CRAIG & DERRICOTT

Technical Sales Brochure

Automatic Transfer Switches

mercia

SAFE IN OUR HANDS

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Contents

Who are **Craig & Derricott**

Over the past 100 years, Craig & Derricott have earned a strong reputation for customer service excellence and delivery of high-quality products.

We specialise in the design, manufacture and overhaul of low voltage electrical isolation switchgear, control stations, automatic transfer switches, rail rolling stock components and LED lighting, supplying to customers large and small around the world.

Our customers operate in a wide variety of markets and sectors including Railway, Construction, Ventilation (Fire Rated), Explosion Proof, Medical, Military, Panel Builders and Power & Distribution.

Our aim is to support our customers through innovative and quality engineering, products and services. We strive to form strong and sustainable commercial partnerships, with a positive impact for sustainability, for key industries and for the planet. The world keeps changing, but after 100 years our passion stays the same.

If you have any questions regarding any of the products shown in this brochure, contact us via our website chat, email or telephone, or speak to our area sales managers listed on page 10. We are more than happy to answer any questions and queries you may have.

Additonally, Craig & Derricott are pleased to offer an accredited CPD service, available to consultants, electrical engineers, graduates and other technical persons.

Please contact us for more details.

Single Line Bypass Form 3 ATS

This range of life safety form 3 motorised automatic transfer switches with no-break single line bypass, are rated from 32A to 630A. These can be supplied in SPN (230V) and TPN (400V) AC 50/60Hz variants. Our ATS units are designed to allow safe automatic transfer of loads from a primary supply to a standby generator or secondary power supply.

Specification Detail

Each ATS comes standard with the following:

- LED status display and keypad – for ATS configuration.
- Lock off actuator for downstream maintenance.
- AC33B utilisation category.
- Generator Stop / Start delay functionality.
- Modbus communication. As standard, other BMS protocols available upon request
- BMS connectivity.
- Aux power supply option 24V DC.
- Incoming isolators & outgoing terminals.
- Volt free status relays, mimic and Modbus terminals for easy connection.
- Single Line No-Break Bypass for maintenance, servicing, and repairs (bypassing the primary supply).
- FAT, RAM & Factory programing available upon request.

Each ATS is supplied in (RAL 7035) sheet steel enclosure with removable gland plates, offering up to IP65 protection degree from dust and water ingress.

To ensure longevity of your C&D ATS, it is strongly recommended that the correct enclosure material is selected for your application. For instance, mild steel IP55/ IP65 may not provide adequate protection when exposed to challenging weather conditions. C&D strongly recommends consideration of a stainless-steel or GRP enclosure and an anti-condensation kit in these circumstances.

Applied Standards: EN60947-6-1 PC type, BS EN/IEC 61439-2, BS EN/IEC 60947-3, BS 8519:2020, BS9999:2017, BS9991:2024, BS EN/IEC 60529.

These can be configured to suit your application. Bespoke configurations are available, e.g. larger ratings, top entry, different paint colours, stainless steel, anti condensation kit.

Single Line Bypass Form 3 ATS

Catalogue Numbers

SPN: ATS0322E530 | TPN: ATS0324E530

32A
800mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS0452E530 | TPN: ATS0454E530

45A
800mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS0632E530 | TPN: ATS0634E530

63A
800mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS0802E530 | TPN: ATS0804E530

80A
800mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS1002E530 | TPN: ATS1004E530

