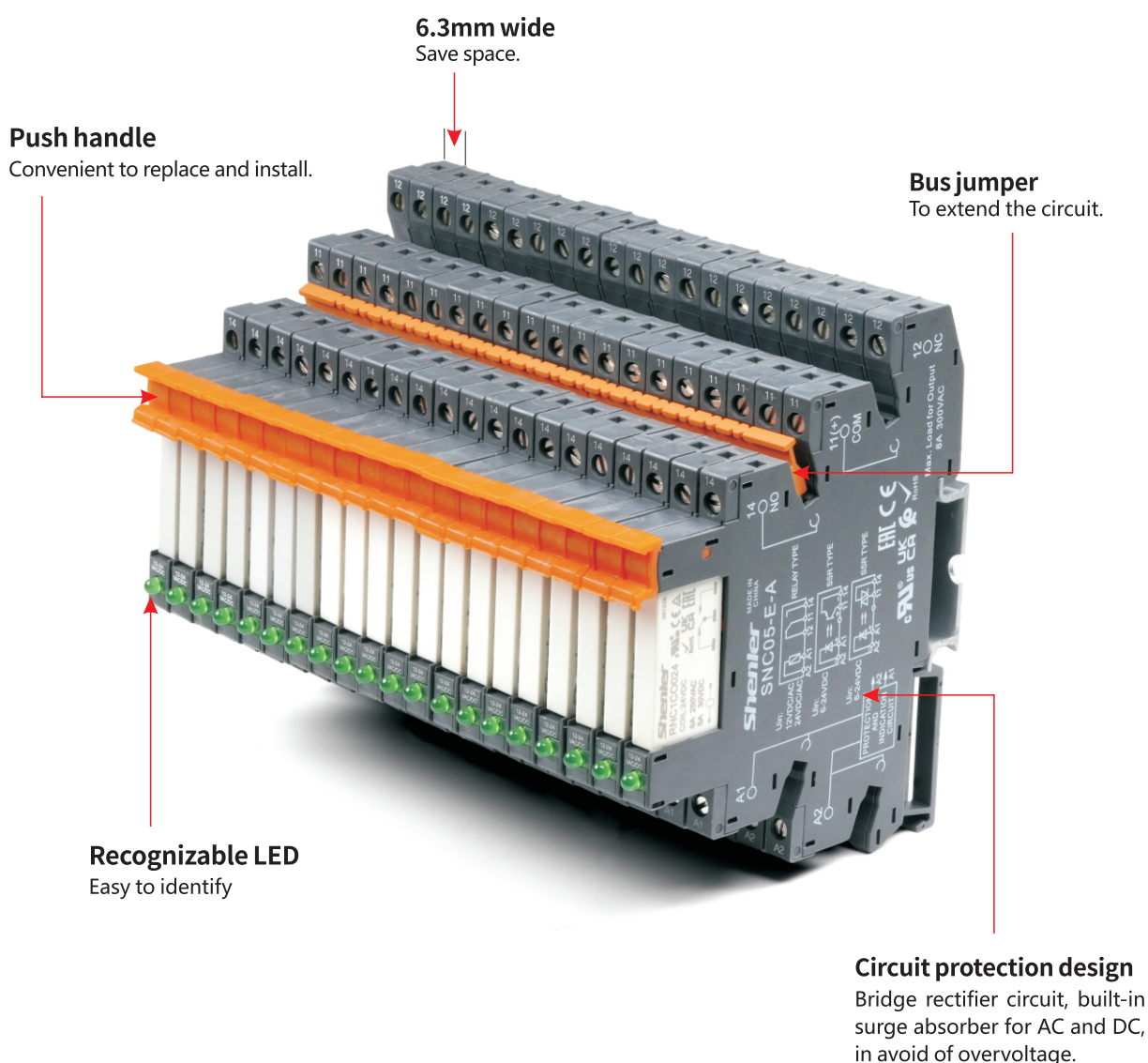


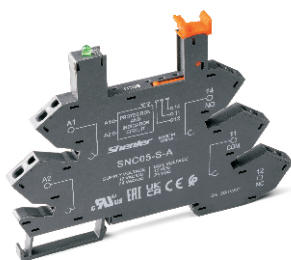
- Ultra-slim, high sensitivity and low consumption, the maximum load power 6A.
- Reasonable structure, meets environmental protection requirements, the control voltage range can be extended with matching sockets.
- Shenler industrial relays are widely used in the output signal and safety drive of PLC, CNC system, robot, intelligent manufacturing and other control systems. It is the ideal choice to realize remote control, production and processing, packaging, transportation, testing, storage and other equipment and automatic assembly lines.





