



AUTOMATIC TRANSFER SWITCHES



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ABOUT Us

Established in 1978, Fuji-Haya Electric Corp. of the Philippines has become the biggest manufacturer of electrical distribution and control equipment such as Panelboards, Switchgears, Meter Centers for the commercial building market.

In this span of over 4 decades, Fuji-Haya Electric has gained the trust of many customers through its highly reliable and durable equipment.

The Fuji-Haya Electric AION Energy Meters is another example of this reliability and durability and comes with built in Modbus connectivity and dual tariff capabilities and are Philippine ERC approved and listed.

The Fuji-Haya Electric Sfera 720C Power Monitor Meter performs measurement of various electrical characteristics that are essential to the safe and informed operation of Switchgears. The Fuji-Haya Electric Sfera 720C is also Philippine ERC approved and listed.

Complementing these meters are Fuji-Haya Electric AION Current Transformers manufactured in full compliance with IEC 61869-1, IEC 61869-2



SELECTION GUIDE

AION BTN

This ATS switch uses miniature circuit breakers as its actuating element and is equipped with a new control mechanism used for transferring between two sources automatically. It is recommended for tenant load such as **residential** and **condominiums** where MCB up to 125A ATS is needed. When alternate power is available, the AION BTN contact transfer time is <2s.

BREAKER TYPE



AION BTS

This ATS switch for higher amperage uses molded case circuit breakers as its actuating element and is also equipped with a new control mechanism used for transferring between two sources automatically. It is recommended for **condominiums, offices** and **malls** where MCCB up to 1200A ATS is needed. When alternate power is available the AION BTS series contact transfer time is <4s.



AION 5S

This new type of ATS is used for commercial and non-critical change-over applications such as **condominiums, mall** and **office tenants**. It senses available source between the two supplies choosing normal as the priority. When alternate power is available, the AION 5S series contact transfer time is <5s.



AION 5S PLUS

The AION 5S PLUS is also used for commercial and non-critical change-over applications such as **condominium, mall** and **office loads** with includes additional features such as switch and recover delays. When alternate power is available, the AION 5S PLUS series contact transfer time is <5s.



AION UTS

The AION UTS are newly developed household power transfer switches. It is specially designed for home track TV installation and is specially used for Pz30 distribution box. AION UTS are suitable for emergency power system 400V, 60A with AC rated current of 50V or 60Hz. It is widely used in various occasions where continuous power failure is not allowed. It can be operated electrically or manually by ATS and the controller.



CHANGE OVER TYPE

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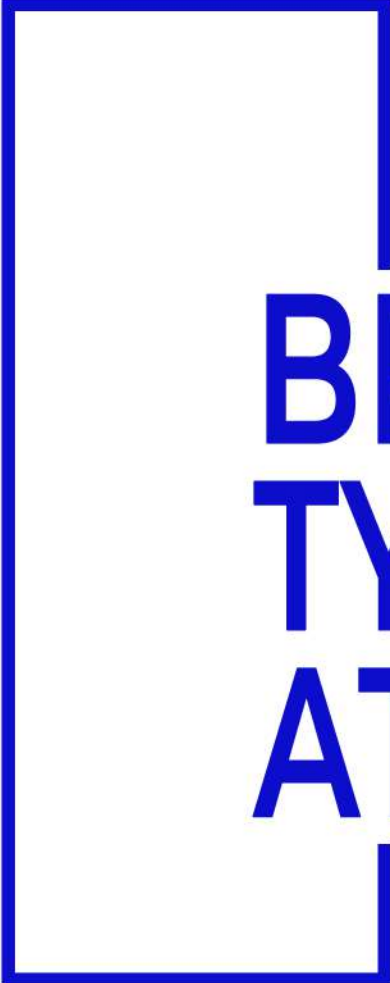
AION 5S

AION 5S PLUS

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AION UTS



BREAKER TYPE ATS

AION BTN

Automatic Transfer Switch
Miniature Circuit Breaker
2P, 3P, 4P (1-125A)



Features

Up to 125A

<2s Contact Transfer Time

With electrical and mechanical interlock mechanism for safe operation

IEC60974-6-1 / IEC60947-1-2004

3 Position : I-O-II

With Manual Switching Operation

Breaker short-circuit interrupting capacity matching customer requirements.

