

STATS3



Din Rail Automatic Transfer Switch



Standard_ IEC60947-4-1



STR- STATS380M20280



STR-STATS380M40280



General Specification

Description The Automatic Transfer Switch (ATS) is a PC Class automatic transfer switching device designed for dual power supply systems. The ATS continuously monitors the primary power source (Source A). In the event of a power failure or abnormal voltage, it automatically transfers the load to the backup power source (Source B) in less than 50 ms, ensuring uninterrupted power supply to critical loads. The unit supports both automatic and manual operation, making it suitable for a wide range of commercial and industrial power distribution applications.

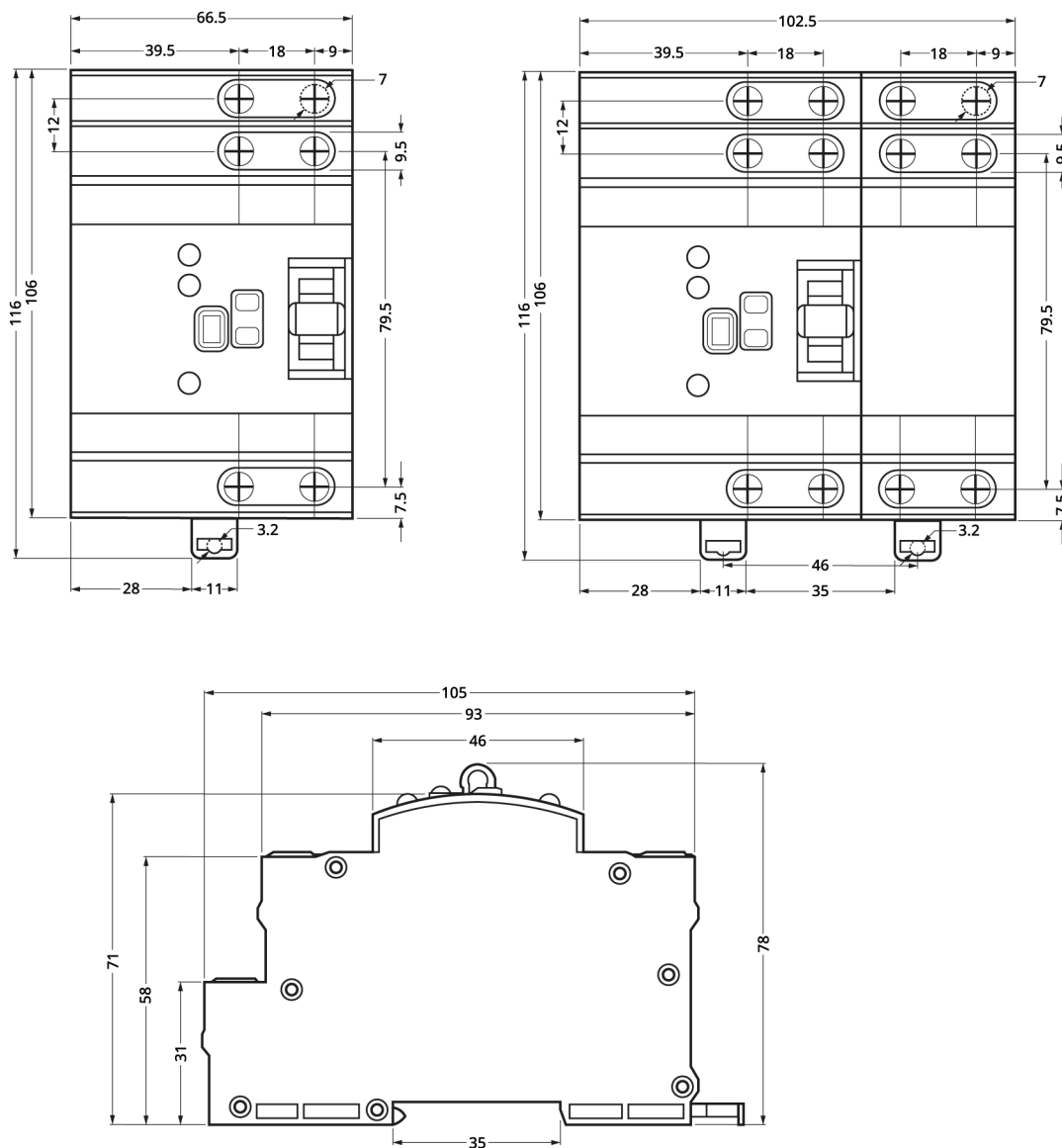
Electrical Features	ATS Type	Automatic Transfer Switch (PC Class)
	Frame Size	80 A
	IEC Standard	IEC 60947-6-1
	Rated Current (In)	6, 10, 16, 20, 25, 32, 40, 50, 63, 80 A
	Rated Operational Voltage (Ue)	AC 110 V / 220 V
	Rated Insulation Voltage (Ui)	690 V
	Rated Impulse Withstand Voltage (Uimp)	8 kV
	Rated Frequency	50/60 Hz
	Number of Poles	2P, 3P, 4P
	Utilization Category	AC-31B
	PC Class	Load transfer without generating short-circuit current
	Rated Conditional Short-Circuit Current (Iq)	50 kA
	Recommended Short-Circuit Protection	RT16-00 Fuse, 63 A
	Rated Control Voltage (Us)	AC 220 V, 50 Hz
	Control Voltage Operating Range	85% Us to 110% Us
	Auxiliary Contact Rating	AC 110 V / 220 V, 5 A
	Transfer Time (All Switching Operations)	< 50 ms
	Mechanical Endurance	≥ 5,000 operations
	Electrical Endurance	≥ 1,500 operations
	Installation	Mounting on 35mm DIN rail STR-RD1