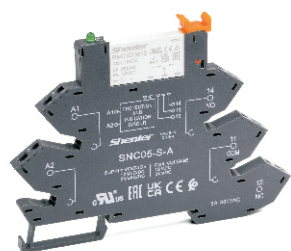
Relay

+

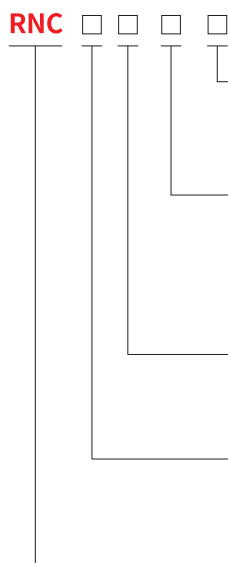


Socket

=



Relay module



**Other options**

Blank: Conventional  
A: Gold plated contact

**Coil voltage code**

|                |     |     |     |     |
|----------------|-----|-----|-----|-----|
| Code           | 005 | 006 | 012 | 024 |
| Voltage (V DC) | 5   | 6   | 12  | 24  |
| Code           | 048 | 060 |     |     |
| Voltage (V DC) | 48  | 60  |     |     |

**Terminal arrangement**

O: Vertical pin  
P: Horizontal pin

**Contact form**

1A: (NO)  
1C: (CO)

**Series name**

**Characteristics**

|         |                                                                     |                                                                                                                          |
|---------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Contact | Configuration                                                       | 1A,1C                                                                                                                    |
|         | Load Resistance                                                     | 6A/250VAC 30VDC                                                                                                          |
|         | Max. switching capacity (resistive)                                 | 1500VA,180W                                                                                                              |
|         | Min. switching capacity                                             | 170mW(17V/10mA)                                                                                                          |
|         | Initial contact resistance                                          | ≤100mΩ (gold plated contact ≤ 30mΩ)                                                                                      |
|         | Material                                                            | Ag alloy                                                                                                                 |
|         | Electrical durability (normal temperature)(frequency 1s on, 5s off) | NO: 6x10 <sup>4</sup> Cycles (600 Ops/h);<br>NC: 3x10 <sup>4</sup> Cycles (600 Ops/h)                                    |
|         | Mechanical durability                                               | ≥2x10 <sup>7</sup> Cycles (18000 Ops/h)                                                                                  |
|         | Pick-up voltage (23°C) (Rated voltage)                              | DC:≤75%                                                                                                                  |
|         | Drop-out voltage (23°C) (Rated voltage)                             | DC:≥5%                                                                                                                   |
|         | Maximum voltage (23°C) (Rated voltage)                              | 110%                                                                                                                     |
|         | Insulation resistance                                               | ≥500MΩ (500VDC)                                                                                                          |
|         | Coil operating power                                                | 3~24 VDC(W) approx. 0.17W<br>48~60 VDC(W) approx. 0.21W                                                                  |
|         | Operate time (at nominal voltage)                                   | ≤8ms                                                                                                                     |
|         | Release time (at nominal voltage)                                   | ≤4ms                                                                                                                     |
|         | Initial breakdown voltage                                           | Between open contacts 1000VAC/1min (leakage current 1mA)<br>Between contacts and coil 4000VAC/1min (leakage current 1mA) |
|         | Insulation characteristics                                          | Rated voltage 250VAC<br>Pollution level 3                                                                                |
|         | IEC 60664 UL840                                                     | Overvoltage level III                                                                                                    |
|         | Impulse withstand voltage (waveform: 1.2/50μs )                     | 4000V                                                                                                                    |
|         | Protection level                                                    | IP20                                                                                                                     |
|         | Storage temperature/ humidity                                       | -55~+85°C/ ≤85%RH (18 months)                                                                                            |
|         | Working temperature/ humidity                                       | -40~+85°C/ 5%~85%RH (No condensation)                                                                                    |
|         | Air pressure                                                        | 86~106KPa                                                                                                                |
|         | Shock resistance                                                    | 10G (half-sine shock pulse: 11ms)                                                                                        |
|         | Vibration resistance                                                | 10~55Hz double-amplitude:1.0mm                                                                                           |
|         | Mounting                                                            | PCB                                                                                                                      |
|         | Unit weight                                                         | approx. 6g                                                                                                               |

