



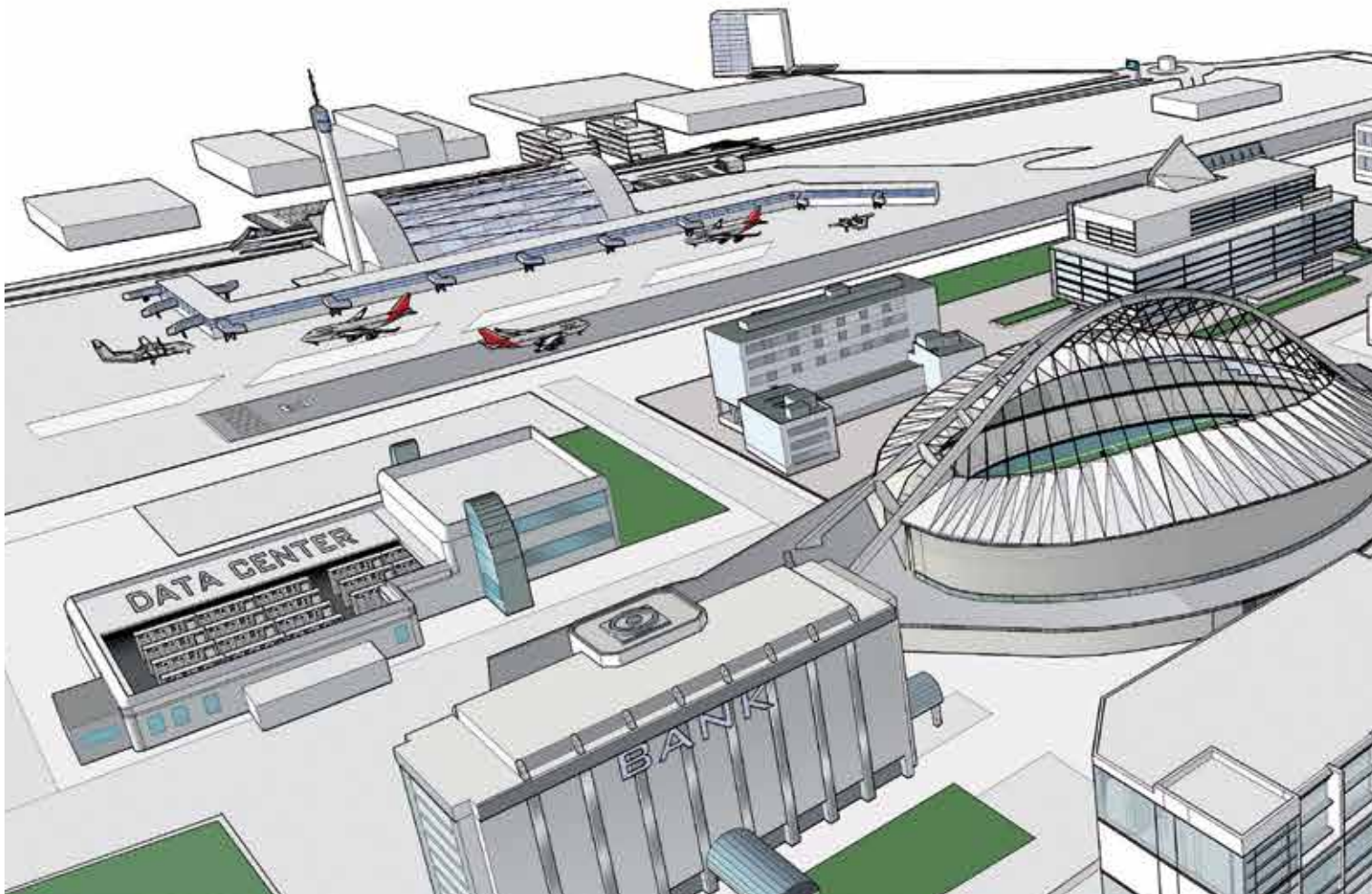
Securing your power supply
Enclosed manual & automatic transfer
switches for critical power applications

Power and productivity
for a better world™



Enclosed manual and automatic transfer switches ABB low voltage component capabilities for critical power applications

Critical power applications require a constant and reliable power supply to keep fundamental services running and prevent serious consequences caused by the interruption or absence of the electrical grid. Selection of a source of switching, control and protection capable of sustaining the needs of a critical power application is paramount, ABB has a well proven track record within this environment.

