

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 32B Utilization Category and in coherence with IEC-60947-6-1
- Source I & Source II protection against under/over voltage, Single phase missing and optional overload tripping logic.
   External remote control logic by using PLC, ATS Controller or Genset
- Controller.
   Availability of ever load tripping with inverse super logic
- Availability of over load tripping with inverse curve logic.
- Optional Wifi communication and cloud connectivity for IoT
  applications.
- ATS With Wifi Free 24 months Cloud Monitoring
- 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.
- In-Built Display for real time monitoring of both sources.

### **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 IndustryManufacturing Industry
- Healthcare
- Banking and Finance

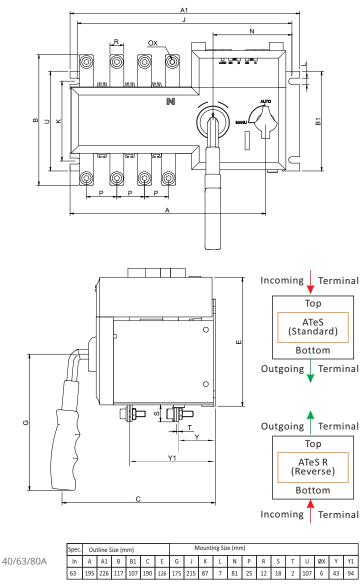


# ATes Automatic Transfer Switch

Real-Time Monitoring | Improve Productivity

CONTROL YOUR POWER SOURCES!

## **Mechanical Specification:**



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	63	195	226	117	107	190	126	175	215	87	7	81	25	12	18	2	107	6	43	94
	Spec.	Ou	tline S	ize (n	וm)				N	lounti	ing Siz	e (mn	1)							
100/125A	In	Α	A1	В	B1	С	E	G	J	K	L	Ν	Р	R	S	Т	U	ØX	γ	Y1
	125	210	243	119	107	168	125	172	228	86	6.5	89	30	15	34.7	2.4	107	8	41	91
	Spec.	Ou	tline S	ize (n	nm)				N	lounti	ng Siz	e (mn	1)							
160A	In	Α	A1	В	B1	С	E	G	J	К	L	Ν	Р	R	S	Т	U	ØX	Υ	Y1
	160	200	302	135	127	204	136	200.5	287	101	8	100	36	20	23.5	3.5	126.5	10	69	151
	Spec. Outline Size (mm)							Mounting Size (mm)												
200/250A	In	Α	A1	В	B1	С	Е	G	J	Κ	L	Ν	Р	R	S	Т	U	ØX	Υ	Y1
	250	332	375	165	134	240	154	172	348	109	6.5	100	50	24	30	3.5	134	11	69	151
	Spec.	Ou	tline S	ize (n	nm)				N	lounti	ing Siz	e (mn	1)							
315/400/630A	In	Α	A1	В	B1	С	Е	G	J	К	L	Ν	Р	R	S	Т	U	ØX	Y	Y1
	630	387	436	260	222	285	220	172	406	180	9	103	65	40	50.5	5	222	13	84	191
800/1000/	Spec. Outline Size (mm)						Mounting Size (mm)													
1200/1600A	In	А	A1	В	B1	С	Е	G	J	Κ	L	Ν	Р	R	S	Т	U	ØX	Y	Y1
1200/1000A	1600	536	636	330	337	373	230	440	612	220	11	83.5	120	80	65	8	222	13	106	240