100A
1000mm x 600mm x 300mm - IP65
Max Cable Size 50mm² - Bottom Entry

SPN: ATS1252E530 | TPN: ATS1254E530

125A
1000mm x 600mm x 300mm - IP65
Max Cable Size 50mm² - Bottom Entry

SPN: ATS1602E530 | TPN: ATS1604E530

160A
1000mm x 600mm x 300mm - IP65
Max Cable Size 50mm² - Bottom Entry

SPN: ATS2502E530 | TPN: ATS2504E530

250A
1200mm x 800mm x 300mm - IP65
Max Cable Size 95mm² - Bottom Entry

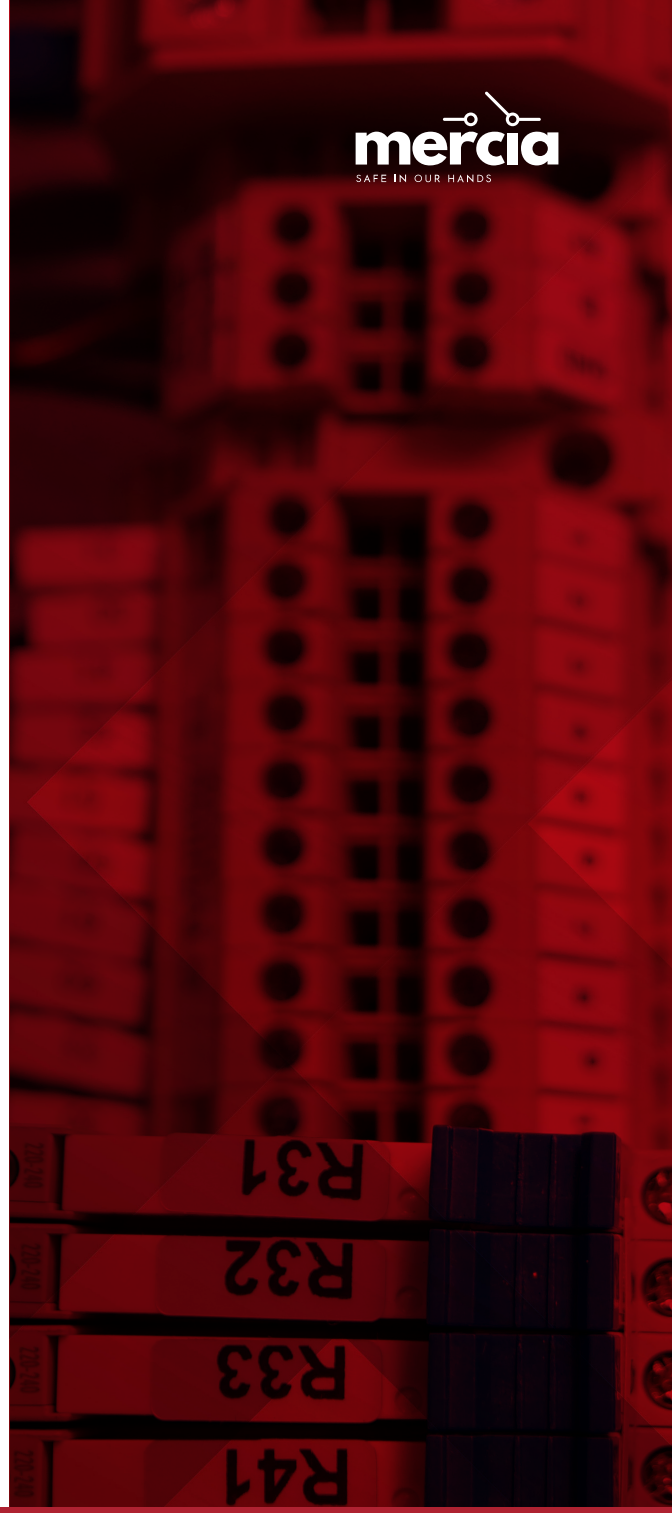
SPN: ATS4002E630 | TPN: ATS4004E630

400A *
1600mm x 1000mm x 400mm - IP55
Max Cable Size 240mm² - Top Entry

SPN: ATS6302E630 | TPN: ATS6304E630

630A *
1800mm x 1000mm x 400mm - IP55
Max Cable Size 2 x 240mm² - Top Entry

* *Requires HI-AB Delivery. This is a chargeable service.*



Riser Single Line Bypass Form 3 ATS

This compact range of Form 3 motorised automatic transfer switches are rated from 32A to 63A and designed to fit into applications where space is limited. These can be supplied in SPN (230V) and TPN (400V) AC 50/60Hz variants. Our ATS units are designed to allow safe automatic transfer of loads from a primary supply to a standby generator or secondary power supply.

Specification Detail

Each ATS comes standard with the following:

- LED status display and keypad – for ATS configuration.
- Lock off actuator for downstream maintenance.
- AC33B utilisation category.
- Generator Stop / Start delay functionality.
- Modbus communication. As standard, other BMS protocols available upon request
- BMS connectivity.
- Aux power supply option 24V DC.
- Incoming isolators & outgoing terminals.
- Volt free status relays, mimic and Modbus terminals for easy connection.
- Single Line No-Break Bypass for maintenance, servicing, and repairs (bypassing the primary supply).
- FAT, RAM & Factory programing available upon request.

Each ATS is supplied in (RAL 7035) sheet steel enclosure with removable gland plates, offering up to IP65 protection degree from dust and water ingress.

To ensure longevity of your C&D ATS, it is strongly recommended that the correct enclosure material is selected for your application. For instance, mild steel IP55/IP65 may not provide adequate protection when exposed to challenging weather conditions. C&D strongly recommends consideration of a stainless-steel or GRP enclosure and an anti-condensation kit in these circumstances.

Applied Standards: EN60947-6-1 PC type, BS EN/IEC 61439-2, BS EN/IEC 60947-3, BS 8519:2020, BS9999:2017, BS9991:2024, BS EN/IEC 60529.

These can be configured to suit your application. Bespoke configurations are available, e.g. larger ratings, top entry, different paint colours, stainless steel, anti condensation kit.

Riser Single Line Bypass Form 3 ATS

Catalogue Numbers

SPN: ATS0322E730 | TPN: ATS0324E730

32A
800mm x 400mm x 200mm - IP20
Max Cable Size 25mm² - Top & Bottom Entry

SPN: ATS0452E730 | TPN: ATS0454E730

45A
800mm x 400mm x 200mm - IP20
Max Cable Size 25mm² - Top & Bottom Entry

SPN: ATS0632E730 | TPN: ATS0634E730

63A
800mm x 400mm x 200mm - IP20
Max Cable Size 35mm² - Top & Bottom Entry

Dual Line Bypass Form 3 ATS

This range of life safety Form 3 motorised automatic transfer switches with no-break dual line bypass, are rated from 32A to 630A. These can be supplied in SPN (230V) and TPN (400V) AC 50/60Hz variants. Our ATS units are designed to allow safe automatic transfer of loads from a primary supply to a standby generator or secondary power supply.

Specification Detail

Each ATS comes standard with the following:

- LED status display and keypad – for ATS configuration.
- Lock off actuator for downstream maintenance.
- AC33B utilisation category.
- Generator Stop / Start delay functionality.
- Modbus communication.
- BMS connectivity.
- Aux power supply option 24V DC.
- Incoming isolators & outgoing terminals.
- Volt free status relays, mimic and Modbus terminals for easy connection.
- Dual Line No-Break Bypass for maintenance, servicing, and repairs (bypassing the primary or secondary supply).
- FAT, RAM & Factory programing available upon request

Each ATS is supplied in (RAL 7035) sheet steel enclosure with removable gland plates, offering up to IP65 protection degree from dust and water ingress.

To ensure longevity of your C&D ATS, it is strongly recommended that the correct enclosure material is selected for your application. For instance, mild steel IP55/ IP65 may not provide adequate protection when exposed to challenging weather conditions. C&D strongly recommends consideration of a stainless-steel or GRP enclosure and an anti-condensation kit in these circumstances.

Applied Standards: EN60947-6-1 PC type, BS EN/IEC 61439-2, BS EN/IEC 60947-3, BS 8519:2020, BS9999:2017, BS9991:2024, BS EN/IEC 60529.

These can be configured to suit your application. Bespoke configurations are available, e.g. larger ratings, top entry, different paint colours, stainless steel, anti condensation kit.