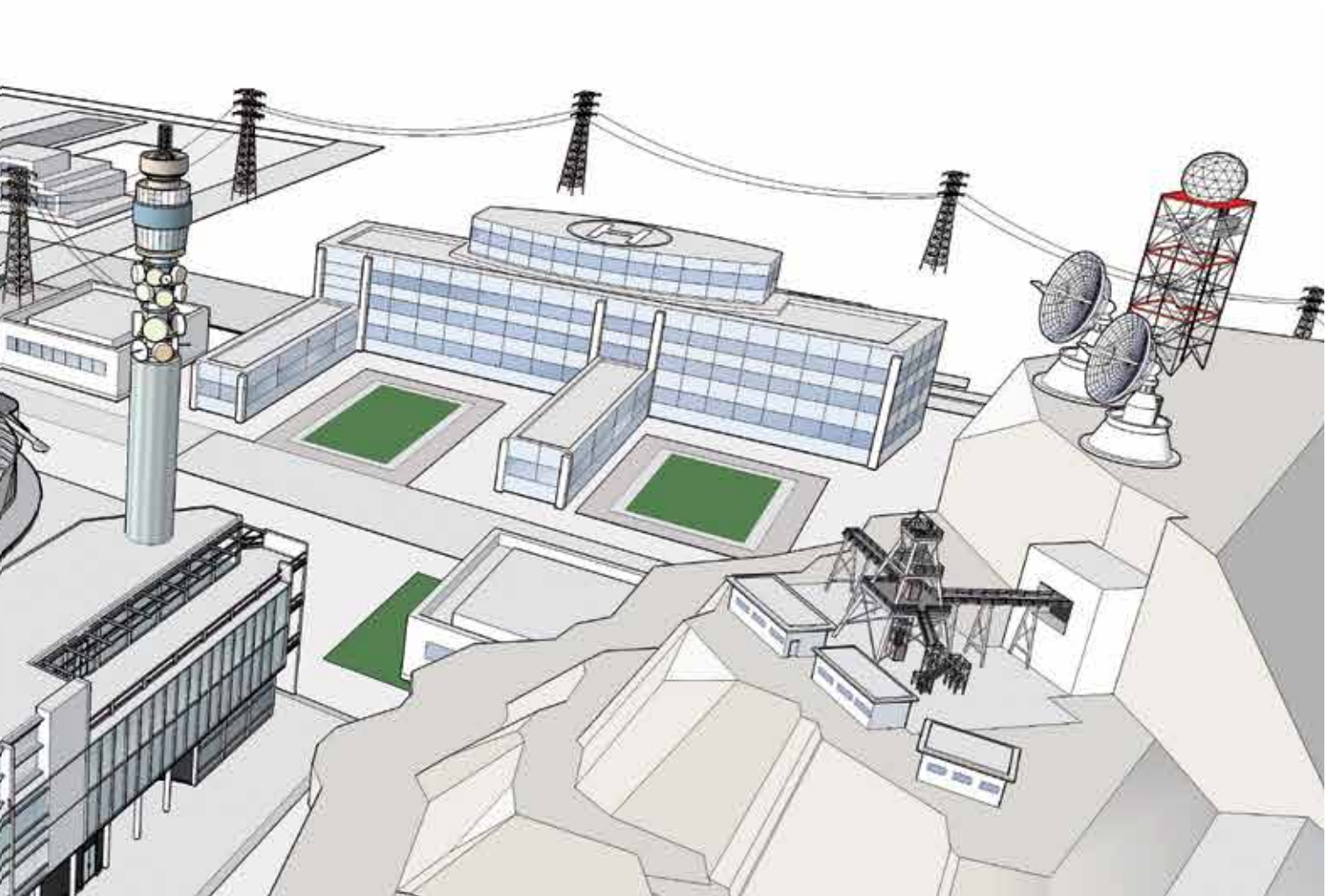


In today's world, electrical power plays a key role in almost every activity of our life. For some equipment a reliable, uninterruptible and free of disturbance power supply is an absolute essential. From this point of view, a fault in the power supply of communications systems, hospital apparatus, security systems, water and gas distribution devices, banking computers and many other crucial applications may bring about serious problems, with consequences that can be devastating.

All these applications can be identified as "Critical Power" applications: ABB can offer a wide range of components for on board installation and complete power distribution systems.

These products include:- automatic transfer switches (ATS) and automatic control units (ACU), manual and motorised change-over switches, isolators, switch-disconnectors, Air and moulded-case circuit breakers and miniature circuit breakers, protection devices against overvoltages, contactors, current sensors and many other devices.

ABB products comply with the most important international standards and European or North American - and with the requirements of the Navy Registry; they are also designed and built on the basis of the most modern and advanced environmental standards. ABB products are backed by a consolidated experience in power and automation technologies. They are supported through a global assistance and service network which covers more than 100 countries all over the world.



Enclosed manual & automatic transfer switches

Functionality & features

As industrial processes and IT applications diversify, a secure power supply is becoming an increasingly important asset in the drive to cut production and maintenance costs. In emergency situations, the system logic of power distribution can become complex with mechanical devices looking after the making, breaking, conducting and isolating of power. Loads may sometimes need to be transferred from one supply to another — this will be the case when energy use is restricted or when the supply source is overloaded.