## **Technical Specification:**

	40/63/80	100/125A		315/400/630A	800/1000/1200/1600A
ELECTRICAL CHARACTERISTICS	40/63/80	100/125A	160/200/250A	315/400/630A	800/100/1200/1600A
Current Rating		100/125A	160/200/250A	315/400/630A	800/100/1200/1600A
No. of Poles Rated Operating Voltage	4 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 foltage	230V/50Hz				
Rated short circuit withstand current (KA, Rms) Icw(0.1/1s)	7/5 kA	9/5 kA	12/25 kA	50/25 kA	25/50 kA
Rated short circuit Making Capacity (KA, Peak) Icm	8 kA	8 kA	17 kA	26 kA	55 kA
Rated Limit short circuit current KA) Iq Operating Cycle	120 kA 10000		8000	6000	5000
Notor operating Voltage	220V AC / 50	)Hz			
Auxiliary DC voltage	12-24V DC				
Standard	IEC60947-6-	1			
MEASUREMENT PARAMETERS					
Primary Source	Voltage, Fre	quency & Current	(Optional)		
Secondary Source	Voltage, Fre	quency & Current	(Optional)		
Measurements Monitored	In-Built Disp	2			
Communication	Wifi ( Optior	nal)			
PROGRAM CONFIGURATION					
Primary Source			er Voltage (240-285V) , Over se sequence Enable / Disabl	Load with external CT, Under e	Frequency (40-48Hz) /Over
	Frequency ( Under Volta	5ี0-60Hz) and Pha ge(160-210V) / Oง	se sequence Enable / Disabl	e · Load with external CT, Unde	
Secondary Source	Frequency ( Under Volta Frequency (	50-60Hz) and Pha ge(160-210V) / O\ 50-60Hz) and Pha	se sequence Enable / Disabl /er Voltage (240-285V), Over se sequence Enable / Disabl	e · Load with external CT, Unde	r Frequency (40-48Hz) /Ove
Secondary Source	Frequency ( Under Volta Frequency ( Recovery de	50-60Hz) and Pha ge(160-210V) / O\ 50-60Hz) and Pha	se sequence Enable / Disabl /er Voltage (240-285V), Over se sequence Enable / Disabl	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
Secondary Source Timers Priority selection	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec	50-60Hz) and Pha ge(160-210V) / Ov 50-60Hz) and Pha lay (3 to 600s), Tra	se sequence Enable / Disabl /er Voltage (240-285V), Over se sequence Enable / Disabl Insfer delay(3 to 600s), Gener	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
Secondary Source Fimers Priority selection Overload	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec	50-60Hz) and Pha ge(160-210V) / O 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source	se sequence Enable / Disabl /er Voltage (240-285V), Over se sequence Enable / Disabl Insfer delay(3 to 600s), Gener	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
Secondary Source Fimers Priority selection Overload Overload Trip cycles	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10- Up to 4 cycle	50-60Hz) and Pha ge(160-210V) / O 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s)	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%)	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
Secondary Source Fimers Priority selection Overload Overload Trip cycles AC System Selection	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10- Up to 4 cycle	50-60Hz) and Pha ge(160-210V) / Ov 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) nase for Both Sou	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%)	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
Secondary Source Fimers Priority selection Overload Overload Trip cycles AC System Selection Phase Sequence	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10 Up to 4 cycle 3Phase /1Ph	50-60Hz) and Pha ge(160-210V) / Ov 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) nase for Both Sou	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%)	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
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Secondary Source Fimers Priority selection Overload Overload Overload Trip cycles AC System Selection Phase Sequence APPLICATIONS Fransfer Between Main Power Transfer between Backup Power Fransfer between Backup Power	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10: Up to 4 cycle 3Phase /1Ph Enable/Disa	50-60Hz) and Pha ge(160-210V) / Ov 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) nase for Both Sou	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%)	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
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Secondary Source Fimers Priority selection Overload Overload Trip cycles AC System Selection Phase Sequence APPLICATIONS Fransfer Between Main Power to Backup Power Fransfer between Backup Power Selection Mode	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10- Up to 4 cycle 3Phase /1Ph Enable/Disa Applicable	50-60Hz) and Pha ge(160-210V) / O 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) nase for Both Sou ble	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%)	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