Dual Line Bypass Form 3 ATS

Catalogue Numbers

SPN: ATS0322E540 | TPN: ATS0324E540

32A
800mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS0452E540 | TPN: ATS0454E540

45A
800mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS0632E540 | TPN: ATS0634E540

63A
1000mm x 800mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS0802E540 | TPN: ATS0804E540

80A
1000mm x 800mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS1002E540 | TPN: ATS1004E540

100A
1000mm x 800mm x 300mm - IP65
Max Cable Size 50mm² - Bottom Entry

SPN: ATS1252E540 | TPN: ATS1254E540

125A
1000mm x 800mm x 300mm - IP65
Max Cable Size 50mm² - Bottom Entry

SPN: ATS1602E540 | TPN: ATS1604E540

160A
1200x 1000mm x 300mm - IP55
Max Cable Size 50mm² - Bottom Entry

SPN: ATS2502E640 | TPN: ATS2504E640

250A *
1600mm x 1000mm x 400mm - IP55
Max Cable Size 95mm² - Top Entry

SPN: ATS4002E640 | TPN: ATS4004E640

400A *
1800mm x 1000mm x 400mm - IP55
Max Cable Size 240mm² - Top Entry

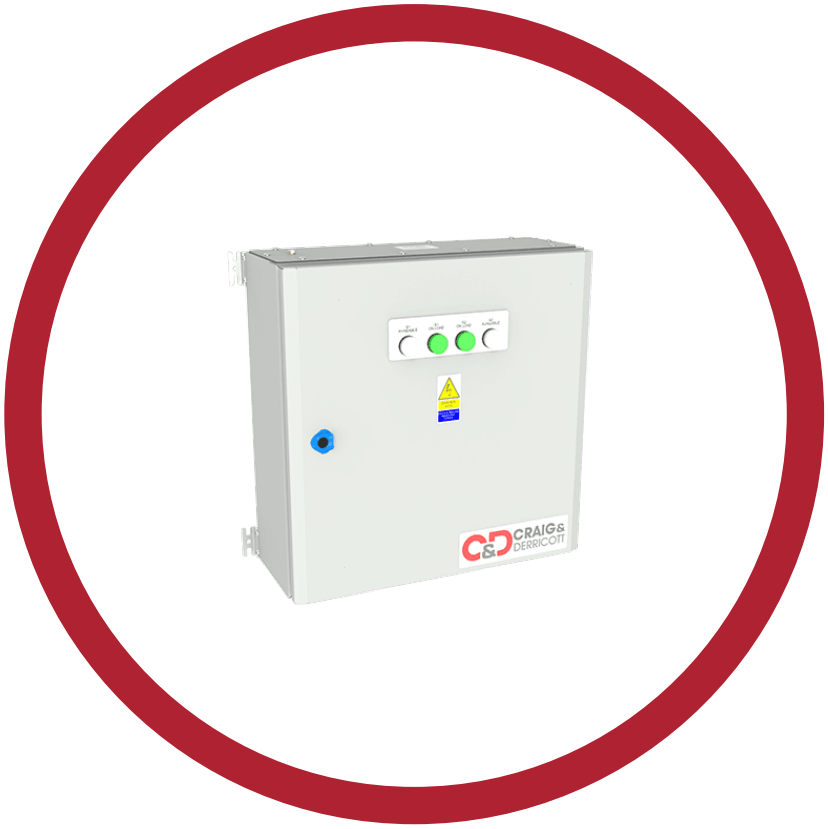
SPN: ATS6302E640 | TPN: ATS6304E640

630A *
2000mm x 1600mm x 500mm - IP55
Max Cable Size 2 x 240mm² - Top Entry

* *Requires HI-AB Delivery. This is a chargeable service.*

Standard Motorised Form 3 ATS

This range of Form 3 motorised automatic transfer switches are rated from 32A to 630A. These can be supplied in SPN (230V) and TPN (400V) AC 50/60Hz variants. Our ATS units are designed to allow safe automatic transfer of loads from a primary supply to a standby generator or secondary power supply.



Specification Detail

Each ATS comes standard with the following:

- LED status display and keypad – for ATS configuration.
- Lock off actuator for downstream maintenance.
- AC33B utilisation category.
- Generator Stop / Start delay functionality.
- Modbus communication.
- BMS connectivity.
- Aux power supply option 24V DC.
- Incoming isolators & outgoing terminals.
- Volt free status relays, mimic and Modbus terminals for easy connection.

Each ATS is supplied in (RAL 7035) sheet steel enclosure with removable gland plates, offering up to IP65 protection degree from dust and water ingress.

Applied Standards: EN60947-6-1 PC type, BS EN/IEC 61439-2, BS EN/IEC 60947-3, BS EN/IEC 60529.

To ensure longevity of your C&D ATS, it is strongly recommended that the correct enclosure material is selected for your application. For instance, mild steel IP55/ IP65 may not provide adequate protection when exposed to challenging weather conditions. C&D strongly recommends consideration of a stainless-steel or GRP enclosure and an anti-condensation kit in these circumstances.

These can be configured to suit your application. Bespoke configurations are available, e.g. larger ratings, top entry, different paint colours, stainless steel, anti condensation kit.

Standard Motorised Form 3 ATS

Catalogue Numbers

SPN: ATS0322E500 | TPN: ATS0324E500

32A
600mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS0452E500 | TPN: ATS0454E500

45A
600mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS0632E500 | TPN: ATS0634E500

63A
600mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS0802E500 | TPN: ATS0804E500

80A
600mm x 600mm x 300mm - IP65
Max Cable Size 35mm² - Bottom Entry

SPN: ATS1002E500 | TPN: ATS1004E500

100A
600mm x 600mm x 300mm - IP65
Max Cable Size 50mm² - Bottom Entry

SPN: ATS1252E500 | TPN: ATS1254E500

125A
600mm x 600mm x 300mm - IP65
Max Cable Size 50mm² - Bottom Entry

SPN: ATS1602E500 | TPN: ATS1604E500

160A
800mm x 600mm x 300mm - IP65
Max Cable Size 70mm² - Bottom Entry

SPN: ATS2502E500 | TPN: ATS2504E500

250A
1000mm x 800mm x 300mm - IP65
Max Cable Size 95mm² - Bottom Entry

SPN: ATS4002E500 | TPN: ATS4004E500

400A
1200mm x 1000mm x 300mm - IP55
Max Cable Size 240mm² - Bottom Entry

SPN: ATS6302E500 | TPN: ATS6304E500

630A
1200mm x 1000mm x 300mm - IP55
Max Cable Size 2 x 240mm² - Bottom Entry

Basic Motorised Type ATS

This range of basic motorised automatic transfer switches are rated from 32A to 630A. These can be supplied in SPN (230V) and TPN (400V) AC 50/60Hz variants. Our ATS units are designed to allow safe automatic transfer of loads from a primary supply to a standby generator or secondary power supply.

Specification Detail

Each ATS comes standard with the following:

- LED status display and keypad within enclosure – for ATS configuration.
- Lock off actuator for downstream maintenance.
- AC33B utilisation category.
- Generator Stop / Start delay functionality.
- Modbus communication.
- Aux power supply option 24V DC.
- ATS status is visible through a window supplied in the enclosure door.