Technical Data

Specifications

| |
|--------------------------|
| Poles |
| Rated Current |
| Rated Working Voltage |
| Rated Insulation Voltage |
| Rated Impulse Voltage |
| Rated Control Voltage |
| Frequency |
| Contact Transfer Time |
| Mechanical Durability |
| Electrical Durability |
| Function |

Ratings

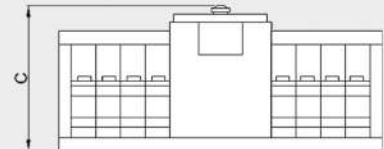
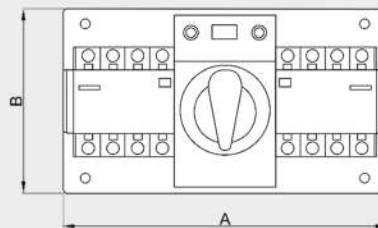
| |
|------------|
| 2P, 3P, 4P |
| 1-125A |
| 400VAC |
| 690VAC |
| 4kVAC |
| 220VAC |
| 50 / 60Hz |
| <2s |
| 6000 Times |
| 1500 Times |

Short-Circuit Protection, Over-Load Protection, Loss-Voltage Protection

Dimensions

| Pole | A | B | C |
|------|-----|-----|-----|
| 2P | 180 | 157 | 122 |
| 3P | 192 | 157 | 122 |
| 4P | 220 | 157 | 122 |

Note : Unit expressed in millimeter (mm)



Ordering Code

| Code | Poles | Ampacity | Remarks |
|----------|-------|----------|--------------------------|
| BTN2P63 | 2P | 63A | Applicable to 1A - 63A |
| BTN3P63 | 3P | 63A | Applicable to 1A - 63A |
| BTN4P63 | 4P | 63A | Applicable to 1A - 63A |
| BTN2P125 | 2P | 125A | Applicable to 80A - 125A |
| BTN3P125 | 3P | 125A | Applicable to 80A - 125A |
| BTN4P125 | 4P | 125A | Applicable to 80A - 125A |

AION BTS

Automatic Transfer Switch
Molded Case Circuit Breaker
2P, 3P, 4P (15-1200A)



Features

| | |
|---|---|
| Up to 1200A | 3 Position : I-O-II |
| <4s Contact Transfer Time | With Manual Switching Operation |
| With electrical and mechanical interlock mechanism for safe operation | Breaker short-circuit interrupting capacity matching customer requirements. |
| High Amperage Capacity | IEC60974-6-1 / IEC60947-1-2004 |

Technical Data

Specifications

| |
|--------------------------|
| Poles |
| Rated Current |
| Rated Working Voltage |
| Rated Insulation Voltage |
| Rated Impulse Voltage |
| Rated Control Voltage |
| Frequency |
| Contact Transfer Time |
| Mechanical Durability |
| Electrical Durability |
| Function |

Ratings

| |
|---|
| 2P, 3P, 4P |
| 15 - 1200A |
| 400VAC |
| 690VAC |
| 6kVAC |
| 220VAC |
| 50 / 60Hz |
| <4s |
| 6000 Times |
| 1500 Times |
| Short-Circuit Protection,Over-Load Protection,Loss-Voltage Protection |

Dimensions

| Type | L | | L1 | | W | | W1 | | H |
|--------|------|-----|------|-----|------|-----|------|-----|-----|
| | 2/3P | 4P | 2/3P | 4P | 2/3P | 4P | 2/3P | 4P | |
| 100AF | 342 | 372 | 260 | 290 | 215 | 215 | 198 | 198 | 111 |
| 250AF | 380 | 415 | 298 | 335 | 228 | 228 | 208 | 208 | 132 |
| 400AF | 475 | 522 | 405 | 455 | 335 | 335 | 305 | 305 | 180 |
| 800AF | 670 | 728 | 602 | 658 | 350 | 350 | 320 | 320 | 190 |
| 1000AF | 710 | 780 | 680 | 740 | 370 | 370 | 340 | 340 | 225 |
| 1200AF | 710 | 780 | 680 | 740 | 370 | 370 | 340 | 340 | 225 |

Note : Unit expressed in millimeter (mm)

