## AUTHORIZED DEALER \& DISTRIBUTORS

Address :- Shop No. 17, Opp. Electric Crematorium, 66/74 Chandan Wadi, Marine Lines (E), Mumbai - 400002
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## ASCO - Automatic Transfer Switches

Power available always when you need it

[^0]
## ASCO 7000 SERIES IEC Medium Voltage Power Transfer Switch wew

ASCO Transfer Switches improve power availability by enabling automatic transfer between sources. The ASCO 7000 SERIES Medium Voltage Automatic Transfer Switch offers various configurations and switching modes(delayed and closed transition) to meet unique application needs and conforms to the IEC 62271-200 standard. Its standard configuration includes PIX RoF Cubicle sections, Normal Source Circuit Breaker section, Emergency Source Circuit Breaker section, and Load feeder section, all operated by ASCO's intelligent Group 5 controller for reliable transfer between sources.


## Ordering Information of ASCO 7000 SERIES Medium Voltage Automatic Transfer Switch

|  | E | $+$ | + |  | A | C |  | T |  | P |  |  |  | $+3+1250+$ |  | $+9$ |  | + | $5+$ |  | X + |  | L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | terrupting Rating |  | Product SERIES | Operation Type |  | Transition Type |  | Construction |  | Device Type |  | Neutral Code |  | Poles | Amperes | Voltage |  | Controller |  | Accessories |  | Enclosures |  |
| A | $25 \mathrm{kAIC}$ $31.5 \mathrm{kAIC}$ | 7 | $\begin{gathered} 7000 \\ \text { SERIES } \end{gathered}$ | A | Automatic | C D | Closed <br> Delayed | T | Transfer Switch | P | PIX RoF IEC <br> Dual CB <br> Transfer Switch | 0 | None | 3 | $\begin{aligned} & 0630 \\ & 0800 \\ & 1250 \\ & 2000 \\ & 2500 \end{aligned}$ | 3 <br> 6 <br> 7 <br> $V$ <br> $V$ <br> 9 <br> 0 | $\begin{gathered} \hline 3300 \mathrm{~V} \\ 6600 \mathrm{~V} \\ 7200 \mathrm{~V} \\ 11000 \mathrm{~V} \\ 13800 \mathrm{~V} \\ \text { Other } \end{gathered}$ | 5 | $\begin{gathered} \text { Group } \\ 5 \end{gathered}$ | 0 <br> $\times$ | None <br> Per Acc\# | L | IP4X |

Contact your local representative for availability of other Voltages

| Medium Voltage Transfer Switch Specifications |  | Additional Features |
| :---: | :---: | :---: |
| Voltage Class | 12 kV or 17.5 kV | - ASCO 7000 Series Group 5 |
| Nominal System Voltage | $3.3 \mathrm{kV}, 6.6 \mathrm{kV}, 7.2 \mathrm{kV}, 11 \mathrm{kV}, 13.8 \mathrm{kV}$ | Controller |
| Ampacity Rating | 630A, 800A, 1250A, 2000A, 2500A | ansition Type: Delayed or Closed |
| Number of Sections | 3 |  |
| IEC 62271-200 | Yes | - Automatic with Manual Operation |
| Internal Arc Classification (IAC) | Default: AFLR Up to 31.5kA for 0.1 second; Optional: AFLR Up to 31.5 kA for 1 second (Accessory 138AC) | - Contacts for source acceptability. (18B \& 18G) |
| Cable Entry | Bottom Default; Top Optional (Accessory 138*) | - LED Indication of source status |
| Draw Out Circuit Breakers | Yes | ut contact for disconnecting |
| Automatic Shutters | Yes |  |
| Coating - Powder Coated Polyester | Color RAL 9003 |  |
| Enclosure Rating | IP4X (Indoor) | Thermostat controlled heater |
| Protective Relays | Optional (Accessories 118PE and 118PN) |  |
| Ethernet/Serial Communications | Optional (Accessory 72EE2) | ndensation control |
| Power Metering | Optional (Accessory 135L) | - Air Insulated PIX RoF Switchgear |
| Top Cable Entry | $\begin{aligned} & \text { Optional (Accessories 138CL, 138CN, } \\ & 138 \mathrm{CE} \text { ) } \end{aligned}$ | Cubicles with EasyPact EXE breakers |
| Surge Protection | Optional (Accessories 73MV1 and 73MV2) | tegrated earthing solution for |
| Operating Conditions | Ambient Temp -5C to +40 C ; <br> Relative Humidity over a 24 hour period $<95 \%$, over a 1 month period $<90 \%$; Installation altitude above sea level < 1000 m* | cables and busbars through interlocked earthing switch <br> - Segregated controls <br> - Convenience light and outlet in low voltage compartments. |