Each ATS is supplied in (RAL 7035) sheet steel enclosure with removable gland plates, offering IP65 protection degree from dust and water ingress.

To ensure longevity of your C&D ATS, it is strongly recommended that the correct enclosure material is selected for your application. For instance, mild steel IP55/IP65 may not provide adequate protection when exposed to challenging weather conditions. C&D strongly recommends consideration of a stainless-steel or GRP enclosure and an anti-condensation kit in these circumstances.

Applied Standards: EN60947-6-1 PC type, BS EN/IEC 60529.

Basic Motorised Type ATS

Catalogue Numbers

SPN: ATS0322E000 | TPN: ATS0324E000

32A
400mm x 400mm x 200mm - IP65
Max Cable Size 35mm² - Top & Bottom Entry

SPN: ATS0452E000 | TPN: ATS0454E000

45A
400mm x 400mm x 200mm - IP65
Max Cable Size 35mm² - Top & Bottom Entry

SPN: ATS0632E000 | TPN: ATS0634E000

63A
400mm x 400mm x 200mm - IP65
Max Cable Size 35mm² - Top & Bottom Entry

SPN: ATS0802E000 | TPN: ATS0804E000

80A
400mm x 400mm x 200mm - IP65
Max Cable Size 35mm² - Top & Bottom Entry

SPN: ATS1002E000 | TPN: ATS1004E000

100A
400mm x 400mm x 200mm - IP65
Max Cable Size 35mm² - Top & Bottom Entry

SPN: ATS1252E000 | TPN: ATS1254E000

125A
500mm x 500mm x 200mm - IP65
Max Cable Size 35mm² - Top & Bottom Entry

SPN: ATS1602E000 | TPN: ATS1604E000

160A
600mm x 600mm x 300mm - IP65
Max Cable Size 95mm² - Top & Bottom Entry

SPN: ATS2502E000 | TPN: ATS2504E000

250A
800mm x 600mm x 300mm - IP65
Max Cable Size 95mm² - Top & Bottom Entry

SPN: ATS4002E000 | TPN: ATS4004E000

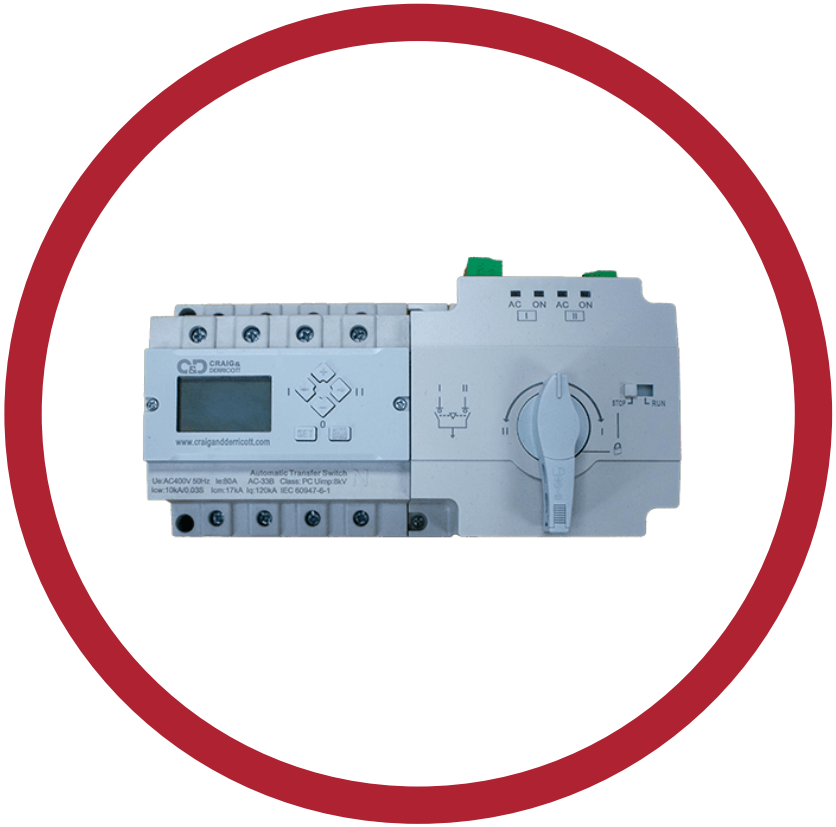
400A
1000mm x 600mm x 300mm - IP65
Max Cable Size 2 x 240mm² - Top & Bottom Entry

SPN: ATS6302E000 | TPN: ATS6304E000

630A
1000mm x 600mm x 300mm - IP65
Max Cable Size 2 x 240mm² - Top & Bottom Entry

Panel ATS

This range of motorised panel automatic transfer switches are rated from 32A to 630A. These can be supplied in SPN (230V) and TPN (400V) AC 50/60Hz variants. Our ATS units are designed to allow safe automatic transfer of loads from a primary supply to a standby generator or secondary power supply.



Specification Detail

Each panel ATS switch comes standard with the following:

- LED status display and keypad – for ATS configuration.
- Lock off actuator for downstream maintenance.
- AC33B utilisation category.
- Generator Stop / Start delay functionality.
- Modbus communication.
- Aux power supply option 24V DC.

Applied Standards: EN60947-6-1 PC type.

Accessories

Remote display module

Terminal Shroud

Catalogue Numbers

SPN: ATS0802E | TPN: ATS0804E

32-80A
230mm x 125mm x 130mm
Max Cable Size 25mm²
Mounting CRS 212mm x 100mm | Hole Dia. M4

SPN: ATS1252E | TPN: ATS1254E

100-125A
245mm x 130mm x 122mm
Max Cable Size 35mm²
Mounting CRS 230mm x 113mm | Hole Dia. M4

SPN: ATS2502E | TPN: ATS2504E

160-250A
295mm x 175mm x 175mm
Max Cable Size 95mm²
Mounting CRS 275mm x 152mm | Hole Dia. M6

SPN: AT S6302E | TPN: ATS6304E

400-630A
430mm x 272mm x 228mm
Max Cable Size 2 x 240mm²
Mounting CRS 400mm x 240mm | Hole Dia. M6

