## CATALOG

## Zenith ZTX series Automatic Transfer Switches

For ZTX series ATS, 30-1200 A, 200-480 Vac

$\oplus$

- Easy to Install and Commission
- Continuous Operation


# Powered by TruONE™ technology, 

 Zenith ZTX series automatic transfer switches incorporate switch and controller in one seamless, self-contained unit, reducing the number of wires and connections. This design saves room in the enclosure and minimizes the potential for connection failures. In addition, the design incorporates modular components to reduce downtime and service costs.
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## Zenith ZTX series <br> Continuous power. Non stop innovation.



## Easy to Install and Commission

Start up in minutes, not hours.

The new Zenith ZTX series weighs up to $30 \%$ less than comparable ATS models but has up to $25 \%$ more wire-bending space, making it especially easy for contractors to install.

Once sources are connected, an innovative auto-configure function via the HMI sets electrical system parameters in seconds. Because of TruONE ${ }^{\text {TM }}$ technology, no additional control wiring or troubleshooting is required on-site. And any programming changes can be done from the HMI with a few keystrokes, making commissioning quick and painless.


## Continuous Operation

Minimize unplanned outages.

Zenith ATS solutions are tested to last up to 6,000 cycles. Based on 10 transfers per month, that's 50 years of reliable operation! If things ever do go wrong, all critical modules are customerreplaceable to simplify service and significantly reduce downtime and service costs. Say goodbye to losing the lights or closing business due to an unplanned outage.

## Zenith ZTX series

Continuous power. Non stop innovation.

## A Bin $^{3}$


|ZENITHZTX

# More advantages. Greater power security. 



## Speed Up Your Project

Now you can speed up your project even more, thanks to automatic commissioning capabilities. Premade configuration files can be uploaded from your PC to the controller via USB or Bluetooth, minimizing the risk of human error and reducing programming time by $80 \%$.

## Optimized Logistics

Leveraging ABB TruONE all-in-one engineering, Zenith features a wide voltage range from 200 to 480 VAC (with +/-20\% tolerance), reducing the need to stock multiple SKUs, so you can reduce inventory and save space in the warehouse.


## Integrated and Future-Ready

Not ready to make the jump to digital yet? No problem. ABB Zenith features plug-in factory and field-mount accessorizing. You'll never need extra space inside the panel for any future upgrades.

## Safety and Protection

Unlike typical ATS solutions, Zenith enables safe emergency manual operation-even under load-without opening the panel door when the HMI is mounted to the ATS frame. With controller and power supply embedded in the power panel, there are no dangerous line voltages to the door, so the risk of operator injury due to equipment malfunction is reduced.

## Affordable Range

With the right solution to match the application, ABB Zenith provides top value for your specific needs-from optional stand-by power to even the most critical uninterruptable processes-with the most comprehensive ATS portfolio on the market


Compliant with the standards you trust

- cULus (UL 1008) listed
- NFPA 70, 99, 101, and 110
- IEEE 446 and 241
- NEMA ICS 10
- Seismic (certification in process)
- IBC-2015
- IEEE-693-2005
- UL 508
- UL 50, NEMA 250, and NEMA ICS 6


## Taking ATS performance to new heights.

Bring the highest level of convenience, efficiency and critical power security to your product, project or facility.

ZTX is the superior solution for:

- Generator dealers
- Distributors

ZTX provides superior critical power security for:

- Residential buildings
- Commercial buildings
- Resorts and hospitality
- Retail environments
- And more



## Construction


3. HMI unit, type ZTX DIP
4. Slide switch (Hand-Locking-AUTO) for selection of the operation mode
5. Padlocking the automatic transfer switch to prevent automatic and manual operation
6. Handle for manual operation
7. Position indication
8. Terminals for control circuit connections (behind the cover)
9. Place for connectivity modules (aux power supply, com and signaling)
10. Place for auxiliary contact block
11. Location of product identification label
12. Programming port, only for Ekip Programming module and Ekip Connect software

## Features

## Main features in the table below.

Consult ABB for more information.