*Note: Contact Sales representative for derating options outside of published operating conditions.
 without interrupting power to the load

- Transfer switch and bypass transfer switch have identical electrical ratings
- Range: 150 to 4000A
- Draw-out design allows for easy transfer switch maintenance
- Open Transition (OTTS), Closed Transition (CTTS) and Delayed Transition (DTTS) Designs


## Series 7000/300, Automatic Transfer Switch (ASCO)

7000/300 Series Power Transfer Switches are available in open and enclosed variants, ranging from 30 to 4000 amps (LV) \& 1200 to 3000A (MV) with wide range of accessories. All switching configurations (OTTS, DTTS, CTTS) are available with optional integrated bypass-isolation switch.


Open/Closed/Delayed Transition with Bypass


Open/Closed/Delayed Transition Switch


## Series 7000/300, Automatic Transfer Switch (ASCO)



- Conforming to UL 1008
- Fast \& Consistent Transfer (Less than 100 ms )
- Single Solenoid True Double throw Design
- High Withstanding \& Closing-On Fault Currents (WCR)
- Neutral Overlap to eliminate Voltage Transients
- In-Phase Monitor to avoid Motor Inrush current
- Engine Start/Stop, AMF Logic \& Time Delay Setting
- Programmable Daily/Weekly Engine Exerciser
- 4 Line LCD + LED Display
- 99 Events Log \& Diagnostics with Date/Time
- Statistical ATS System Monitoring Information
- Communication Compatible (Modbus/Ethernet)
- 2P, 3P \& 4P with solid neutral/Switched Neutral are available
- ATS with stand alone Type Tested NEMA Enclosure available
- For Series 7000 Close Transition, Bypass Option \& Medium Voltage ATS offer please contact Customer Care Centre


## WOTPC, Automatic transfer switch

- Conforming to IEC 60947-6-1
- Solenoid operated, Built-in Microprocessor Controller
- 1000-4000 Amps in same compact frame
- Utilization Category: AC 33A
- Mechanical Endurance: 20,000 ops
- Rated Short circuit withstand of 65 kA , 3 sec
- Built in RS 485 port for communication


| Rating (amps) | Poles | Reference | Unit MRP [₹] | Poles | Reference | Unit MRP [₹] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1000 | 3 P | OT10003D5VI | On Request | 4 P | OT10004D5VI | On Request |
| 1250 | 3P | OT12503D5VI | On Request | 4 P | OT12504D5VI | On Request |
| 1600 | 3 P | OT16003D5VI | On Request | 4 P | OT16004D5VI] | On Request |
| 2000 | 3 P | OT20003D5VI | On Request | 4 P | OT20004D5VI凹 | On Request |
| 2500 | 3 P | OT25003D5VI | On Request | 4 P | OT25004D5VI] | On Request |
| 3200 | 3 P | OT32003D5I | On Request | 4 P | OT32004D51] | On Request |
| 4000 | 3 P | OT40003D51 | On Request | 4 P | OT40004D5 | On Request |

*above references are with vertical termination, for horizontal terminal please contact customer care

## WOTPC Accessories



The transfer switch connects to the controller through extention harness. The controller automatically transfers between the utility and backup source.