ATSDISPE/80

REMOTE DISPLAY MODULE
112mm x 48mm x 35mm
Suitable for up to 80A ATS Unit

ATSDISPE

REMOTE DISPLAY MODULE
133mm x 66mm x 35mm
Suitable for 125A-630A ATS Unit

TERMINAL SHROUD

ATS125SE

Suitable for ATS1252E / ATS1254E

ATS250SE

Suitable for ATS2502E / ATS2504E

ATS630SE

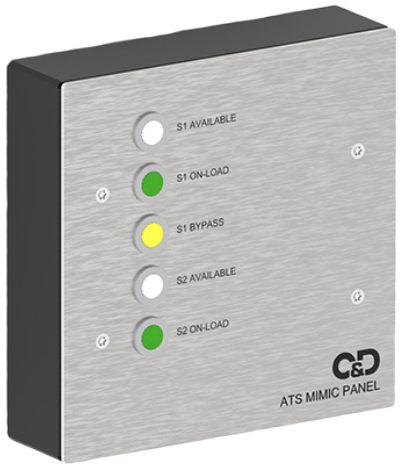
Suitable for ATS6302E / ATS6304E

ATS Mimic Panels

Available to support the ATS units, we offer a range of remote status indication panels. These units are normally installed local to the buildings point of entry allowing for an instant visual status of the ATS. Each unit is supplied with a brushed stainless steel (grade 304) face plate, that can either be flushed mounted to a 6/8way grid switch back box or provided with our surface mounting aluminium IP65 back box. Applied standards: BS EN/IEC 61439-2, BS EN/IEC 60529, BS9999, BS9991.

Standard ATS

ATS with Single Line Bypass



ATS with Dual Line Bypass

Catalogue Numbers

Standard ATS

Cat. No - ATSIP0
Encl. Size - 156mm x 156mm x 45mm
Brushed Stainless Steel Faceplate
No back box
Max cable size - 2.5mm²

Standard ATS with back box

Cat. No - ATSIP0B0
Encl. Size - 156mm x 156mm x 45mm
Brushed Stainless Steel Faceplate
Aluminium Back Box | Black RAL 9005
Max cable size - 2.5mm² | IP Rating -IP65

ATS with Single Line Bypass

Cat. No - ATSIP1
Encl. Size - 156mm x 156mm x 45mm
Brushed Stainless Steel Faceplate
No back box
Max cable size - 2.5mm²

ATS with Single Line Bypass with back box

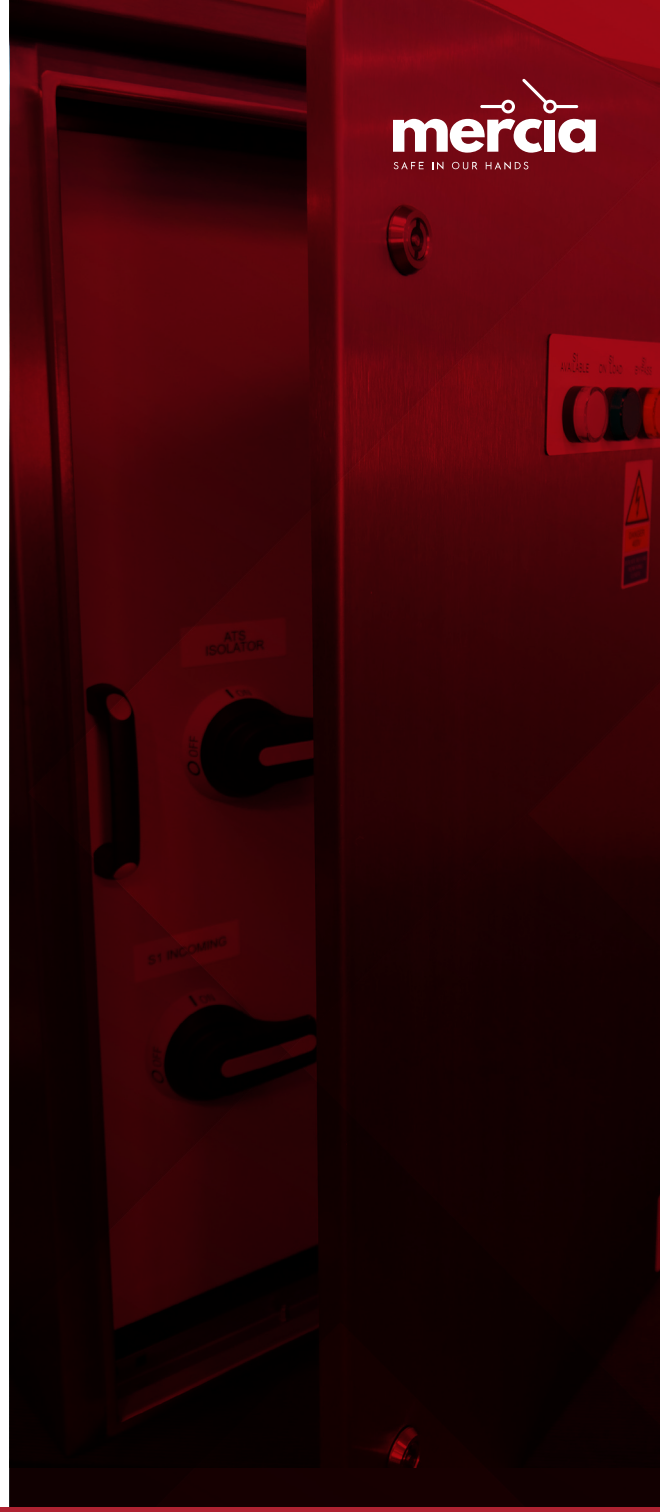
Cat. No - ATSIP1B0
Encl. Size - 156mm x 156mm x 45mm
Brushed Stainless Steel Faceplate
Aluminium Back Box | Black RAL 9005
Max cable size - 2.5mm² | IP Rating -IP65

ATS with Dual Line Bypass

Cat. No - ATSIP2
Encl. Size - 156mm x 156mm x 45mm
Brushed Stainless Steel Faceplate
No back box
Max cable size - 2.5mm²

ATS with Dual Line Bypass with back box

Cat. No - ATSIP2B0
Encl. Size - 156mm x 156mm x 45mm
Brushed Stainless Steel Faceplate
Aluminium Back Box | Black RAL 9005
Max cable size - 2.5mm² | IP Rating -IP65



