HTS RESIDENTIAL AUTOMATIC TRANSFER SWITCH OPERATION MANUAL

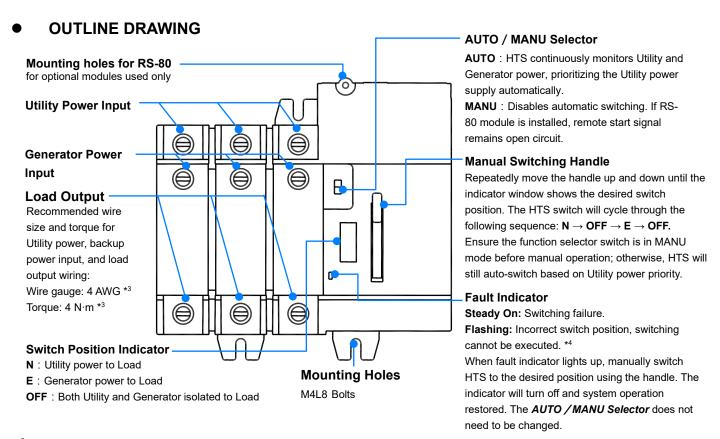
The automatic transfer switch must be installed by qualified technical personnel. Improper installation may cause personal injury or equipment damage.

SPECIFICATIONS

| ELECTRICAL SPECIFICATION | |
|---------------------------------------|---------------------------|
| Operating Voltage (Ue) | 110V : 90 Vac to 125 Vac |
| | 220V : 180 Vac to 250 Vac |
| Rated Current (le) | 80 Amp |
| Operating Frequency | 45 to 65 Hz |
| Time Delay Emergency to Normal (TDEN) | 2 seconds (fixed) |
| Time Delay Normal to Emergency (TDNE) | 2 seconds (fixed) |
| Static Power Consumption | Less than 0.3W |
| Equipment Classification | Class PC *1 |
| Load Category | AC-33A *2 |

| PHYSICAL SPECIFICATION | |
|------------------------|-------------------------------|
| HTS2P | 736 g +/- 2% / 1.62 lb +/- 2% |
| Operating Temperature | -20 to +50 °C |
| Storage Temperature | -30 to +80 °C |
| Relative Humidity | 90% max. |

- *1 Class PC: Capable of making and withstanding shorttime short-circuit current, but not expected to break shortcircuit current.
- *2 AC-33A: Electric motor loads, or mixed loads including motors, resistive load and less than 30% incandescent lamps.

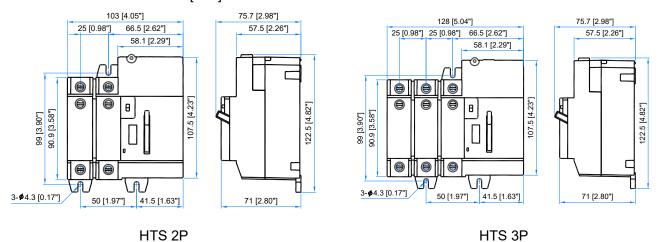


- *3: Improper wire gauge or tightening torque may lead to safety hazards. Insufficient torque can cause poor contact and overheating, resulting in equipment failure or fire; excessive torque may damage the terminal body and reduce system reliability.
- *4 : Do not switch to the OFF position while in AUTO mode at any time. This may cause the HTS to fail to switch properly and the fault indicator LED will continuously flash.

INSTALLATION

- **1.** For three-phase systems, ensure Utility and Generator power have the same phase sequence; mismatches may cause motor rotation issues.
- 2. HTS should be installed inside an insect-proof electrical enclosure, and should not be installed in environments subject to strong vibrations (e.g., small single-cylinder engine generators), excessive humidity, heavy dust, or corrosive gases.

DIMENSIONS Unit : mm[inch]



★The HTS transfer switch has the same height as the BH-type MCCB.

The partition cutout dimensions in the distribution box are: HTS2P: 60 x 105 mm / HTS3P: 60 x 130 mm

OPTIONAL ACCESSORIES – RS-80 Engine Remote Start Module

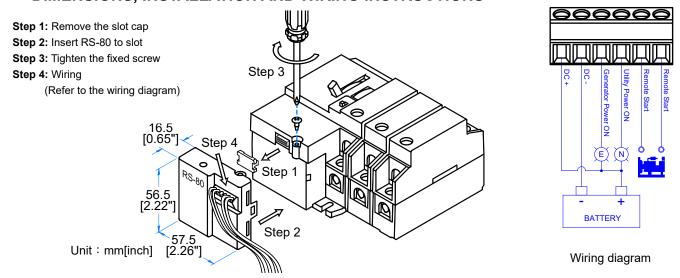
The RS-80 is a dedicated remote start module for HTS, providing dry contact output signals to the generator control unit for start or stop operations, as well as electrical signal outputs corresponding to the activation of the Utility or Generator power sources.

SPECIFICATIONS

| ELECTRICAL SPECIFICATION | |
|---|--------------------------------|
| DC Input Voltage | 9 to 36 Vdc |
| TDES Time Delay Engine Start (TDES) | 2 to 10 seconds (adjustable) |
| Time Delay Engine Cool-down (TDEC) | 10 seconds (fixed) |
| Static Power Consumption | Less than 0.3W |
| Remote Start Signal Output | 4A @ 30Vdc max. |
| Utility / Generator Power to Load signal output | NPN Output 1.5A max. |
| Compatible Wire Size | 24 to 18 AWG |

| PHYSICAL SPECIFICATION | | |
|------------------------|----------------|--|
| Weight | 41 g +/- 2% | |
| | 0.09 lb +/- 2% | |
| Operating Temperature | -20 to + 60 °C | |
| Storage Temperature | -30 to + 80 °C | |
| Relative Humidity | 90% max. | |

• DIMENSIONS, INSTALLATION AND WIRING INSTRUCTIONS



Caution: Ensure both Utility and Generator power sources of the HTS are disconnected, and the generator controller is in stop mode before installing, removing, or wiring the RS-80 remote start module.