Secondary Source Fimers Priority selection Dverload Dverload Trip cycles AC System Selection Phase Sequence APPLICATIONS Fransfer Between Main Power o Backup Power Fransfer between Backup Power O Main Power MODE OF OPERATION Selection Mode Position order	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10- Up to 4 cycle 3Phase /1Ph Enable/Disa Applicable Applicable	50-60Hz) and Pha ge(160-210V) / Ov 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) nase for Both Sou ble	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%)	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
Secondary Source  Timers  Priority selection  Dverload  Dverload Trip cycles  AC System Selection  Phase Sequence  APPLICATIONS  Transfer Between Main Power o Backup Power  Transfer between Backup Power  O Main Power  MODE OF OPERATION  Selection Mode Position order Functionality	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10- Up to 4 cycle 3Phase /1Ph Enable/Disa Applicable Applicable Auto/Manua I-OFF-II	50-60Hz) and Pha ge(160-210V) / Ov 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) nase for Both Sou ble	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%)	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
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Secondary Source  Timers  Priority selection  Dverload  Dverload Trip cycles  AC System Selection  Phase Sequence  APPLICATIONS  Transfer Between Main Power o Backup Power  Transfer between Backup Power  O Main Power  MODE OF OPERATION  Selection Mode Position order  Functionality Manual Emergency Operation  MECHANICAL CHARACTERISTIC	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10- Up to 4 cycle 3Phase /1Ph Enable/Disa Applicable Applicable Auto/Manua I-OFF-II On Load / O Available	50-60Hz) and Pha ge(160-210V) / Ov 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) nase for Both Sou ble	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%)	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
Secondary Source  Timers  Priority selection  Dverload  Dverload Trip cycles  AC System Selection  Phase Sequence  APPLICATIONS  Transfer Between Main Power  O Backup Power  Transfer between Backup Power  O Main Power  MODE OF OPERATION  Selection Mode  Position order  Functionality  Manual Emergency Operation  MECHANICAL CHARACTERISTIC  Mounting	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10) Up to 4 cycle 3Phase /1Ph Enable/Disa Applicable Applicable Applicable Applicable I-OFF-II On Load / O Available	50-60Hz) and Pha ge(160-210V) / Ov 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) nase for Both Sou ble	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%)	e · Load with external CT, Unde e	r Frequency (40-48Hz) /Ove
Secondary Source  Timers  Priority selection  Diverload  Diverload Trip cycles  AC System Selection  Phase Sequence  APPLICATIONS  Transfer Between Main Power  O Backup Power  Transfer between Backup Power  O Main Power  MODE OF OPERATION  Selection Mode  Position order  Functionality  Manual Emergency Operation  MECHANICAL CHARACTERISTIC  Mounting  Dutline Dimension in mm	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10) Up to 4 cycle 3Phase /1PH Enable/Disa Applicable Applicable Applicable I-OFF-II On Load / O Available	50-60Hz) and Pha ge(160-210V) / Ov 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) hase for Both Sou ble	se sequence Enable / Disabl /er Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%) rces	e : Load with external CT, Unde e ator Start delay (3 to 9999s), G	enerator stop delay(3 to 9999
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Secondary Source  Fimers  Priority selection  Dverload  Dverload Trip cycles  AC System Selection  Phase Sequence  APPLICATIONS  Fransfer Between Main Power  O Backup Power  Fransfer between Backup Power  O Main Power  MODE OF OPERATION  Gelection Mode  Position order  Functionality Manual Emergency Operation  MECHANICAL CHARACTERISTIC  GENERAL CHARACTERISTIC	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10: Up to 4 cycle 3Phase /1Ph Enable/Disa Applicable Applicable Applicable Applicable C Position A 226X117X107 4	50-60Hz) and Pha ge(160-210V) / OV 50-60Hz) and Pha lay (3 to 600s), Tra ondary source -110%) and Source es (6-150s) hase for Both Sou ble al/Remote/Cloud ff Load 243X119X107	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%) rces 375X165X134	e Load with external CT, Unde ator Start delay (3 to 9999s), G	enerator stop delay(3 to 9999
