

The smartest approach to provide continuous power for critical applications is to transfer sources between the load. ATeS (Automatic Transfer Switch) is designed with automatic start/stop DG operation to ease the transfer between primary source to alternate source for providing continuous power supply.

#### **Features:**

- Automatic Transfer switch with inbuilt micro processor based AMF controller
- AC 33B Utilization Category and in coherence with IEC 60947-6-1
- Source I & Source II protection against under/over voltage, under/over frequency, Single phase missing and optional overload tripping logic.
- External remote control logic by using PLC, ATS Controller or Genset Controller.
- Availability of over load tripping with inverse curve logic.
- Optional RS485 communication and cloud connectivity for IoT applications.
- Automatic start/stop operation of DG on mains failure.
- Fire alarm / external fault trip feature is provided.
- Inbuilt control switch for selecting auto/manual mode.
- High capacity to withstand short circuit.
- External indication terminal output for Source healthy and load ON. Inbuilt fuse protection to avoid failure of AMF controller.
- 3 Position isolation lock for Source I Off Source II.
- Optional Remote display for real time monitoring and controlling of both sources.
- Model-R is available with Incoming Terminal in bottom & Outgoing Terminal on top

### **Benefits:**

- Smooth and high-speed load transfer in the event of power outage or disturbances in the power supply.
- Incorporated with Fire Alarm/External fault trip and plays a pivotal role in providing maximum immunity to the electrical system from fire risk/faults.
- Systematized with time delays (timers) to prolong the stability of power source during automatic switching of sources in the case of blackout or loss of power.
- Facilitates easy installation and ensures reliable performance.

### **Application:**

- Airport and Railways
- IT Malls and Commercial buildings
- Automobile Industry
- Data Centre and Telecommunications
- Oil and Gas Industry
- Manufacturing Industry
- Healthcare
- Banking and Finance

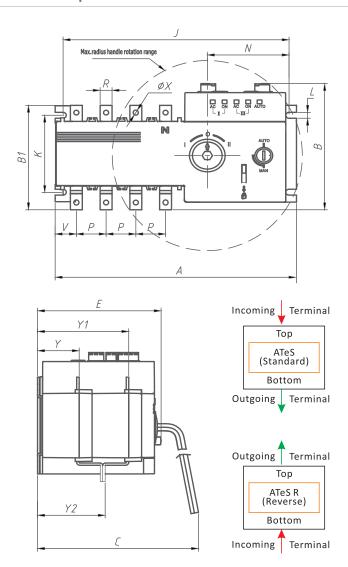
# **ATeS**

# Automatic Transfer Switch

Real-Time Monitoring | Improve Productivity

**CONTROL YOUR POWER SOURCES!** 

### **Mechanical Specification:**



63/100/125A

Spec. Outline Size (mm)							Mounting Size (mm)									
In	Α	В	В1	С	Е	J	K	٦	N	Р	R	٧	ØΧ	ØΥ		
125	230	135	125	165	112	132	85	6.5	83	30	12	21	6.5	41.5		

160/200/250A

Spec. Outline Size (mm)					Mounting Size (mm)									
In	Α	В	В1	С	Е	J	K	L	N	Р	R	٧	ØΧ	ØΥ
250	375	175	175	253	198	350	107	7.5	105	50	25	25	12	67

315/400/630A

Spec. Outline Size (mm)						Mounting Size (mm)								
In	Α	В	В1	С	Е	J	K	L	N	Р	R	٧	ØX	ØΥ
630	430	240	260	295	245	415	180	10	100	67	40	45	12	135

800/1000/ 1200/1600A

Spec.	Spec. Outline Size (mm)					Mounting Size (mm)								
In	Α	В	B1	С	Е	J	K	L	N	Р	R	٧	ØX	ØΥ
1600	636	345	337	373	320	612	220	11	83.5	120	80	71	13	196



## **Technical Specification:**

recimical Specification.	63/100/125A	160/200/250A	315/400/630A	800/1000/1200/1600					
ELECTRICAL CHARACTERISTICS									
Current Rating	63/100/125A	160/200/250A	315/400/630A	800/100/1200/1600A					
No. of Poles	4								
Rated Operating Voltage	415V								
Rated Insulation Voltage (Ui) V – Power Circuit	690V								
Rated Insulation Voltage (Ui) V – Control Circuit	500V								
Rated impulse withstand voltage (Uimp) - Power Circuit	8kV								
Rated impulse withstand voltage (Uimp) – Control Circuit	4kV								
Jtilization Category	AC – 33B								
Rated control Power supply /oltage	230V/50Hz								
Rated short circuit withstand current (KA, Rms) lcw(0.1/1s)	9/5 kA	12/25 kA	50/25 kA	25/50 kA					
Rated short circuit Making Capacity (KA, Peak) Icm	8 kA	17 kA	26 kA	55 kA					
Rated Limit short circuit current (KA) lq	120 kA								
Operating Cycle	10000	8000	6000	5000					
Motor operating Voltage	220V AC / 50Hz								
Auxiliary DC voltage	12-24V DC								
Standard	IEC60947-6-1								
MEASUREMENT PARAMETERS									
Primary Source	Voltage, Frequency & Curr								
Secondary Source	Voltage, Frequency & Curr	rent (Optional)							
Measurements Monitored  Communication	Remote display via LCD	at gatoway							
Communication	(Optional) RS485 / Etherno	et gateway							
PROGRAM CONFIGURATION									
Primary Source	Under Voltage(160-200V)/Over Voltage (240-290V) , Over Load with external CT, Under Frequency (40-48Hz) /Over Frequency (50-60Hz)								
Secondary Source	Under Voltage(150-200V) / Over Voltage (240-290V), Over Load with external CT, Under Frequency (40-48Hz) / Over Frequency (50-60Hz)								
Timers	Recovery delay (3 to 600s)	, Transfer delay(3 to 600s), G	Generator Start delay (3 to 600s)	, Generator stop delay(3 to 6					
Priority selection	Primary/Secondary source	2							
Overload	Source I (50-110%) and So	urce II (20-110%)							
Overload Cycles	3 Cycles								
Overload Recovery Time	0-99s								
Overload Delay Time	5-10s								
	3 103								
APPLICATIONS  Transfer Between Main Power	Applicable								
to Backup Power Transfer between Backup Power	Applicable								
to Main Power									
MODE OF OPERATION									
Selection Mode	Auto/Manual/Remote/RS4	185							
Position order	I-OFF-II								
Functionality  Manual Emergency Operation	On Load / Off Load Available								
MECHANICAL CHARACTERISTIC									
Mounting	Position A								
Outline Dimension in mm	245X115X125	373X175X200	435X260X245	635x340x320					
Weight in kg	5	10	20	60					
GENERAL CHARACTERISTIC									
	20° to 55° C								
Ambient temperature	-20° to 55° C	<u></u>							
Air Humidity Altitude	Not more than 50% @ 40° Not more than 2000 m								
ELECTROMAGNETIC CHARACTE									
Class	Class B								
Radio Frequency Transmission	EN55011								
	EN55011								
Radio Frequency Transmission Test Radio Frequency radiation Transmission Test	EN55011  EN55011								