ATS Multi-Way Mimic Panels

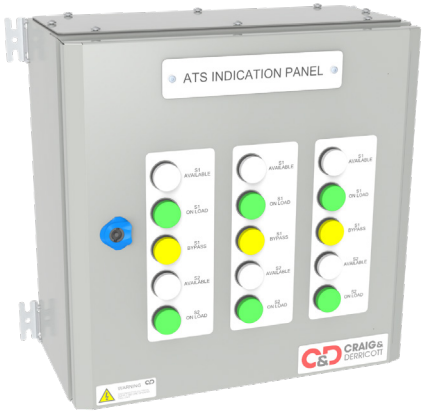
To allow convenient and continuous monitoring of our ATS products we offer a range of multi-way remote status indication panels. These units are normally installed local to the buildings point of entry or in the building control room, allowing for an instant visual status of the ATS. Each unit is supplied in a (RAL 7035) sheet steel enclosure with removable gland plates, offering up to IP65 protection degree.

Enhanced Visibility & Monitoring

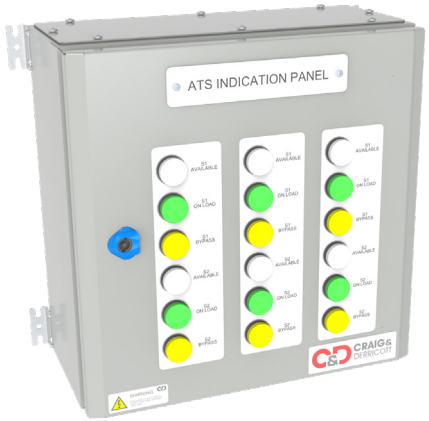
- Provides a real-time view of power supply status and ATS operation.
- Enables quick identification of power source changes or faults.
- Ideal for control rooms and entrance areas for easy supervision.
- Supports compliance with safety protocols in power-critical environments

STANDARD (ST) CONFIG

SINGLE LINE (SL) CONFIG



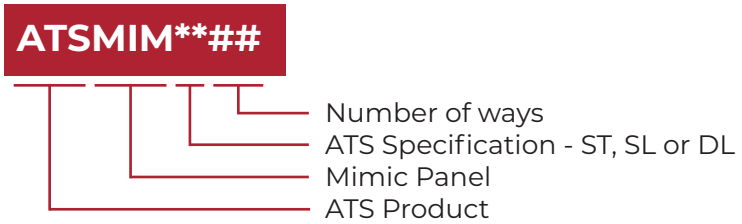
DUAL LINE (DL) CONFIG



Specification Detail

Each Mimic panel comes as standard with the following:

- Multicolour LED status indication – Real time visibility of the power supply status and the ATS operation.
- IP rated Enclosure.
- Seamless integration with our standard ATS ranges
- Straightforward, installation with a direct connection to the ATS, ensuring quick and hassle-free setup



C&D Mimic Panels can be customised to match your specific requirements and labelling conventions. Contact the C&D sales team for more information or to request a quotation.

Applied Standards: BS EN/IEC 61439-2, BS EN/IEC 60529, BS9999.

Catalogue Numbers

1-Way Mimic Panel		
400mmx400mmx200mm – IP65 Max Cable Size 2.5mm² - Top & Bottom entry		
ATSMIMST01	ATSMIMSL01	ATSMIMDL01

2-Way Mimic Panel		
400mmx400mmx200mm – IP65 Max Cable Size 2.5mm² - Top & Bottom entry		
ATSMIMST02	ATSMIMSL02	ATSMIMDL02

3-Way Mimic Panel		
400mmx400mmx200mm – IP65 Max Cable Size 2.5mm² - Top & Bottom entry		
ATSMIMST03	ATSMIMSL03	ATSMIMDL03

4-Way Mimic Panel		
600mmx400mmx200mm – IP65 Max Cable Size 2.5mm² - Top & Bottom entry		
ATSMIMST04	ATSMIMSL04	ATSMIMDL04

5-Way Mimic Panel		
800mmx400mmx200mm – IP65 Max Cable Size 2.5mm² - Top & Bottom entry		
ATSMIMST05	ATSMIMSL05	ATSMIMDL05

6-Way Mimic Panel		
800mmx400mmx200mm – IP65 Max Cable Size 2.5mm² - Top & Bottom entry		
ATSMIMST06	ATSMIMSL06	ATSMIMDL06

Need more than 6 ways? We can accommodate any number of ways you need. Let our sales team member know your requirement.

Options

Extension Boxes

Our range of extension boxes are designed to provide additional space for incoming cables, ensuring a more organised and efficient installation. Perfect for environments where cable management is crucial, these extension boxes offer flexibility, allowing you to easily accommodate larger or multiple cable entries without compromising the performance or integrity of your system. With durable construction and a streamlined design, our extension boxes help optimise your setup, making it easier to manage complex installations and maintain a clean, professional appearance.

Horizontal ATS

Our versatile Automatic Transfer Switch (ATS) products now offer enhanced flexibility with the option to reconfigure all vertical units for horizontal mounting. Ideal for applications with space constraints or specific installation requirements, this design allows you to customise the placement of the incoming supply, choosing whether it is positioned to the left or right of the unit. This tailored approach ensures optimal fit and functionality, making it easier to integrate ATS solutions into your environment, no matter the layout or design limitations.

SPDs

Protect your critical systems with our Automatic Transfer Switch (ATS) products, now available with integrated surge protection. Designed to safeguard the ATS components from voltage spikes and electrical surges, this protection is essential for ensuring the reliability and longevity of your equipment, particularly in life safety systems where continuous operation is paramount.
In addition to securing the ATS, we also offer Surge Protection Device (SPD) assemblies for load protection, delivering comprehensive protection for your entire system.

Enclosure options

As standard, our ATS product is supplied in an IP65 mild steel grey (RAL7035) paint enclosure. Each enclosure comes standard with a removeable gland plate top and bottom. Other enclosure materials such as stainless steel (Grade 304 & 316) & GRP are available on request.

Rain Hoods

Designed to provide superior weather protection for ATS assemblies intended for outdoor installation. These durable, corrosion-resistant covers shield against rain, dust, and harsh environmental conditions, ensuring long-term reliability. To maintain a secure and effective fit, our rain hoods must be specified at the time of ordering, as they are integrated into the assembly during manufacturing and cannot be retrofitted to existing units. For more details on available options, contact our team today.