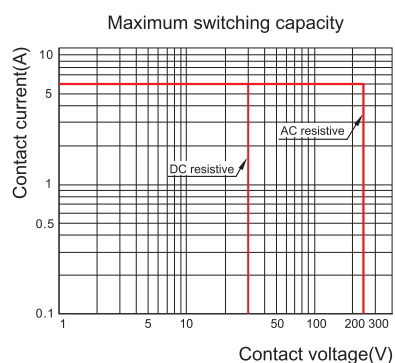
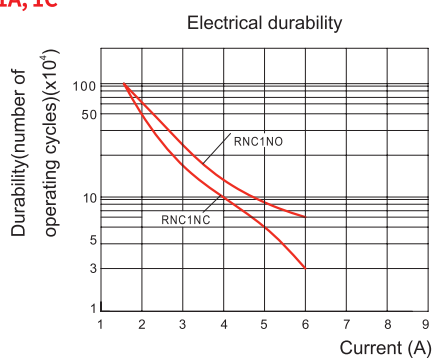
### Coil Specifications (23°C)

|                              |       |       |     |      |
|------------------------------|-------|-------|-----|------|
| Nominal voltage V.DC (0.17W) | 5     | 6     | 12  | 24   |
| Coil resistance $\Omega$     | 147   | 212   | 847 | 3250 |
| Nominal voltage V.DC (0.21W) | 48    | 60    |     |      |
| Coil resistance $\Omega$     | 10971 | 17143 |     |      |

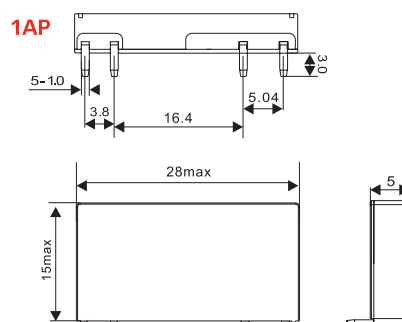
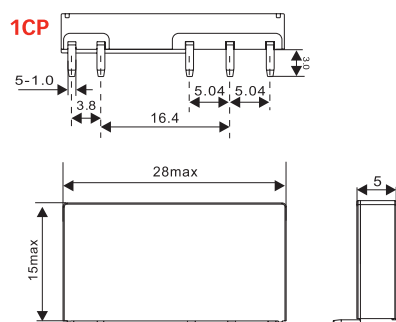
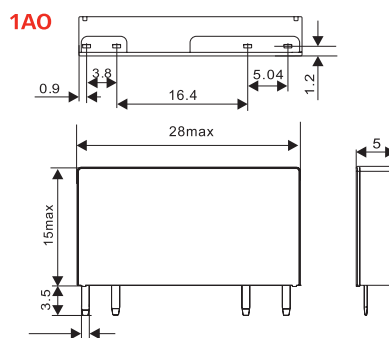
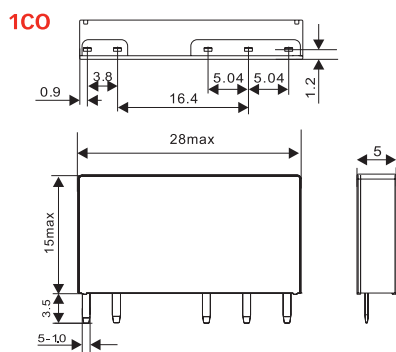
Coil resistance: under coil voltage 110V are measured with tolerance of  $\pm 10\%$ .

### Contact Specification

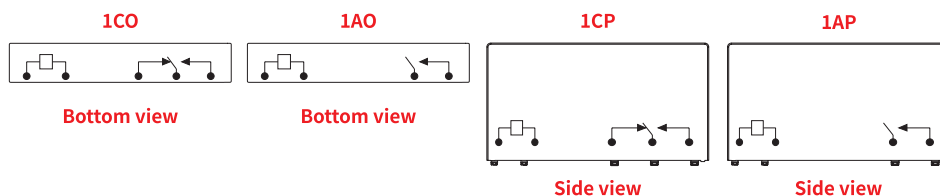
#### RNC1A, 1C



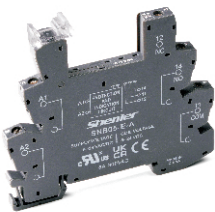
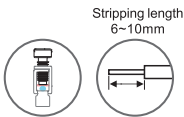
### Dimensions (mm)