Ordering Code

| Code | Poles | Ampacity | Remarks |
|-----------|-------|----------|---|
| BTS3P100 | 2P/3P | 100A | Applicable to 15A - 100A |
| BTS4P100 | 4P | 100A | Applicable to 15A - 100A |
| BTS3P250 | 2P/3P | 250A | Applicable to 125A,150A,175A,200A,225A,250A |
| BTS4P250 | 4P | 250A | Applicable to 125A,150A,175A,200A,225A,250A |
| BTS3P400 | 2P/3P | 400A | Applicable to 300A,350A,400A |
| BTS4P400 | 4P | 400A | Applicable to 300A,350A,400A |
| BTS3P630 | 2P/3P | 630A | Applicable to 500A,630A |
| BTS4P630 | 4P | 630A | Applicable to 500A,630A |
| BTS3P800 | 2P/3P | 800A | Applicable to 700A,800A |
| BTS4P800 | 4P | 800A | Applicable to 700A,800A |
| BTS3P1250 | 3P | 1250A | Applicable to 1000A,1200A |
| BTS4P1250 | 4P | 1250A | Applicable to 1000A,1200A |



CHANGE OVER ATS

AION 5S

Automatic Transfer Switch
Economic (Residential)
4P (40-800A), 400V



Features

| | |
|--|---|
| Up to 800A | 3 Position : I-O-II |
| <5s Contact Transfer Time | With Manual Switching Operation |
| Recommended for Residential Dwelling Units | Compact size : 224mm x 122 x 83mm(125A) |
| IEC60974-6-1 / IEC60947-1:2004 | |

Technical Data

| Specifications | 125A | 250A | 630A | 800A |
|------------------------------------|-----------------------------|------------------|--------------------------|------------|
| Rated Insulation Voltage | 690V | | | |
| Rated Impulse Voltage | 8kV | | | |
| Rated Working Voltage | 400V | | | |
| Rated Operating Current | 40A, 63A, 80A, 100A 125A | 160A, 200A, 250A | 315A, 400A, 500A 630A | 700A, 800A |
| Rated Short Time Withstand Current | 10kA | 10kA | 12.6kA | 16kA |
| Contact Transfer Time | <5s | | | |
| Control Supply Voltage | AC220V | | | |
| Durability | 10000 | 10000 | 5000 | 5000 |

Dimensions

| Ampere Size | A | B | C | D |
|-------------|-----|-----|-----|-----|
| 125A | 224 | 122 | 119 | 83 |
| 250A | 300 | 153 | 168 | 122 |
| 630A | 432 | 257 | 328 | 195 |
| 800A | 432 | 257 | 328 | 195 |

Note : Unit expressed in millimeter (mm)

Ordering Code

| Code | Poles | Ampacity | Code | Poles | Ampacity |
|---------|-------|----------|---------|-------|----------|
| 5S4P40 | 4P | 40A | 5S4P250 | 4P | 250A |
| 5S4P63 | 4P | 63A | 5S4P315 | 4P | 315A |
| 5S4P80 | 4P | 80A | 5S4P400 | 4P | 400A |
| 5S4P100 | 4P | 100A | 5S4P500 | 4P | 500A |
| 5S4P125 | 4P | 125A | 5S4P630 | 4P | 630A |
| 5S4P160 | 4P | 160A | 5S4P700 | 4P | 700A |
| 5S4P200 | 4P | 200A | 5S4P800 | 4P | 800A |

AION 5S PLUS

Automatic Transfer Switch
Economic (Residential)
4P (40-800A), 400V



Features

| | |
|--------------------------------------|--|
| Up to 400A Capability | 3 Position : I-O-II |
| <5s Contact Transfer Time | With Manual Switching Operation |
| Adjustable transfer and return delay | Recommended for Residential Dwelling Units |
| IEC60974-6-1 / IEC60947-1:2004 | |

Technical Data

| Specifications | 63A | 100A | 200A | 250A | 400A |
|------------------------------------|----------|------|--------------------|------|------------|
| Rated Insulation Voltage | 690V | | | | |
| Rated Impulse Voltage | 8kV | | | | |
| Rated Operating Voltage | 400V | | | | |
| Rated Operating Current | 32A, 63A | 100A | 125A, 160A 200A | 250A | 320A, 400A |
| Rated Short Time Withstand Current | 5kA | 5kA | 10kA | 10kA | 10kA |
| Contact Transfer Time | <5s | | | | |
| Control Supply Voltage | AC220V | | | | |
| Durability | 6000 | 6000 | 6000 | 6000 | 4000 |