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Overall and
installation
Dimension
(mm)



Operating Conditions

Operating temperature	-5°C to +40°C
Average temperature (24h)	≤35°C
Storage temperature	-25°C to +55°C
Short-term storage temperature	Up to +70°C (24 h max.)
Maximum altitude	2000 m
Relative humidity	Up to 90% (non-condensing)
Pollution degree	3
Enclosure protection	IP30
Overvoltage category	III (Main Circuit), II (Control Circuit)

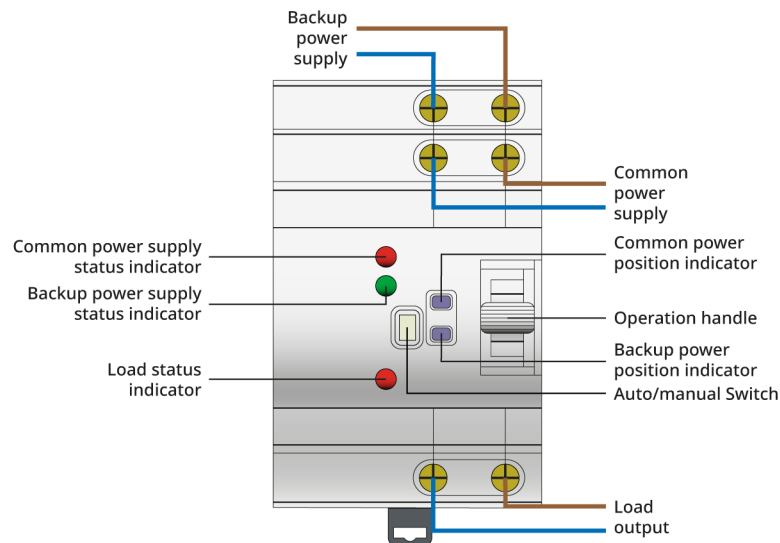
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User Manual

Wiring Instructions



Installation

- Installation must be performed by qualified personnel.
- Verify the ATS is free from damage before installation.
- Check the operating mechanism using the manual handle before energizing.
- Protect both power sources with appropriately rated circuit breakers.
- Suitable for vertical or horizontal mounting inside electrical panels.

Operation

The ATS continuously monitors the primary power source. If the primary source fails, the ATS automatically transfers the load to the backup source. Once the primary source returns to normal operating conditions, the ATS transfers the load back automatically (depending on system configuration). Manual operation is intended only for inspection and maintenance purposes and should be performed with the power supply disconnected.

The operating coil is designed to operate within 85% to 110% of the rated control voltage. Operating below the specified voltage range may cause overheating and damage to the operating coil.

Maintenance To ensure reliable operation:

- Perform the first inspection within 6 months after installation.
- Perform preventive maintenance at least once every year.
- Increase inspection frequency in dusty, humid, or harsh environments.

Maintenance should include:

- Cleaning dust and debris.
- Inspecting moving parts.
- Checking contact surfaces.
- Inspecting for corrosion or overheating.
- Measuring insulation resistance (minimum 10 MΩ using a 500 V megohmmeter)