Secondary Source Fimers Priority selection Dverload Dverload Trip cycles AC System Selection Phase Sequence APPLICATIONS Fransfer Between Main Power o Backup Power Fransfer between Backup Power MODE OF OPERATION Selection Mode Position order Functionality Manual Emergency Operation MECHANICAL CHARACTERISTIC Mounting Dutline Dimension in mm Weight in kg GENERAL CHARACTERISTIC Ambient temperature	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10: Up to 4 cycle 3Phase /1PF Enable/Disa Applicable Applicable Applicable Applicable Position A 226X117X107 4 -20° to 55° C	50-60Hz) and Pha         ge(160-210V) / OV         50-60Hz) and Pha         lay (3 to 600s), Tra         ondary source         -110%) and Source         -110%) and Source         es (6-150s)         nase for Both Sou         ble         al/Remote/Cloud         ff Load         243x119x107         5	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%) rces 375X165X134	e Load with external CT, Unde ator Start delay (3 to 9999s), G	enerator stop delay(3 to 9999
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Secondary Source  Secondary Source  Secondary Source  Secondary Source  Secondary Source  Secondary Selection  Selection  Phase Sequence  Secondary Selection  Secondary Selection  Secondary Secondary  Secondary	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10- Up to 4 cycle 3Phase /1Ph Enable/Disa Applicable Applicable Applicable Auto/Manua I-OFF-II On Load / O Available C Position A 226X117X107 4 -20° to 55° C Not more th	50-60Hz) and Pha         ge(160-210V) / OV         50-60Hz) and Pha         lay (3 to 600s), Tra         ondary source         -110%) and Source         -110%) and Source         es (6-150s)         nase for Both Sou         ble         al/Remote/Cloud         ff Load         243x119x107         5         aan 50% @ 40° C	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%) rces 375X165X134	e Load with external CT, Unde ator Start delay (3 to 9999s), G	enerator stop delay(3 to 9999
Secondary Source Timers Timers Priority selection Overload Overload Trip cycles AC System Selection Phase Sequence APPLICATIONS Transfer Between Main Power to Backup Power Transfer between Backup Power MODE OF OPERATION Selection Mode Position order Functionality Manual Emergency Operation MECHANICAL CHARACTERISTIC Mounting Outline Dimension in mm Weight in kg GENERAL CHARACTERISTIC Ambient temperature Air Humidity Altitude ELECTROMAGNETIC CHARACT	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10: Up to 4 cycle 3Phase /1PF Enable/Disa Applicable Applicable Applicable Applicable Position A 226X117X107 4 -20° to 55° C Not more th Not more th ERISTIC	50-60Hz) and Pha         ge(160-210V) / OV         50-60Hz) and Pha         lay (3 to 600s), Tra         ondary source         -110%) and Source         -110%) and Source         es (6-150s)         nase for Both Sou         ble         al/Remote/Cloud         ff Load         243x119x107         5         aan 50% @ 40° C	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%) rces 375X165X134	e Load with external CT, Unde ator Start delay (3 to 9999s), G	enerator stop delay(3 to 9999
Secondary Source  Timers  Priority selection  Dverload  Dverload  Dverload  Dverload  Dverload  Dverload  Dverload  Dverload  Dverload  Phase Sequence  APPLICATIONS  Transfer Between Main Power  o Backup Power  Transfer between Backup Power  Transfer between Backup Power  MODE OF OPERATION  Selection Mode  Position order  Functionality  Manual Emergency Operation  MECHANICAL CHARACTERISTIC  Ambient temperature  Air Humidity  Attitude	Frequency ( Under Volta Frequency ( Recovery de Primary/Sec Source I (10- Up to 4 cycle 3Phase /1Ph Enable/Disa Applicable Applicable Applicable Auto/Manua I-OFF-II On Load / O Available C Position A 226X117X107 4 -20° to 55° C Not more th	50-60Hz) and Pha         ge(160-210V) / OV         50-60Hz) and Pha         lay (3 to 600s), Tra         ondary source         -110%) and Source         -110%) and Source         es (6-150s)         nase for Both Sou         ble         al/Remote/Cloud         ff Load         243x119x107         5         aan 50% @ 40° C	se sequence Enable / Disabl ver Voltage (240-285V), Over se sequence Enable / Disabl insfer delay(3 to 600s), Gener e II (10-110%) rces 375X165X134	e Load with external CT, Unde ator Start delay (3 to 9999s), G	enerator stop delay(3 to 9999



#### **B&E Electric Private Limited**

Plot No. 2/A, Shyam Ujjawal Industrial Plotting Opp. State Bank of India, Phase - 1, Vatva GIDC, Ahmedabad - 382445 GUJARAT

Ph.: +91 98983 05030 E-Mail: info@beelectric.in www.beelectric.in