ATS isolator

Bypass supply selection switch

Closed transition ATS bypass switch

Automatic transfer controller

Automatic transfer switch

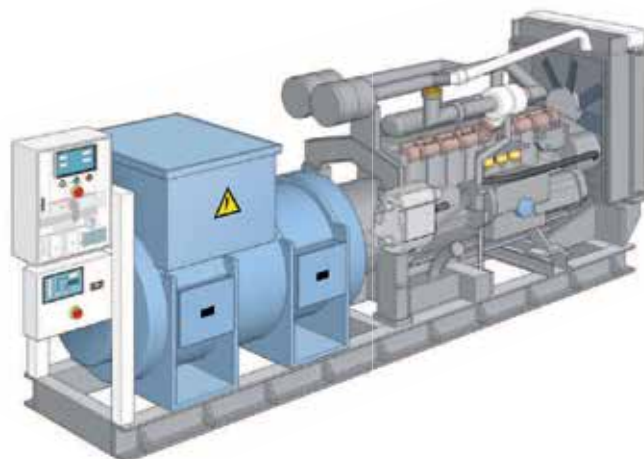


High performance level

In change-over applications where the loaded switch may need to be operated remotely, adequate durability has been ensured by testing against the IEC 60947-6-1 standard in the specification of endurance requirements.

Utilisation categories:

- AC-31 for non-inductive or slightly inductive load
 - AC-33 for motor loads or mixed loads including motors
- ABB change-over switches are rated according to IEC 60947-6-1 standard.