### Wiring Diagrams



**Characteristics**



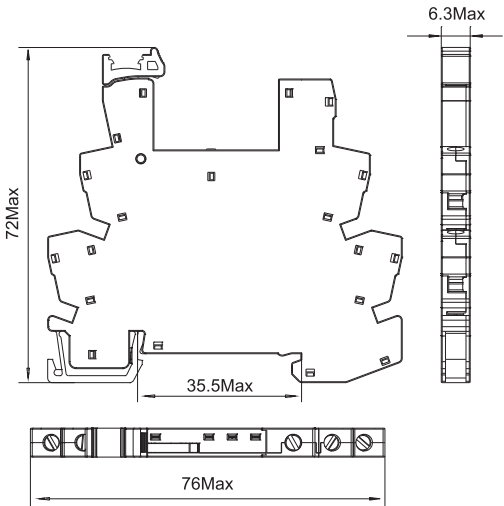
**SNB05-E**

| Model No.  | Input   | Relay   |
|------------|---------|---------|
| SNB05-E-AR | 6~24VDC | 6~24VDC |
| SNB05-E-A  | 6~24V   | 6~24VDC |
| SNB05-E-B  | 48V     | 24VDC   |
| SNB05-E-C  | 110V    | 60VDC   |
| SNB05-E-D  | 230V    | 60VDC   |
| SNB05-E-DA | 230V    | 60VDC   |

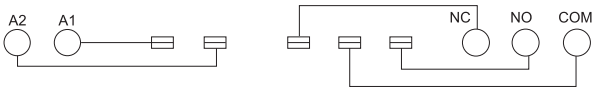
| Characteristics        |                          |                     |               |
|------------------------|--------------------------|---------------------|---------------|
| Nominal load           | Current                  | A                   | 8             |
|                        | Voltage                  | V                   | 300           |
| Dielectric strength    | Between coil and contact | V/min               | 4000          |
|                        | Between contacts         | V/min               | 2000          |
| Max. tightening torque |                          | Nm                  | 0.5           |
| Wire size              |                          | AWG/mm <sup>2</sup> | 20-16/0.5-1.5 |
| Ambient temperature    |                          | °C                  | -40~+85       |
| Unit weight            |                          | g                   | 19,5          |

| Accessories                                                                        |                                                                                      |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Bus jumper                                                                         | ID tag                                                                               |
|  |  |
| SN20A                                                                              | SN64P                                                                                |

**Dimensions (mm)**



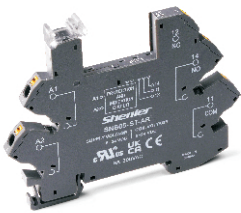
**Connection Diagrams**





Characteristics

| Model No.   | Input   | Relay   |
|-------------|---------|---------|
| SNB05-ST-AR | 6~24VDC | 6~24VDC |
| SNB05-ST-A  | 6~24V   | 6~24VDC |
| SNB05-ST-B  | 48V     | 24VDC   |
| SNB05-ST-C  | 110V    | 60VDC   |
| SNB05-ST-D  | 230V    | 60VDC   |
| SNB05-ST-DA | 230V    | 60VDC   |