Bespoke Colour Options

Our standard range of Automatic Transfer Switch (ATS) products is supplied in RAL 7035 Grey or RAL 3020 Red, providing a durable and professional finish. However, we also offer custom colour options, including Signal Yellow, White Cream, Jet Black. Whether for safety, branding, or site-specific requirements, we can provide an ATS solution that meets your exact colour needs without compromising on quality or performance.

Stainless Steel

We also offer our range of Automatic Switch (ATS) products in both grade 304 and 316 Stainless Steel enclosures, providing superior durability and corrosion resistance for use in external or harsh environments. Ideal for applications exposed to challenging weather conditions, industrial settings, or locations requiring enhanced protection. As standard, all stainless steel ATSs come with an anti-condensation heater, thermostat, and breather valve to maintain a stable environment within.

ATS Service Offering

C&D are pleased to offer a variety of on-site services for Automatic Transfer Switches (ATS). To ensure the necessary compliance with the Testing requirements for BSEN8519 2020, BSEN9999 & BG70 2021 Life Safety. Alongside the IEC60947-6-1 standard which applies to Transfer switching equipment. These C&D Services include but are not limited to the following.

ATS Initial Visual Inspection

This will result in a detailed report and if required a quote for further recommended remedial works, regular servicing or repairs. Any ATS out with warranty will require this as a Prerequisite to annual service.

ATS Training to meet the Testing requirements for BSEN8519 2020, BSEN9999 2017 , B59991 2024 & BG70 2021 Life safety

C&D will train competent persons so they can undertake the quarterly testing required by the standards. This can be provided free of charge, only if time allows this to be undertaken on the same day as a chargeable visit. Otherwise, the standard day-rate would apply.

1, 3 and 5 Year Service Contracts

As required annually for BSEN8519 2020, BSEN9999: 2017 & BG70 2021 Life Safety Standards. Available for ATS still within C&D warranty or serviced by C&D within the past year. This will result in a detailed report and if required a quote for further recommended works, regular servicing or repairs.

An initial inspection will need to be performed before a service contract can be taken.

Note 1: These services relate only to C&D manufactured ATS. Other manufacturers ATS will be considered but in these cases, we will need full information on the other product/s; Manufacturer, Model Number, Manufacturer's Instructions, Wiring schematic, Application, Date of Installation and any other relevant and available information.

Note 2: Insulation testing: Where possible and applicable C&D will carry out Phase to Earth insulation testing on the three phases and neutral. Where any ATS product pre-dates the BSEN8519 2020, BSEN9999 & BG70 2021 life safety standards, or does not comply with the standards (for example no by-pass has been provided), for safety reasons C&D will not carry out any insulation testing – as doing so would leave any associated and connected equipment inoperable during the test, this would represent an unacceptable safety risk. In these cases, C&D very strongly recommends that the installed ATS are brought up to the full requirements of the life safety standards.

Note 3: Where the C&D service activity may cause a disruption to supply this will only be carried out with the signed agreement of the building occupier/owner.

Note 4: If the C&D service activity cannot be completed within a single day, any works carried over to the second day will be chargeable at the full day rate.

Note 5: ATS servicing is still required during warranty period to comply with regulations.

Operational and Maintenance Protocols for ATS

Automatic Transfer Switches (ATS) play a crucial role in ensuring the safety, reliability, and legal compliance of power systems, especially in life-critical and high-occupancy buildings. Proper maintenance and servicing of ATS units are essential for meeting UK legislative requirements, enhancing system reliability, and protecting occupants.

Key Standards & Legislative Obligations

1. Electricity at Work Regulations (EAWR) 1989

Regulation 4(2) requires the maintenance of electrical systems to prevent potential dangers. Given the critical role of ATS in life-safety applications, the absence of maintenance can result in severe safety hazards. Duty holders are responsible for assessing risks related to ATS equipment and implementing adequate inspection and maintenance routines to mitigate hazards.

2. Health and Safety at Work Act 1974

This Act mandates risk assessment and safe system maintenance. ATS systems, integral to life-safety equipment (e.g. fire alarms, emergency lighting), fall under this Act's scope. Facility managers must maintain ATS functionality to ensure emergency systems operate as expected.

3. Regulatory Reform (Fire Safety) Order 2005

Under this Order, the responsible person must ensure all fire safety-related equipment (including ATS), are maintained and in effective working order. This requirement, which applies when ATS supports fire alarms or emergency lighting, aims to safeguard building occupants by guaranteeing the reliability of critical systems during emergencies.

Relevant Standards & Codes of Practice

BS EN 60947-6-1: Governs ATS performance, emphasizing safe switching between power sources and insulation protection.

BS 7671 (IET Wiring Regulations): Establishes installation and maintenance standards for ATS systems, promoting regular inspection and testing to ensure reliable emergency power.

BS 5839-1: Highlights the need for uninterrupted power to fire detection and alarm systems, underscoring ATS maintenance.

BS 9999:2017 & BS 9991:2024 (Fire Safety Code of Practice): Recommends ATS testing frequencies, such as weekly lift switch checks and monthly generator load tests, to ensure readiness.

BG 70/2021 – Life Safety and Firefighting Power Supplies: Stresses the importance of ATS systems for reliable power in life-safety systems, ensuring critical functions like fire pumps and evacuation lifts are operational during emergencies.

Recommended Maintenance Protocols for Reliable Operation

Monthly Inspection

Visual Inspection: Look for physical wear, overheating, cable integrity, and any moisture or water ingress.

Mechanical Operation: Confirm smooth transition between primary and secondary positions.

Quarterly Maintenance

Visual Inspection: Repeat checks for physical wear, overheating, cable integrity, and moisture.

Internal Cleanliness: Remove dust and ensure components are dry.

Switch Testing: Verify seamless transition between power sources.

Terminal Checks: Check for corrosion, with annual torque verification.

Annual Servicing

Full Load Testing: Simulate a power failure to confirm transfer reliability to backup power sources.

Electrical Testing: Conduct insulation resistance and contact resistance tests.

Software/Firmware Updates: For programmable ATS units, verify control system updates for optimal reliability.

Record keeping

Maintaining detailed records of all inspections, maintenance activities, and testing is critical. Keeping documentation for a minimum of three years is essential for compliance audits and valuable for troubleshooting.