| Description | Reference | Unit MRP [₹] |
| :---: | :---: | :---: |
| Phase Partition (Each) | W00T00011 | On Request |
| Extension Harness (4m) | W00T00021 | On Request |
| Copper bar for Vertical Wiring | W0OT00031 | On Request |

## Ecost truxure <br> Innovation At Every Level

## Advanced transfer switch to maximize



- Optimize panel space by up to $30 \%$, saving cost and improving efficiency
- Ultra fast transfer speed for better power availability
- Solenoid operated, Built-in icroprocessor Controller
- Robust design
- Utilization Category: AC 33A/B
- Poles: 3,4
- Scalable with plug and play - 10 function modules
- Connectivity with compliant to cyber security standard IEC 62443, SL1 Level


## TransferPacT Active Automatic



TransferPacT is an Ecostruxure-ready advance transfer switch to maximize reliability and uptime for your facility.

- Conforming to IEC 60947-6-1
- Solenoid operated, Built-in Microprocessor Controller
- Fast transfer time of $<500 \mathrm{~ms}$
- 2,3 and 4 Pole configuration ranging within 32-800A
- Three position, Open transition transfer switch
- Extreme Environment proof with operating temperature of -25 to $70^{\circ} \mathrm{C}$
- Utilization Category: AC 33A/B
- Tested for Total Discrimination with ComPacT NSXm Circuit breakers for seamless integration.
- Scalable with plug and play - 10 function modules
- Connectivity with compliance to cyber security standard IEC 62443, SL1 Level

| Frame |  |  | TA10 |  |  |  | TA16 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rating (amps) | Poles* | Reference | Unit MRP [₹] | Poles* | Reference | Unit MRP [₹] | Poles* | Reference | Unit MRP [₹] |
| 32 | 2P | TA10D2L0323TPE | On Request | 4P | TA10D4L0324TPE | On Request | - | - | - |
| 40 | 2P | TA10D2L0403TPE | On Request | 4P | TA10D4L0404TPE | On Request | - | - | - |
| 50 | 2 P | TA10D2L0503TPE | On Request | 4 P | TA10D4L0504TPE | On Request | - | - | - |
| 63 | 2 P | TA10D2L0633TPE | On Request | 4 P | TA10D4L0634TPE | On Request | - | - | - |
| 80 | 2P | TA10D2L0803TPE | On Request | 4P | TA10D4L0804TPE | On Request | 4P | TA16D4L0804TPE | On Request |
| 100 | 2P | TA10D2L1003TPE | On Request | 4 P | TA10D4L1004TPE | On Request | 4 P | TA16D4L1004TPE | On Request |
| 125 |  | - | - | - | - | - | 4 P | TA16D4L1254TPE | On Request |
| 160 |  | - | - | - | - | - | 4 P | TA16D4L1604TPE | On Request |

*For 3P ATS, please contact Customer Care Centre.

| Frame |  | TA25 |  |  | TA63 |  |  | TA80 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rating (amps) | Poles* | Reference | Unit MRP [₹] | Poles* | Reference | Unit MRP [₹] | Poles* | Reference | Unit MRP [₹] |
| 200 | 4 P | TA25D4L2004TPE | On Request | - |  | - | - | - | - |
| 250 | 4 P | TA25D4L2504TPE | On Request | - |  | - | - | - | - |
| 320 |  | - | - | 4 P | TA63D4L3204TPE | On Request | - | - | - |
| 400 |  | - | - | 4 P | TA63D4L4004TPE | On Request | - | - | - |
| 500 |  | - | - | 4 P | TA63D4L5004TPE | On Request | - | - | - |
| 630 |  | - | - | 4 P | TA63D4L6304TPE | On Request | - | - | - |
| 800 |  | - | - | - |  | - | 4P | TA80D4L8004TPE | On Request |

*For 3P ATS, please contact Customer Care Centre.