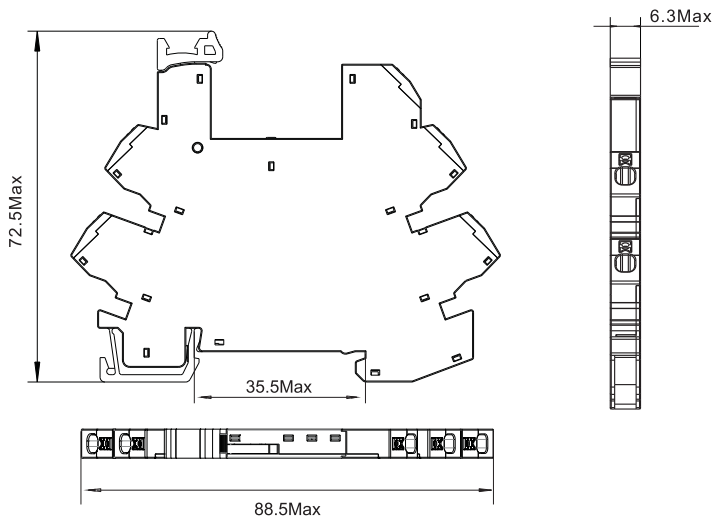


SNB05-ST

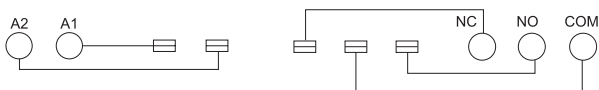
| Characteristics     |                                   |         |      |
|---------------------|-----------------------------------|---------|------|
| Nominal load        | Current                           | A       | 8    |
|                     | Voltage                           | V       | 300  |
| Dielectric strength | Between coil and contact          | V/min   | 4000 |
|                     | Between contacts                  | V/min   | 2000 |
| Wire size           | AWG/mm <sup>2</sup> 20-16/0.5-1.5 |         |      |
| Ambient temperature | °C                                | -40~+85 |      |
| Unit weight         | g                                 | 19.5    |      |

| Accessories                                                                                 |                                                                                               |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Bus jumper                                                                                  | ID tag                                                                                        |
| <br>SN20A | <br>SN64P |

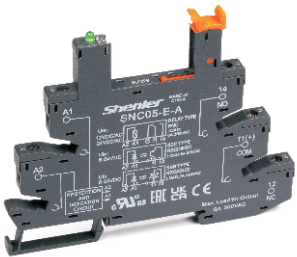
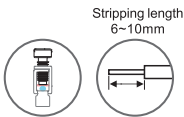
Dimensions (mm)



Connection Diagrams



**Characteristics**



**SNC05-E**

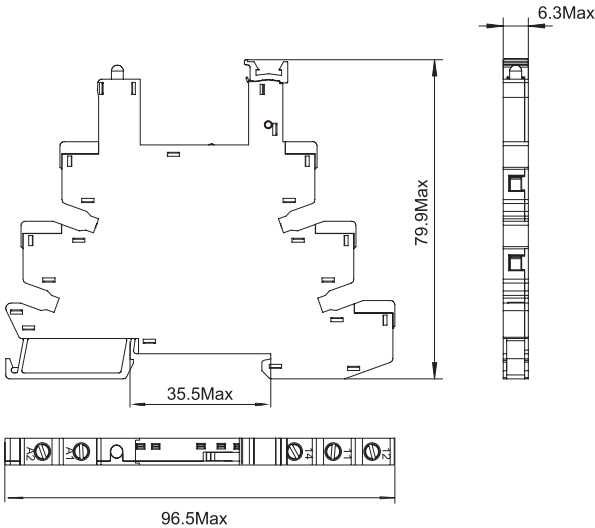
| Model No.  | Input    | Relay    |
|------------|----------|----------|
| SNC05-E-A  | 12~24V   | 12~24VDC |
| SNC05-E-B  | 48~60V   | 48~60VDC |
| SNC05-E-C  | 110V     | 60VDC    |
| SNC05-E-DL | 230V     | 60VDC    |
| SNC05-E-AR | 12~24VDC | 12~24VDC |

| Characteristics        |                          |                     |               |
|------------------------|--------------------------|---------------------|---------------|
| Nominal load           | Current                  | A                   | 8             |
|                        | Voltage                  | V                   | 300           |
| Dielectric strength    | Between coil and contact | V/min               | 4000          |
|                        | Between contacts         | V/min               | 2000          |
| Max. tightening torque |                          | Nm                  | 0.5           |
| Wire size              |                          | AWG/mm <sup>2</sup> | 20-16/0.5-1.5 |
| Ambient temperature    |                          | °C                  | -40~+85       |
| Unit weight            |                          | g                   | 24            |

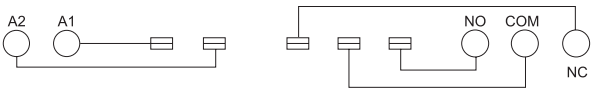
| Accessories                                                                        |                                                                                      |                                                                                     |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Bus jumper                                                                         | ID tag                                                                               | Partition plate                                                                     |
|  |  |  |
| SN20B                                                                              | SN64P                                                                                | SN20S                                                                               |

\*SNC05-E-DR optional, anti-interference function.