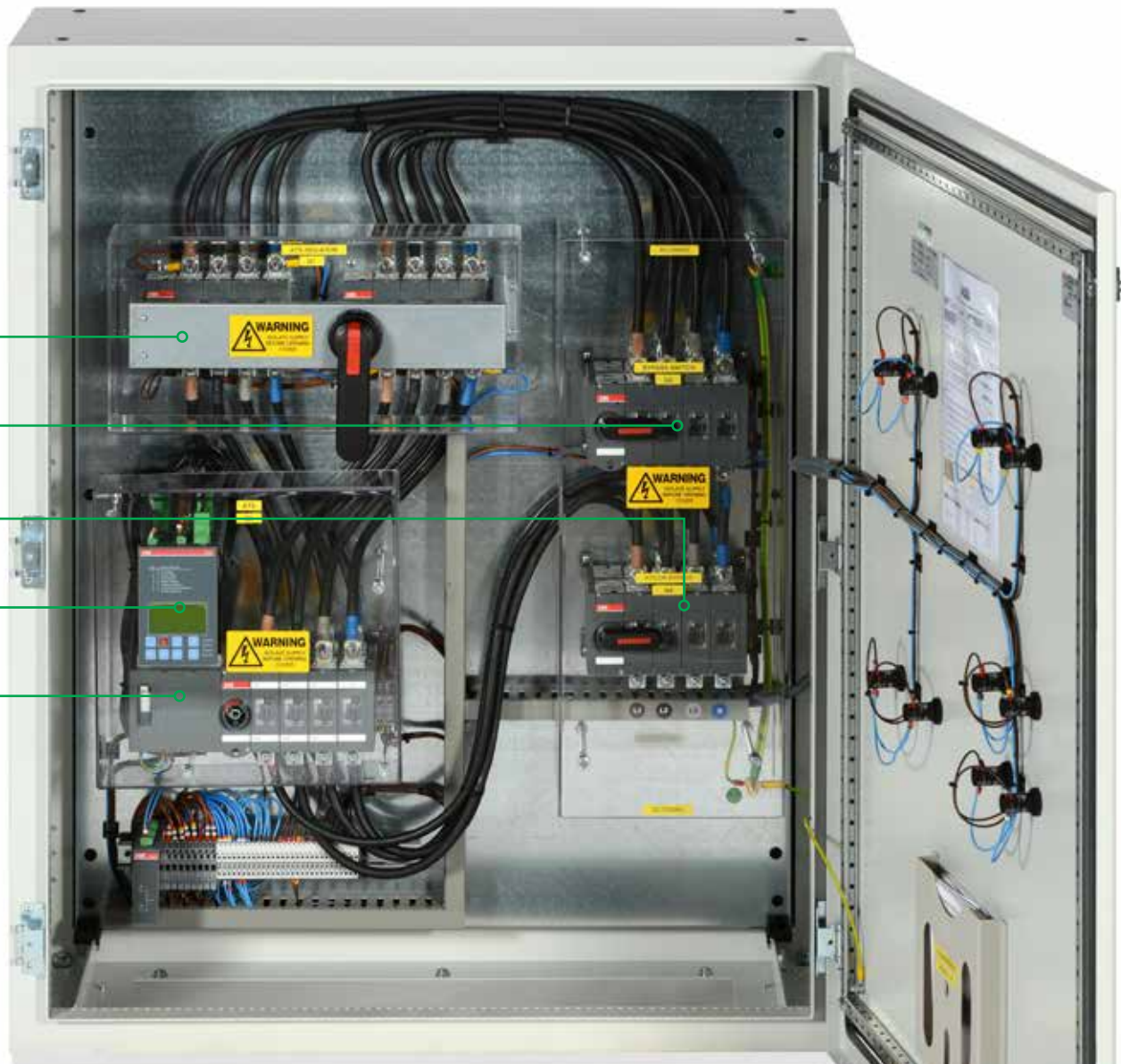


Fig. 1 - ATS automatic transfer switch with dual supply bypass



Enclosed automatic transfer switches

General information



Automatic transfer switches

Automatic transfer switches comply with the standards listed below.

- IEC 60947-1:
Low voltage switchgear and control gear Part 1: General rules
- IEC 60947-3:
Low voltage switchgear and control gear Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination
- IEC 60947-6-1-PC: Low voltage switchgear and control gear Part 6: Multiple function equipment – Transfer switching equipment

Application

The automatic transfer switch is managing different power supplies to one or more load circuits and guarantees the continuity of performance. The automatic transfer switch ensures the switching and isolation between the primary network supply and the alternate network supply or a standby generator. Type of operation is open transition, i.e. break-before-make.

The automatic transfer switches can be operated in three ways, local manual operation with handle, local manual operation with the automatic control unit or full automatic operation done by the automatic control unit. Manual operation, using a handle is the simplest type of operation. Local manual operation with the control unit enables to operate the switch electrically. Full automatic operation ensures that loads are transferred automatically to the secondary source in case of mains failure. Both local operation with the control unit and full automatic operation enables a short switch-off time between the normal and the alternative supply.

Automatic transfer switches shall be used for switching I, 0 and II positions following types of loads:

- Off load application (AC 20A)
- Resistive loads (AC 21 or AC31)
- Mixed resistive and inductive loads (AC 22)
- Motor loads

Enclosed automatic transfer switches with current ratings 40A ... 1600A. The enclosure complies with IP65 EN 60529 and finished in a RAL 7035 colour.

The ATS enclosures are designed to allow adequate cabling space to allow installers to terminate oversized cables.

Design & safety

Automatic transfer switches are available as 3 or 4 pole versions. All three positions I, 0 and II shall be stable and keep its positions in case of supply failure or mechanical shocks.

The switch mechanism is located on the left hand side to the switch's power poles. The operating mechanism is of "quick make / quick break" construction. The position indication markings on the mechanism shall always show reliably the true position of the main contacts. Automatic transfer switches can be operated by direct mounted handle and the handle shall be showing reliably the real position of the main contacts of the transfer switch. The handle will allow the switch to be padlocked in the off position.

The automatic transfer switch is constructed with a motor operator. The motor operator is protected against overloads with a separate overload fuse (160A to 1600A). The fuse is situated at the bottom of the Motor. The 40A to 125A motor is protected by a resettable overload button.

The accessories, i.e. terminal shrouds and auxiliary contacts shall be mountable without any special tools (i.e. snap on mounting).

The terminals of the 160A to 1600A automatic transfer switch it is possible to connect two parallel cables for easier installation and space saving. All the terminals shall be finger protected with or without separate terminal shrouds. All the metal parts shall be protected against corrosion. The contact surfaces shall be silver-plated to minimise contact resistance. The automatic transfer switches meet the ROHS requirements and only recyclable material is used. The current carrying plastic parts shall have high thermal, mechanical and electrical properties and have V0 classification.

The voltage sensing wiring from the switch's power poles to the automatic control unit is done by the automatic transfer switch manufacturer. Voltage sensing wires are double insulated.

Enclosed automatic transfer switches

General & technical specification

The handle is a direct mounted type, and it shall be padlockable in the "0" position with three padlocks with 5 ...6 mm. It is possible to operate switch with the manual handle in case of emergency, regardless of the position of switch and without any supply power.

Technical specifications according to IEC 60947-3 and IEC 60947-6-1

- Type of equipment ATSE
- Class of equipment PC
- Rated operational voltage, Ue Max. 415 V
- Rated impulse withstand voltage, Uimp 6 kV
- Rated frequency 50 - 60 Hz
- EMC environment A and B

Bypass Requirement

In order to comply with BS8519 which states "Where the availability of the life safety and fire-fighting equipment is conditional to the occupation of the building, a bypass arrangement should be incorporated to enable the changeover device to be maintained without loss of service from the critical plant".

