

HTS RESIDENTIAL AUTOMATIC TRANSFER SWITCH

OPERATION MANUAL

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

● SPECIFICATIONS

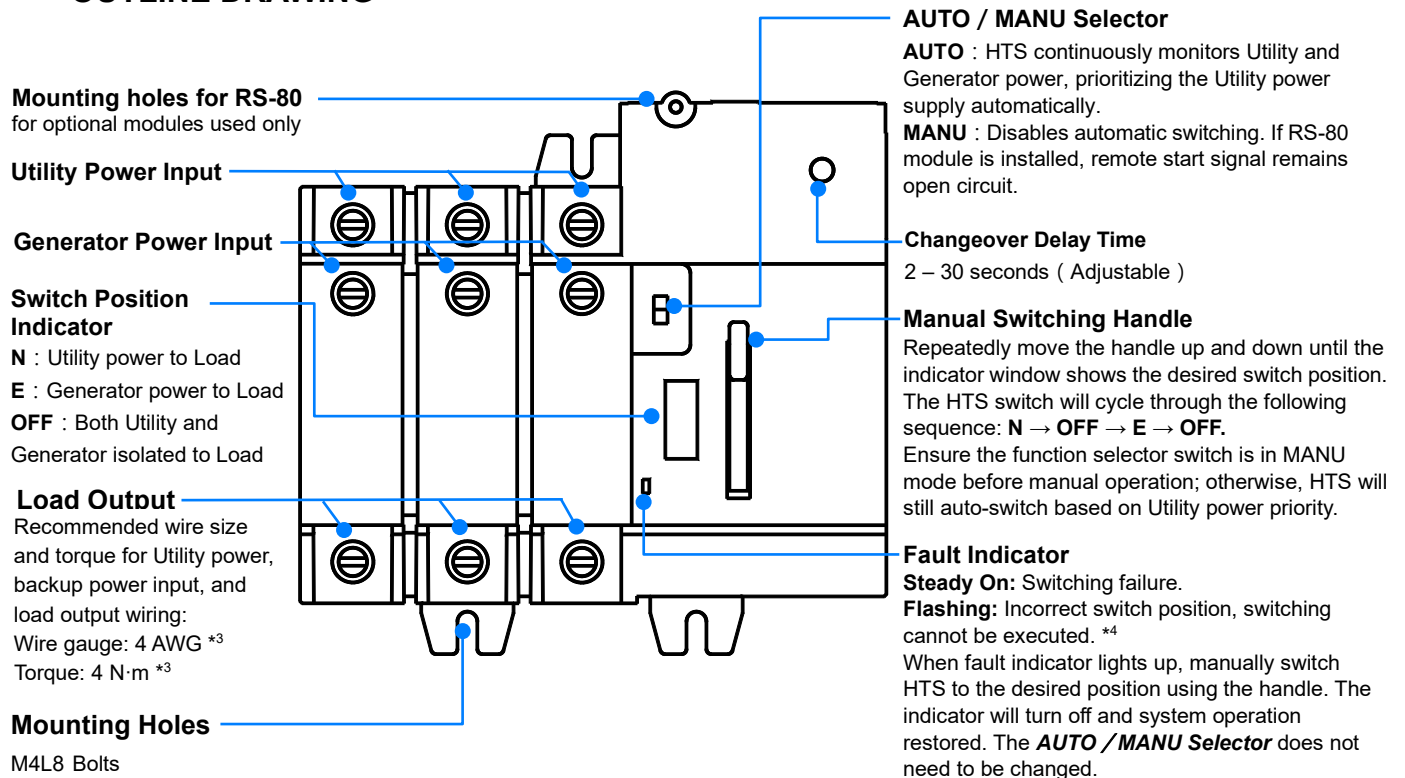
ELECTRICAL SPECIFICATION	
Operating Voltage (Ue)	110V : 90 Vac to 125 Vac
	220V : 180 Vac to 250 Vac
Rated Current (Ie)	80 Amp
Operating Frequency	45 to 65 Hz
Changeover Delay Time	2 – 30 seconds (Adjustable)
Static Power Consumption	Less than 0.3W
Load Category	AC-33A *1
Equipment Classification	Class PC *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 **AC-33A**: Electric motor loads, or mixed loads including motors, resistive load and less than 30% incandescent lamps.

*2 **Class PC**: Capable of making and withstanding short-time short-circuit current, but not expected to break short-circuit current.

