



HAT160

HAT160 ATS Controller is suitable for CB ATS of single motor. It can accurately detect 2-way-3-phase 4-wire/single-phase 2-wire voltage and judge voltage abnormal (such as, over voltage, under voltage, over frequency, under frequency and lack of phase), then control ATS after delay. When ATS switch abnormally, the controller can detect close/open failure and alarm on the front panel to ensure the correct action of ATS. After abnormal of I# power, the controller will send signal to start the genset. The controller has remote communication, remote control and parameter configuration functions via LINK port communication.

Product Code : 6020019

Power Supply : AC(170-277)V

Case Dimensions : 86.9x158x119.5(mm)

Panel Cutout : 73.5x144(mm)

Operating Temp. : (-25~+70)°C

Weight : 0.6kg

COMPLETE DESCRIPTION

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PERFORMANCE AND CHARACTERISTICS

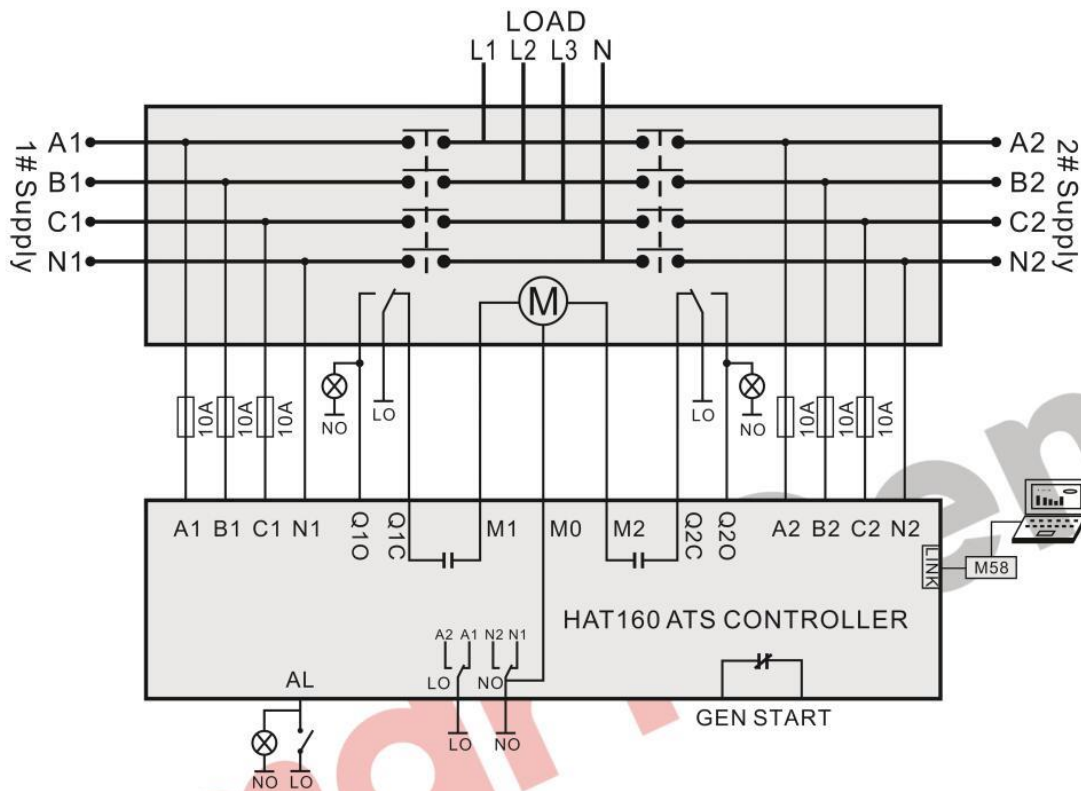
HAT160 controller can detect 2-way (2-way mains and 2-way gens or 1-way mains and 1-way gens) 3-phase/single phase voltage and control ATS.

1. Measure and display 2-way 3 phase Voltage and Frequency;
2. Over/under voltage, over/under frequency and loss of phase protection (active or deactive can be configured);
3. Close/Open failure alarm;
4. LED display work status;
5. Auto/Manual mode. In manual mode, ATS can be switched by pressing front panel button;
6. Applicable for 2 isolated neutral line.
7. "1# Priority, 2# Priority (auto change, auto recovery), No Priority (auto change, manually recovery)" and "1#/2# power normal/abnormal delay" can be set via panel buttons;
8. Automatic Re-closing;
9. Close delay, delay is 0.5s;
10. Any one way of A phase voltage is normal, the controller and ATS can normally work. When 2-way power and volts are abnormal at the same time, if any way of A phase voltage is normal, ATS will automatically transfer to Breaking (Middle) Position;
11. Fire reset interface. When the input port is enabled, ATS will automatically transfer to Breaking (OFF) Position;
12. Parameter setting: parts of parameters can be adjust from front panel; all can be adjust via LINK port(with SG72A adaptor) by using computer software;
13. Digitization adjustment of parameters (abandon simulation adjustment, enhanced reliability and stability);
14. Strong anti-electromagnetic interference ability, can be used under complex electromagnetic interference environment;
15. Modular design, self extinguishing ABS plastic shell, pluggable terminal, compact structure;
16. Three installation ways: panel built-in, internal 35mm slideway and internal screw mounting.

PARAMETER LIST

Function Item	Parameter
Display	LED
AC System	1P2W/3P4W
Alternator Voltage	(170~277)V(ph-N)
Alternator Frequency	50/60Hz
Monitor Interface	LINK
Programmable Interface	LINK
Switch Over Priority	●
Applicable Switch Type	One Motor Operation
Case Dimensions(mm)	87*158*120(L*W*H)
Panel Cutout(mm)	74*144
Operating Temp.	(-25~+70)°C

HAT160 Typical Application



⚠ CAUTION: If ATS has trip function, then it must be connected to AL port (AC Volt input).
 Ensure 1# and 2# A phase won't be abnormal at the same time, otherwise the controller won't send Close/Open signal.