The bypass switches consist of the following;

Single or mains bypass

A closed transition manual changeover switch is included to allow for the seamless (no 0 position giving no break in supply when moving to bypass) transition to bypass. The front of the panel should indicate that the ATS has been bypassed and is safe to carry out maintenance.

Dual Bypass

A closed transition manual changeover switch is included to allow for the seamless (no 0 position giving no break in supply when moving to bypass) transition to bypass. Together with a standard manual changeover switch to allow you to choose between supply 1 or supply 2. The front of the panel should indicate that the ATS has been bypassed and which supply is feeding the load and is safe to carry out maintenance.

Specific ratings according to IEC 60947-3 40A to 125A

| | | | | | | |
|--|------|-------|-------|-------|-------|-------|
| Rated free air thermal current (Ith) and operational current in AC20 at 40°C ambient temperature | A | 40 | 63 | 80 | 115 | 125 |
| Rated enclosed thermal current (Ith) and operational current in AC20 at 40°C ambient temperature | A | 40 | 63 | 80 | 115 | 125 |
| Rated operational current AC 21A and AC 22A at voltages up to 500V | A | 40 | 63 | 80 | 100 | 125 |
| Rated operational current AC23A at voltages up to 415V | A | 40 | 63 | 80 | 80 | 90 |
| Rated AC 23 breaking capacity at 415V | A | 320 | 504 | 640 | 640 | 720 |
| Rated conditional short circuit current Ip (r.m.s.) at 415V, 50kA net and corresponding max. allowed cut-off current of gG | kA | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |
| Rated short time withstand current Icw 690v (1sec), (r.m.s. value) | kA | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Rated short time making capacity Icm, peak value 690v | kA | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| Mechanical endurance / switch | Oper | 20000 | 20000 | 20000 | 20000 | 20000 |
| Rated short-time withstand current Icw (r.m.s.) 690V, 0,1 sec | kA | 5 | 5 | 5 | 5 | 5 |
| Rated operational current, AC-31B, up to 415V | A | 40 | 63 | 80 | 100 | 125 |
| Rated operational current, AC-33B, up to 415V | A | 40 | 63 | 80 | 80 | 80 |

Specific ratings according to IEC 60947-3 160A to 1600A

| | | | | | | | | | | | |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Rated free air thermal current (Ith) and operational current in AC20 at 40°C ambient temperature | A | 160 | 200 | 250 | 315 | 400 | 630 | 800 | 1000 | 1250 | 1600 |
| Rated enclosed thermal current (Ith) and operational current in AC20 at 40°C ambient temperature | A | 160 | 200 | 250 | 315 | 400 | 630 | 800 | 1000 | 1250 | 1600 |
| Rated operational current AC 21A and AC 22A at voltages up to 415V | A | 160 | 200 | 250 | 315 | 400 | 630 | 800 | 1000 | 1250 | 1600 |
| Rated operational current AC23A at voltages up to 415V | A | 160 | 200 | 250 | 315 | 400 | 630 | 800 | 1000 | 1250 | 1250 |
| Rated AC 23 breaking capacity at 415V | A | 1280 | 1600 | 2000 | 2520 | 3200 | 5040 | 6400 | 10000 | 10000 | 10000 |
| Rated conditional short circuit current Ip (r.m.s.) at 415V, 50kA net and corresponding max. allowed cut-off current of gG | kA | 40.5 | 40.5 | 40.5 | 59 | 59 | 83.5 | 83.5 | 100 | 100 | 100 |
| Rated short time withstand current Icw 690v (1sec), (r.m.s. value) | kA | 8 | 8 | 8 | 15 | 15 | 20 | 20 | 50 | 50 | 50 |
| Rated short time making capacity Icm, peak value 690v | kA | 30 | 30 | 30 | 65 | 65 | 80 | 80 | 92 | 92 | 92 |
| Mechanical endurance / switch | Oper | 16000 | 16000 | 16000 | 16000 | 16000 | 10000 | 10000 | 6000 | 6000 | 6000 |
| Rated short-time withstand current Icw (r.m.s.) 690V, 0,1 sec | kA | 15 | 15 | 15 | 25 | 25 | 38 | 38 | 50 | 50 | 50 |
| Rated operational current, AC-31B, up to 415V | A | 160 | 200 | 250 | 315 | 400 | 650 | 720 | 1000 | 1250 | 1600 |
| Rated operational current, AC-33B, up to 415V | A | 160 | 200 | 250 | 315 | 400 | 650 | 650 | 1000 | 1000 | 1000 |