## TransferPacT Active Automatic

TransferPacT Active Automatic
Accessories

| 12 HMI cable | External HMI <br> Function Module | TransferPacT Active Automatic is designed to provide maximum scalability with plug and play function modules (no increase in the footprint) and intuitive external HMI. |  |
| :---: | :---: | :---: | :---: |
| Accessory Type | Description | Reference | Unit MRP [₹] |
| Communication function modules | Modbus RTU (Serial Port) | TPCCOM16 | On Request |
|  | BUS extension and 24 Vdc auxiliary supply | TPCDIO15 | On Request |
| Fire Protection function modules | Fire protection,24VDC pulse | TPCDIO10 | On Request |
|  | Fire protection,24VDC constant | TPCDIO11 | On Request |
|  | Fire protection,230VAC constant | TPCDIO13 | On Request |
|  | Fire protection, dry contact | TPCDIO14 | On Request |
| Control and Signalling function modules | Genset start and Alarm | TPCDIO17 | On Request |
|  | Load shedding and Availability warning | TPCDIO05 | On Request |
|  | Transfer inhibit and Remote testing | TPCDIO07 | On Request |
|  | Voluntary Remote Control | TPCDIO08 | On Request |
| Display Modules | External HMI | TPCCIF04 | On Request |
|  | LCD display | TPCCIF01 | On Request |
|  | Rotary display | TPCCIF02 | On Request |
|  | IP54 cover | TPCOTH37 | On Request |

*For more details on accessories, please contact Customer Care Centre.

Circuit Breaker/Transfer Switching Equipment Coordination
Upstream: ComPacT NSXm
Downstream: TransferPacT TA10, TA16
Ue: $\leq 440$ V AC


[^1]
## TransferPacT Active <br> Coordination Table

## Automatic

Circuit Breaker/Transfer Switching Equipment Coordination
Upstream: ComPacT NSX100-250
Downstream: TransferPacT TA10, TA16
Ue: $\leq 440$ V AC


For details on non-standard references, technical parameters, stockable and non-stockable status, please contact Customer Care Centre.

- NORMAL STOCK ITEMS


## WATSN (ATS and RTS)

WATSN is a Compact , Easy and Scalable Transfer Switch for safe and reliable source management.

- Conforming to IEC 60947-6-1
- Automatic and Remote Transfer switches
- Three Position, Open Transition Transfer Switch
- 2,3,4 pole configurations ranging within 63 -630A
- Fast Transfer Speed of $<100 \mathrm{~ms}$
- Solenoid operated, Built-in Microprocessor Controller(for ATS)
- Reduced size and footprint upto 30\%
- Tested for Total Discrimination with EasyPacT CVS Circuit breakers for seamless integration in the power train.

- Utilization Category: AC 33B


## WATSN Automatic Transfer Switch

| Rating (amps) | Poles | Reference | Unit MRP [₹] | Poles | Reference | Unit MRP [₹] | Poles | Reference | Unit MRP [₹] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 63 | 2P | NA00632V | 39430 | 3 P | NA00633V | 40690 | 4 P | NA00634V 区 | 42500 |
| 100 | 2P | NA01002V | 49640 | 3 P | NA01003V | 51190 | 4 P | NA01004V ■ | 53270 |
| 160 | 2P | N2A01602V | 75800 | 3 P | N2A01603V | 77790 | 4 P | N2A01604V ■ | 81400 |
| 250 | - | - | - | 3P | NA02503V | 143900 | 4P | NA02504V 『 | 152440 |
| 400 | - | - | - | 3 P | NA04003V | 244200 | 4 P | NA04004V - | 267820 |
| 630 | - | - | - | 3 P | NA06303V | 308710 | 4 P | NA06304V ■ | 321080 |