Dimensions

| Ampere Size | A | B | C | D |
|-------------|-----|-----|-----|-----|
| 63A | 330 | 120 | 174 | 65 |
| 100A | 330 | 120 | 205 | 65 |
| 200A | 370 | 145 | 205 | 95 |
| 250A | 370 | 145 | 230 | 95 |
| 400A | 400 | 190 | 230 | 125 |

Note : Unit expressed in millimeter (mm)

Ordering Code

| Code | Poles | Ampacity | Code | Poles | Ampacity |
|----------|-------|----------|----------|-------|----------|
| 5SP4P32 | 3P,4P | 32A | 5SP4P200 | 3P,4P | 250A |
| 5SP4P63 | 3P,4P | 63A | 5SP4P250 | 3P,4P | 315A |
| 5SP4P100 | 3P,4P | 100A | 5SP4P320 | 3P,4P | 400A |
| 5SP4P125 | 3P,4P | 125A | 5SP4P400 | 3P,4P | 500A |
| 5SP4P160 | 3P,4P | 160A | | | |

AION UTS

Automatic Transfer Switch



Model Description

AION UTS - 100/2P

Number of Poles: 2P (Two Poles)
4P (Four Poles)

Rated Current: 20, 32A, 40, 50, 63, 80, 100A

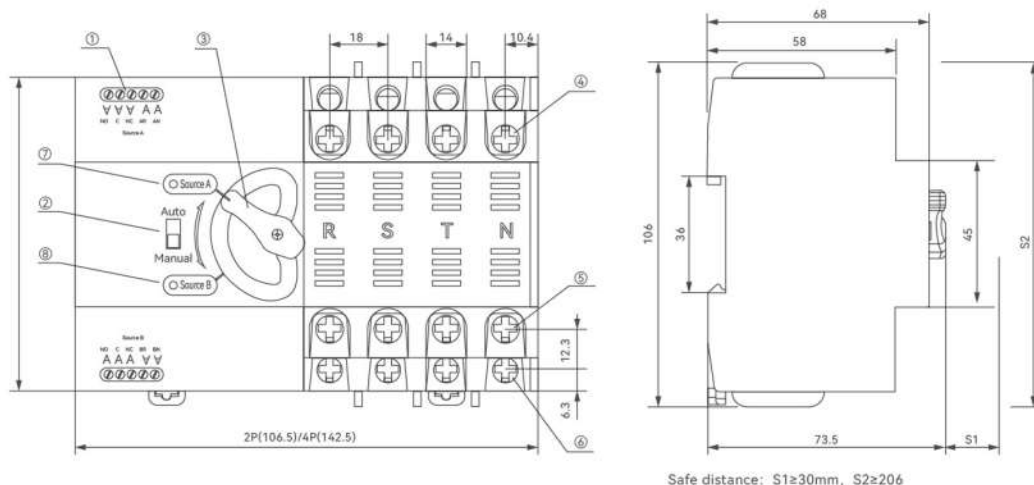
Model Type

Fuji-Haya ATS Brand

The main technical parameters

| Model | AION UTS | |
|--|--|------------|
| Rated current A | 20 32 40 50 63 | 80 100 |
| Insulation voltage Ui | AC 690V | |
| Rated voltage Ue | 2P: AC230V | 4P: AC400V |
| Grade | Grade PC:able to male and withstand,not to break short-circuit current | |
| Use Category | AC-33iB | |
| Pole | 2P | 4P |
| Weight(kg) | 0.68 | 0.91 |
| Life | Electrical:2000times; Mechanical:5000times | |
| Rated conditional short circuit current Iq | 50kA | |
| Rated impulse withstand voltage | 50kA | |
| Control Circuit | Rated control voltage Us:AC230V 60Hz Correct working condition 85%Us-110%Us | |
| Auxiliary circuit | AC230V / 60Hz | |
| Contact transfer time | <50ms | |
| Operating transfer time | <50ms | |
| Return transfer time | <50ms | |
| Off-time | <50ms | |
| Temperature range | -5°C ~+40°C average temperature not more than 35°C in 24 hours | |

Dimensions



① Control power

② Selection switch(Auto/manual)

③ manual knob

④ Source A terminal side

⑤ Source B terminal side

⑥ Load side main circuit terminal

⑦ Source A indicator

⑧ Source B indicator



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