Enclosed automatic transfer switches Controllers technical specification



Comments

- 1) Dual power source allows the motor operator to be supplied by two separate voltage supplies. This way the motor operator is always energized.
 - 2) Four options: 0, 5, 10 or 30 seconds.
 - 3) Delaying the switching sequence before transferring to generator, guaranteeing that in cold locations the generator is properly heated up.
 - 4) Two options: the duration of back-switching delay is the same as switching delay, i.e. the time delay is same for I - II and II - I, or the back-switching delay is fixed 300 seconds.
 - 5) Two options: the duration of generator stop delay is the same as Switching delay or fixed 5 min.
 - 6) Menus available in eight languages: English, French, German, Italian, Spanish, Russian, Chinese and Finnish.
 - 7) Two-way communication, bus communication protocol is Modbus
 - 8) In case of source failure, the controller can be supplied with an external auxiliary supply with 24...110 V DC.
 - 9) Automatic control unit requires an external signal before allowing the transfer to secondary.
 - 10) Two options for the operating mode after receiving the alarm: control unit either works normally, or initiates generator stop with operation to position 0.
 - 11) Two options: No line priority, or Source 1 is the priority source.
 - 12) Three options: No line priority, Source 1 or Source 2 is the priority source.
 - 13) Automatic back-switching to primary source is prevented.
 - 14) Automatic control unit and motor operator must be energized.
- X = includes as standard
0 = as an accessory

Functionality

| | OTM_C3D | OTM_C8D |
|--|------------------|------------------|
| 1. Automatic transfer switch products overview | | |
| 1.1. Automatic control unit | OMD300 | OMD800 |
| 1.1.1. Manual operation with handle | X | X |
| 1.2. Local operation with front panel keypad | X | X |
| 1.3. Automatic transfer switching equipment (ATSE) | X | X |
| 1.4. Dual power source for the motor operator ¹⁾ | X | 0 |
| 2. Measurements | | |
| 2.1. Three phase voltage measurement on LINE1 | X | X |
| 2.2. Single phase voltage measurement on LINE1 | X | X |
| 2.3. Three phase voltage measurement on LINE2 | X | X |
| 2.4. Single phase voltage measurement on LINE2 | X | X |
| 2.5. Frequency on LINE1 | X | X |
| 2.6. Frequency on LINE2 | X | X |
| 2.7. Possibility to check measurements on LCD | | X |
| 3. Source failure detections | | |
| 3.1. No voltage | X | X |
| 3.2. Undervoltage | X | X |
| 3.3. Overvoltage | X | X |
| 3.4. Phase missing | X | X |
| 3.5. Voltage unbalance | X | X |
| 3.6. Invalid frequency | X | X |
| 3.7. Incorrect phase sequence | | X |
| 4. Configuration | | |
| 4.1. By DIP switches | X | |
| 4.2. By rotary switches | X | |
| 4.3. By keypad and LCD | | X |
| 4.4. Voltage threshold setting | X | X |
| 4.5. Voltage hysteresis setting | | X |
| 4.6. Frequency threshold setting | | X |
| 4.7. Frequency hysteresis setting | | X |
| 5. Time delays | | |
| 5.1. Switching delay | X ²⁾ | X |
| 5.2. Delay on transfer ³⁾ | | X |
| 5.3. Dead band time I-II (stop switching to position 0) | | X |
| 5.4. Back-switching delay | X ⁴⁾ | X |
| 5.5. Dead band time II-I (stop switching to position 0) | | X |
| 5.6. Generator stop delay | X ⁵⁾ | X |
| 5.7. Status of time delays on the LCD | | X |
| 6.1. Features | | |
| 6.2. Generator start and stop | X | X |
| 6.3. OFF-load test sequence | X | X |
| 6.4. ON-load test sequence | X | X |
| 6.5. Source status via front panel | X | X |
| 6.6. Source status via digital outputs | | X |
| 6.7. Switch position via front panel | X | X |
| 6.8. LCD ⁶⁾ | | X |
| 6.9. Fieldbus interface ⁷⁾ | | X |
| 6.10. Event/alarm log | | X |
| 6.11. Counter for number of operations | | X |
| 6.12. Auxiliary voltage supply ⁸⁾ | | X |
| 6.13. Programmable digital inputs (eight) and digital outputs (six) | | X |
| 6.14. Secondary load control (load shedding) | | X |
| 6.15. Digital input – Allow transfer to secondary ⁹⁾ | | X |
| 6.16. Digital input – Generator alarm ¹⁰⁾ | | X |
| 6.17. Digital input - Remote control to positions I, 0 and II | | X |
| 7. Operating mode | | |
| 7.1. Line priority | X ¹¹⁾ | X ¹²⁾ |
| 7.2. Manual back-switching ¹³⁾ | X | X |
| 7.3. Automatic operation to position 0, in case of source failure ¹⁴⁾ | | X |
| 8. Applications | | |
| 8.1. Transfer between two transformers | X | X |
| 8.2. Transfer between a transformer and a generator | X | X |