## WATSN Remote Transfer Switch

| Rating (amps) | Poles | Reference | Unit MRP [₹] | Poles | Reference | Unit MRP [₹] | Poles | Reference | Unit MRP [₹] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 63 | 2P | NR00632 | On Request | 3 P | NR00633 | On Request | 4 P | NR00634 | On Request |
| 100 | 2P | NR01002 | On Request | 3 P | NR01003 | On Request | 4P | NR01004 | On Request |
| 160 | 2P | N2R01602 | On Request | 3 P | N2R01603 | On Request | 4 P | N2R01604 | On Request |
| 250 | 2P | - | - | 3 P | NR02503 | On Request | 4 P | NR02504 | On Request |
| 400 | 2P | - | - | 3 P | NR04003 | On Request | 4 P | NR04004 | On Request |
| 630 | 2P | - | - | 3 P | NR06303 | On Request | 4 P | NR06304 | On Request |

## WATSN Accessories



Function Module


T-Helper

| Accessory Type | Description | Reference | Unit MRP [₹] |
| :---: | :---: | :---: | :---: |
| Fire Protection function modules | DC24V Constant voltage fire linkage | NF001 | On Request |
|  | DC24V Pulse fire linkage | NF002 | On Request |
|  | AC220V Constant voltage fire linkage | NF003 | On Request |
|  | AC220V Pulse fire linkage | NF004 | On Request |
|  | Passive fire linkage | NF005 | On Request |
| Control and Signalling function modules | Genset control module | NF006 | On Request |
|  | Genset contro\&\&Communication module | NF008 | On Request |
|  | Remote control to S2 | NF012 | On Request |
| Communcation accessories | Modbus communication module with RS485 interface | NF007 | On Request |
|  | T-Helper Operation and maintenance Helper | NF028 | On Request |

*For more details on accessories, please contact Customer Care Centre.
For details on non-standard references, technical parameters, stockable and non-stockable status, please contact Customer Care Centre.

Class PC transfer switch
Circuit-breaker / Transfer Switch Equipment coordination

Complementary technical informations Ue <=415 VAC
Load side

| Load side |  | TSE | WATSN |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Rating | 100 | 160 | 250 | 630 |
|  |  | Ith (A) $40^{\circ} \mathrm{C}$ | 100 | 160 | 250 | 630 |
|  |  | Iow (kA) | 5 | 10 | 10 | 12 |
|  |  | Icm (kAp) | 7.65 | 17 | 17 | 25 |
| Supply side | Icu (kA) |  |  |  |  |  |
| Circuit breaker: | 415 V | Ir | TSE conditionnal short-circuit current and related making capacity: |  |  |  |
| CVS100B | 25 |  | 5 | T | T | T |
| CVS160B | 25 |  |  | T | T | T |
| CVS250B | 25 |  |  |  | T | T |
| CVS100F | 36 |  | 5 | 25 | 25 | T |
| CVS160F | 36 |  |  | 25 | 25 | T |
| CVS250F | 36 |  |  |  | 25 | T |
| CVS400F | 36 |  |  |  |  | 36 |
| CVS630F | 36 |  |  |  |  | 36 |
| CVS100N | 50 |  | 5 | 25 | 25 | T |
| CVS160N | 50 |  |  | 25 | 25 | T |
| CVS250N | 50 |  |  |  | 25 | T |
| CVS400N/H | 50/70 |  |  |  |  | 36 |
| CVS630N/H | 50/70 |  |  |  |  | 36 |

$\square$ Transfer Switch Equipment is Totally coordinated up to Icu of circuit breaker installed on supply side.

## VRAJ LINK

House of Changeover \& Automatic transfer switch
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AUTHORISED DISTRIBUTORS


[^0]:    ASCO Power Technologies is your one stop solution for Transfer Switch solutions to improve power availability by transferring electrical loads to alternate sources of power. Whether you require uninterrupted power supply for critical operations or simply keep the lights on, we have you covered.

[^1]:    

    Protection of the Transfer Switching Equipment is ensured but combination not very relevant
    T $\quad$ Transfer Switching Equipment is totally coordinated up to the Icu of the circuit breaker installed on supply side
    36/75
    Transfer Switching Equipment is protected up to 36 kA rms / 75 kA peak
    $\square$ : Protection of the Transfer Switching Equipment is not ensured.