● OUTLINE DRAWING



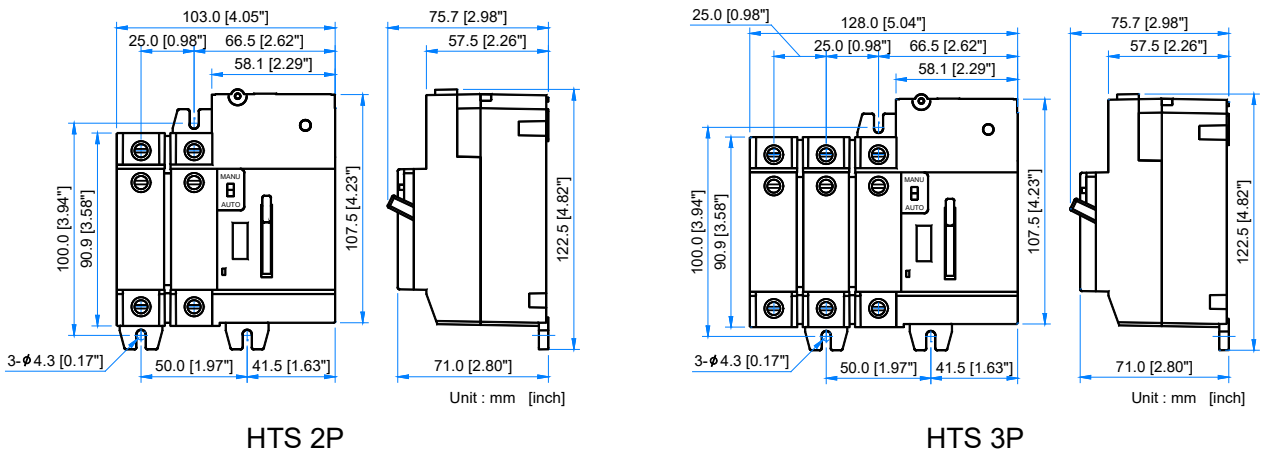
*3 : Improper wire gauge or tightening torque may lead to safety hazards. Insufficient torque can cause poor contact and overheating, resulting in equipment failure or fire; excessive torque may damage the terminal body and reduce system reliability.

*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**

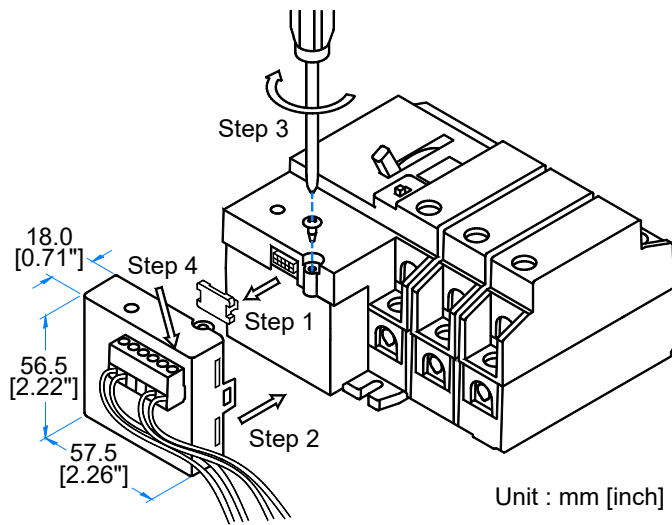
ELECTRICAL SPECIFICATION	
DC Input Voltage	9 to 36 Vdc
TDES Time Delay Engine Start (TDES)	2 to 10 seconds (adjustable)
Time Delay Engine Cool-down (TDEC)	10 seconds (fixed)
Static Power Consumption	Less than 0.3W
Remote Start Signal Output	4A @ 30Vdc max.
Utility / Generator Power to Load signal output	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 + 50 °C
Storage Temperature	-30 to + 80 °C
Relative Humidity	90% max.

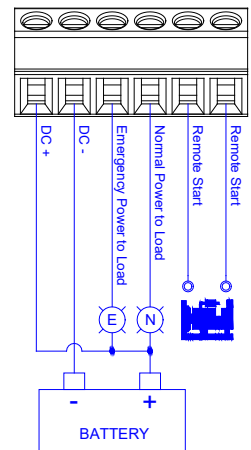
● **DIMENSIONS, INSTALLATION AND WIRING INSTRUCTIONS**

Installation Steps :

- Step 1:** Remove the slot cap
- Step 2:** Insert RS-80 to slot
- Step 3:** Tighten the fixed screw
- Step 4:** Wiring (Refer to the wiring diagram)



Dimensions and Installation Diagram



Wiring Diagram

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.