Enclosed manual & automatic transfer switches Selection

Enclosed manual transfer switches, I-O-II operation, open transition

- MTS 4 pole 40 to 800A with blank door, wall mountable



| Description | Rated Current (A) | Enclosure Size (mm) | | | Order Code |
|-------------|-------------------|---------------------|-----|-----|------------|
| | | H | W | D | |
| MTS 40A | 40 | 400 | 300 | 150 | OT40FPC-B |
| MTS 63A | 63 | 400 | 300 | 150 | OT63FPC-B |
| MTS 80A | 80 | 400 | 300 | 150 | OT80FPC-B |
| MTS 100A | 100 | 500 | 400 | 250 | OT100FPC-B |
| MTS 125A | 125 | 500 | 400 | 250 | OT125FPC-B |
| MTS 160A | 160 | 600 | 400 | 250 | OT160FPC-B |
| MTS 200A | 200 | 600 | 400 | 250 | OT200FPC-B |
| MTS 250A | 250 | 600 | 400 | 250 | OT250FPC-B |
| MTS 315A | 315 | 800 | 600 | 300 | OT315FPC-B |
| MTS 400A | 400 | 800 | 600 | 300 | OT400FPC-B |
| MTS 630A | 630 | 1000 | 600 | 400 | OT630FPC-B |
| MTS 800A | 800 | 1000 | 600 | 400 | OT800FPC-B |



Enclosed automatic transfer switches, I-O-II operation, open transition

- ATS 4 pole 40 to 1600A with OMD300 & OMD800 controller, blank door, wall mountable



| Description | Rated Current (A) | Enclosure Size (mm) | | | Controller OMD300 | | Controller OMD800 | |
|-------------|-------------------|---------------------|-----|-----|-------------------|-----------------|-------------------|-----------------|
| | | H | W | D | Part Number | Order Code | Part Number | Order Code |
| ATS 40A | 40 | 600 | 600 | 250 | OTA40E4C3SR | 1TVC004014S3000 | OTA40E4C8SR | 1TVC004014S8000 |
| ATS 63A | 63 | 600 | 600 | 250 | OTA63E4C3SR | 1TVC006314S3000 | OTA63E4C8SR | 1TVC006314S8000 |
| ATS 125A | 125 | 600 | 600 | 250 | OTA125E4C3SR | 1TVC012514S3000 | OTA125E4C8SR | 1TVC012514S8000 |
| ATS 160A | 160 | 600 | 600 | 250 | OTA160E4C3SR | 1TVC016014S3000 | OTA160E4C8SR | 1TVC016014S8000 |
| ATS 250A | 250 | 600 | 600 | 250 | OTA250E4C3SR | 1TVC025014S3000 | OTA250E4C8SR | 1TVC025014S8000 |
| ATS 400A | 400 | 800 | 600 | 300 | OTA400E4C3SR | 1TVC040014S3000 | OTA400E4C8SR | 1TVC040014S8000 |
| ATS 630A* | 630 | 1000 | 800 | 400 | OTA630E4C3AM | 1TVC063024S3000 | OTA630E4C8AM | 1TVC063024S8000 |
| ATS 800A* | 800 | 1000 | 800 | 400 | OTA800E4C3AM | 1TVC080024S3000 | OTA800E4C8AM | 1TVC080024S8000 |
| ATS 1000A* | 1000 | 1400 | 800 | 500 | OTA1000E4C3AM | 1TVC100024S3000 | OTA1000E4C8AM | 1TVC100024S8000 |
| ATS 1250A* | 1250 | 1400 | 800 | 500 | OTA1250E4C3AM | 1TVC125024S3000 | OTA1250E4C8AM | 1TVC125024S8000 |
| ATS 1600A* | 1600 | 1400 | 800 | 500 | OTA1600E4C3AM | 1TVC160024S3000 | OTA1600E4C8AM | 1TVC160024S8000 |

* Floor standing - plinths from accessories below.

Bypass options are available on request.

Other wall mounting and floor standing versions available on request.

Enclosed bypass switches, I-O-II operation, open transition

- BPS 4 pole 40 to 630A with OMD800 controller, blank door, wall mountable



| Description | Rated Current (A) | Enclosure Size (mm) | | | Single Bypass Controller OMD800 | Dual Bypass Controller OMD800 |
|-------------|-------------------|---------------------|------|-----|---------------------------------|-------------------------------|
| | | H | W | D | Order Code | Order Code |
| BPS 40A | 40 | 1000 | 800 | 300 | OTA40E4C8SBSR | OTA40E4C8DBSR |
| BPS 63A | 63 | 1000 | 800 | 300 | OTA63E4C8SBSR | OTA63E4C8DBSR |
| BPS 100A | 100 | 1000 | 800 | 300 | OTA100E4C8SBSR | OTA100E4C8DBSR |
| BPS 125A | 125 | 1000 | 800 | 300 | OTA125E4C8SBSR | OTA125E4C8DBSR |
| BPS 160A | 160 | 1200 | 1000 | 400 | OTA160E4C8SBSR | OTA160E4C8DBSR |
| BPS 250A | 250 | 1200 | 1000 | 400 | OTA250E4C8SBSR | OTA250E4C8DBSR |
| BPS 400A | 400 | 1200 | 1000 | 400 | OTA400E4C8SBSR | OTA400E4C8DBSR |
| BPS 630A | 630 | 1600 | 1200 | 600 | OTA630E4C8DBAM | OTA630E4C8DBAM |