The Importance of Routine Maintenance

ATS systems are often safety-critical, particularly in settings like hospitals, emergency response centres, and high-occupancy buildings. Neglecting maintenance can lead to system failure during an emergency, creating serious safety hazards and potential legal liability under the Electricity at Work Regulations, Health and Safety at Work Act and Regulatory Reform (Fire Safety) Order. Regular testing, inspection, and maintenance not only extend the life of ATS units but ensure continuous compliance with British standards and regulations.

Conclusion

Routine maintenance is particularly important for ATS systems in high-stakes environments such as hospitals and emergency response centres. Neglecting maintenance increases the risk of failure during emergencies, presenting safety hazards and potential legal liabilities under UK regulations. Regular inspection and maintenance not only extend the life of ATS units but ensure compliance with British standards and reinforce system reliability in life-safety applications.

Craig & Derricott Ltd offers comprehensive ATS servicing, inspection, testing, and service contracts, helping clients maintain ATS reliability and meet UK safety standards. Their expertise in life-safety ATS maintenance supports compliance and operational safety across a range of applications.

ATS Commissioning

Craig & Derricott offer an optional commissioning service on all of our Automatic Transfer Switches (ATS).

We will provide a level of testing that will allow you to feel confident that each C&D ATS unit is working and capable of maintaining a fully operational state during its working life.

Full commissioning service reporting

All Craig & Derricott commissioning services include a detailed report for your peace of mind (and possibly for your insurance), which will be provided within 14 days of the completed commissioning of your Automatic Transfer Switches.

The commissioning service includes but is not limited to:

- BMS Contact Check/ volt free signal test
- Phase Rotation Check
- LED Illumination Check
- Operational Check
- Continuity Test
- Manual Changeover Test
- Automatic Changeover Test

All ATS equipment tested and registered with C&D will qualify for a 2 year extended warranty offer on the units. The 2-year warranty will commence from the date of commissioning if this date is within 12 months of the date of despatch.

Scan the QR code to contact Jen Bratt
for more information

Technical Data

Application	Sym	Unit	32A-80A	100A-125A	160A-250A	400A-630A
No. Of Poles			2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4
Rated Working Current	I_e	A	32, 45, 63, 80	100, 125	160, 250	400, 630
Rated Working Voltage	U_e	V	AC400V/415V 50Hz			
Rated Insulation Voltage	U_i	V	690			
Rated Impulse Withstand Voltage	U_{imp}	kV	8			
Utilization Category			AC33B			
Rated Short Time Withstand Current (0.2s)	I_{cw}	kA	10	10	10	25
Rated Short Time Making Capacity	I_{cm}	kA Peak	15	20	30	50
Rated Control Voltage	U_s	V	AC230V 50Hz			
Contact Transfer Time	Seconds		0.6±10%	0.6±10%	1.0±10%	1.5±10%
Transfer Time	Seconds		1.2±10%	1.25±10%	2.1±10%	3.3±10%
Recovery Transfer Time	Seconds		(1.2+Time Delay) ±10%	(1.25+Time Delay) ±10%	(2.1+Time Delay) ±10%	(3.3+Time Delay) ±10%
Power Off Duration	Seconds		(0.6±20%)+ (Time Delay ±10%)	(0.6±20%)+(Time Delay ±10%)	(1.0+Time Delay)±10%	(1.5+Time Delay)±10%
Operational Cycles	Without Load		8500	8500	7000	3000
	With Load		1500	1500	1000	1000
	Total		10000	10000	8000	4000
Switch Dimension		mm	230x125x130	245x130x122	295x175x175	430x272x228
Weight		kg	2.5	4.3	9	22.5
Terminal Type						

Functionality

Control Voltage	AC230V 50/60Hz
Aux. Power	DC24V
Power Consumption	≤10W
Status Position	3 working positions of 'Main (I) Closing', 'Standby (II) Closing' & 'Double Off (O)'
Operation Mode	Auto Mode, Manual Operation, Control Panel Operation, Remote Operation, Rs485 Communication
Transfer Mode	Auto Transfer, Auto Recovery/Auto Transfer, No Auto Recovery
Display Mode	LED/LCD
Source 1 Monitoring	Under voltage, over voltage, power loss monitoring (A, B & C phase)
Source 2 Monitoring	Under voltage, over voltage, power loss monitoring (A, B & C phase)
Generator Control	Yes (Gen Start and Stop)
Fire-Linkage Control	One group voltage-free signal to cut off both power, and 1 group voltage-free feedback
Frequency Monitoring	±20% Adjustable
Generator Test	Yes
Transfer Delay Timer (s)	Default 5s, 0~180s (Adjustable)
Recovery Delay Timer (s)	Default 5s, 0~180s (Adjustable)
Under Voltage Range	Default 187V, 154~198V Adjustable
Over Voltage Range	Default 263V, 242~330V Adjustable
Source Priority	Source 1 Priority (Default), Source 2 Priority, No Priority
Rs485 Communication	Yes

Example ATS selection form | Contact us for further information

CUSTOMER NAME :-						
PROJECT REFERENCE :-						
CURRENT RATING	32A ☐	63A ☐	125A ☐	200A ☐	400A ☐	800A ☐
	45A ☐	100A ☐	160A ☐	250A ☐	630A ☐	
VOLTAGE / NUMBER OF POLES	230V ☐	SP&N ☐		Other (please specify)		
	400V ☐	TP&N ☐				
CABLE ENTRY	BOTTOM ☐	TOP ☐				
MAINTENANCE BYPASS	SINGLE LINE ☐	DUAL LINE ☐	NOT REQUIRED ☐			
INSTALLATION LOCATION	i.e. Riser cupboard, indoors or; On roof, under canopy etc.					
LIFE SAFETY	Does the specification refer to BS8519:2020 or is the ATS for life safety loads such as Fire-fighting Lifts, Smoke Extract Fans or Sprinkler Pumps?					
SPECIFIC LOAD REQUIREMENTS	i.e. Does the load have a stall current rating? Is the load a regenerative drive lift? Etc.					
OTHER REQUIREMENTS	i.e. Modbus comms, surge suppressor, unusual cable sizes etc.					

Contact us

Can’t find what you’re looking for in this brochure?

Contact our ATS technical team and discuss your requirements with us today.

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Additional notes

Make the **switch**

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