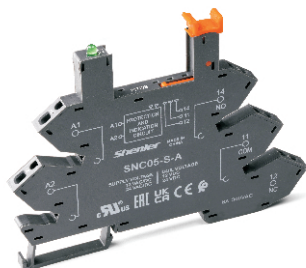
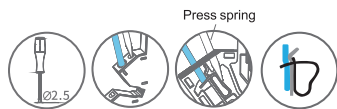
**Dimensions (mm)**



**Connection Diagrams**



**Characteristics**



**SNC05-S**

| Model No.  | Input  | Relay    |
|------------|--------|----------|
| SNC05-S-A  | 12~24V | 12~24VDC |
| SNC05-S-B  | 48~60V | 48~60VDC |
| SNC05-S-C  | 110V   | 60VDC    |
| SNC05-S-DL | 230V   | 60VDC    |

**Characteristics**

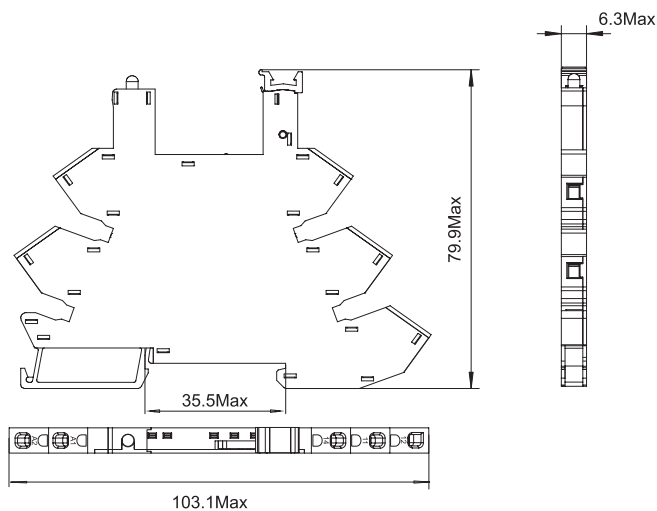
|                     |                          |                     |               |
|---------------------|--------------------------|---------------------|---------------|
| Nominal load        | Current                  | A                   | 8             |
|                     | Voltage                  | V                   | 300           |
| Dielectric strength | Between coil and contact | V/min               | 4000          |
|                     | Between contacts         | V/min               | 2000          |
| Wire size           |                          | AWG/mm <sup>2</sup> | 20-16/0.5-1.5 |
| Ambient temperature |                          | °C                  | -40~+85       |
| Unit weight         |                          | g                   | 25            |

**Accessories**

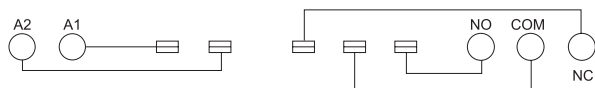
| Bus jumper                                                                        | ID tag                                                                              | Partition plate                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| SN20B                                                                             | SN64P                                                                               | SN20S                                                                               |

\*SNC05-S-DR optional, anti-interference function.

**Dimensions (mm)**



**Connection Diagrams**



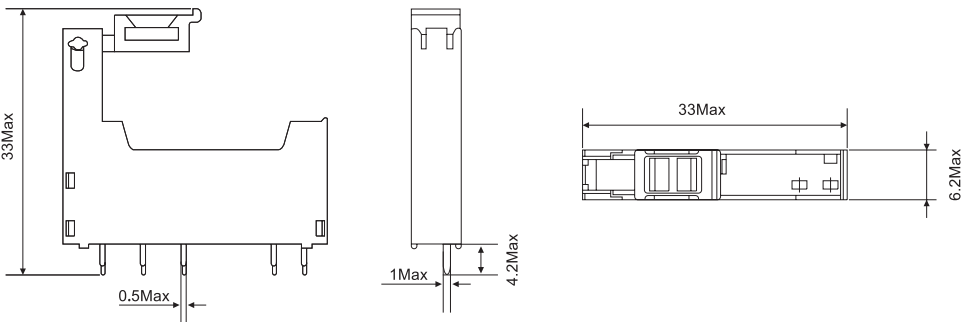
**Characteristics**



**SNC05-P**

|                     |                          |                     |               |
|---------------------|--------------------------|---------------------|---------------|
| Nominal load        | Current                  | A                   | 8             |
|                     | Voltage                  | V                   | 300           |
| Dielectric strength | Between coil and contact | V/min               | 4000          |
|                     | Between contacts         | V/min               | 2500          |
| Wire size           |                          | AWG/mm <sup>2</sup> | 20-16/0.5-1.5 |
| Ambient temperature |                          | °C                  | -40~+85       |
| Unit weight         |                          | g                   | 2.6           |

**Dimensions (mm)**



**Connection Diagrams**