Enclosed manual & automatic transfer switches

Accessories



Enclosed Automatic Transfer Switch with ATS2PL & ATSDMC optional extras

Optional extras

| Description | Part Number | Order Code |
|--|-------------|-----------------|
| 2 pilot lights | ATS2PL | 1TVC151800S2311 |
| Door mounted controller complete with IP54 cover plate | ATSDMC | 1TVC151800S2312 |
| Energy meter | ATSEM | 1TVC151800S2313 |
| Aniti-condensation heater with thermostat | ATSHT | 1TVC151800S2314 |

Accessories

| Description | Suitable switch | Part Number | Order Code |
|--|-----------------|-------------|-----------------|
| N/O auxiliary for on right hand side of switch | OTA40-1600 | 0A1G10 | 1SCA022673R1140 |
| N/O auxiliary for on left hand side of switch | | 0A7G10 | 1SCA022744R2240 |
| N/C auxiliary for on right hand side of switch | OTA40-125 | 0A8G01 | 1SCA022353R4890 |
| N/C auxiliary for on left hand side of switch | | 0A1G01 | 1SCA022456R1710 |
| N/C auxiliary for on right hand side of switch | OTA160-1600 | 0A3G01 | 1SCA022456R7410 |
| | OTA40-125 | 0HB65D6CM | 1SCA022870R9430 |
| | OTA160-250 | 0TV250ECMK | 1SCA022804R0570 |
| Direct mounting handle, padlockable with 3 padlocks in '0' position. Includes shaft and mech cover | OTA400 | 0TV400ECMK | 1SCA022843R2900 |
| | OTA630-800 | 0TV800ECMK | 1SCA022804R3410 |
| | OTA1000-1600 | 0TV1000ECMK | 1SCA111301R1001 |
| | OTA40-125 | 0TVS0 | 1SCA117524R1001 |
| Handle and spare fuse storage clip | OTA160-250 | 0TVS1 | 1SCA111413R1001 |
| | OTA400-1600 | 0TVS2 | 1SCA111414R1001 |
| IP54 cover plate for door mounting ATS controller | All | 0MZC2 | 1SCA101001R1001 |
| Yale type key, 19mm dia box with security insert | OTA40-400 | AA8002 | AA8002 |
| Unique coded Yale insert lock | OTA630-1600 | EV1036 | EV1036 |
| A4 Document pocket | All | EV1075K | EV1075K |
| Blind plinth flanges (pair) H100 x W800mm | OTA630-1600 | ZN8000 | ZN8000 |
| Blind plinth flanges (pair) H100 x D400mm | OTA630-800 | ZN4011 | ZN4011 |
| Blind plinth flanges (pair) H100 x D500mm | OTA1000-1600 | ZN5011 | ZN5011 |
| Wall mounting brackets (4 off) | OTA40-400 | AA1206 | AA1206 |
| Anti tilting brackets (pair) | OTA630-1600 | TA1207 | TA1207 |

Critical Power other ABB products



Tmax MCCBs

Tmax XT MCCBs up to 250A
Tmax MCCBs up to 3200A



Emax 2 ACBs

Emax ACBs 800 - 6300A
Emax DC ACBS 800 - 5000A
Emax X1 ACBs 630 to 1600A

OS Switch Fuses

OS Switch Fuses 20 - 1250A



Block Contactors

AF 4 pole up to 370A
EK 4 pole up to 1000A



Enclosed Products

Isolators 32 - 125A
Safety Switches 25 - 40A
Loadbreak Switches 32 - 800A
Switch Fuses 20 - 800A
ATS 40 - 1600A



Other Switches

XR Slimline Disconnecter Fuses 63 - 630A
Cam Switches
Easyline Fuse Switch Disconnectors
Inline Fuse Switch Disconnectors



OT Switches

Disconnectors 16 - 2500A
Motorised Switch Disconnectors 160 - 2500A
OT_C Manual Changeover Switches 16 - 2500A
Motorised Changeover Switches 40 - 125A
Motorised Changeover Switches 160 - 2500A
Automatic Transfer Switches 160 - 2500A
Bypass Switches 160 - 800A



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