## Feature comparison

|  | ZTX Controls |
| :--- | ---: |
| Ampere sizes available | UL: 30-1200 A |
| Rated voltage | $200-480 \mathrm{Vac}$ |
| Rated frequency | $50 / 60 \mathrm{~Hz}$ |
| Phase system | Single and Three |
| Number of poles | 2,3 and 4 |


| Neutral configuration | Yes |
| :--- | :---: |

## Product type

| Open transition (I-II) | Yes |
| :--- | :---: |


| Delayed transition (I-O-II) No |
| :--- | :--- |

Voltage and frequency settings

| Pick up Voltage Source 1 | Fixed 2\% above drop out |
| :--- | ---: |
| Drop out Voltage Source 1 * | $+/-5,10,15,20 \%$ |
| Pick up Voltage Source 2 | Fixed $2 \%$ above drop out |
| Drop out Voltage Source 2 | $+/-5,10,15,20 \%$ |
| Pick up Frequency Source 1 | Fixed $1 \%$ above drop out |
| Drop out Frequency Source 1 | $+/-5,10 \%$ |
| Pick up Frequency Source 2 | Fixed $1 \%$ above drop out |
| Drop out Frequency Source 2 | $+/-5,10 \%$ |

## Time delay settings

| Override momentary Source 1 Outage, sec | $0,1,2,3,4,5,10,15,20,25,30$ |
| :--- | ---: | :--- |
| Transfer from Source 1 to Source 2, sec | Fixed 2 seconds |
| Override momentary Source 2 Outage, sec | Fixed 1,5 seconds |
| Transfer from Source 2 to Source 1, min | $0,1,2,3,4,5,10,15,20,25,30$ |
| Generator stop delay, min | 30 secs or 4 mins |
| Center-OFF delay, sec | 0 or 4 |
| Pre-transfer delay S1 to S2, sec | No |
| Post-transfer delay S1 to S2, sec | No |
| Pre-transfer delay S2 to S1, sec | No |
| Post-transfer delay S2 to S1, sec | No |
| Load shed delay, sec | No |
|  | Yes |
| Source failure detections | Yes |
| No voltage | Yes |
| Undervoltage | Yes |
| Overvoltage | Yes |
| Phase missing | Yes |
| Voltage unbalance | Yes |
| Invalid frequency |  |
| Incorrect phase sequence |  |
| Drop out voltage settings possible as low as $70 \%$ for 240V-480V systems. |  |

## Features



## -

Feature comparison

|  | ZTX controls |
| :---: | :---: |
| Features |  |
| Controls | DIP + keys |
| LED indications for ATS, S1 and S2 status | Yes |
| Open transition - Standard digital inputs/outputs | $0 / 1$ |
| Delayed transition - Standard digital inputs/outputs | 1/1 |
| Programmable digital inputs/outputs | No |
| Auto config (voltage, frequency, phase system) | Yes |
| Source priority | Source 1, No priority |
| Manual re-transfer | Yes |
| In-phase monitor (synchro check) | Yes |
| Genset exercising: on-load, off-load | Yes |
| In-built power meter module | No |
| Load shedding | No |
| Real time clock | No |
| Event log | No |
| Predictive maintenance | No |
| Voltage and current harmonics measuring | No |
|  |  |
| Field-mount accessories |  |
| Auxiliary contacts for position indication | Yes |
| Digital input/output modules | No |
| 12-24 Vdc aux supply module for controller | No |
| Communication modules | No |
|  |  |
| Connectivity capability |  |
| Modbus RTU (RS-485) | No |
| Modbus/TCP | No |
| Profibus DP | No |
| ProfiNet | No |
| DeviceNet | No |
| Ethernet IP | No |
| Monitoring via ABB Ability ${ }^{\text {™ }}$ : Energy and Asset Manager | No |
|  |  |
| For applications |  |
| Mains - Mains | Yes |
| Mains - Generator (minimum size 20kVA) | Yes |
| UL short circuit withstand ratings |  |
| Coordinated breaker WCR | Yes |

## Description of basic functionality

## Operation of time delays and corresponding relay output signals

## Example for SOURCE 1 Priority

## SOURCE 2 = Generator

The automatic switching sequence can be summarized in following steps:

- An anomaly occurs on the SOURCE 1
- Override momentary S1 outage delay
- Generator start
- SOURCE 2 OK
- Transfer from S1 to S2 delay
- Pre-transfer signal on
- Load shed signal on
- Pre-transfer S1 to S2 delay
- Load shed delay
- Transfer switch (SOURCE 1) to the position O
- Center-off delay
(only with Delayed transition I-O-II type)
- Transfer switch (SOURCE 2) to the position II
- Post-transfer S1 to S2 delay
- Pre-transfer signal off

And the re-transfer sequence can be summarized in the following steps:

- The SOURCE 1 is restored
- Transfer from S2 to S1 delay
- Pre-transfer signal on
- Pre-transfer S2 to S1 delay
- Transfer switch (SOURCE 2) to the position O
- Center-off delay (only with Delayed transition I-O-II type)
- Transfer switch (SOURCE 1) to the position I
- Load shed signal off
- Generator stop delay
- Post-transfer S2 to S1 delay
- Pre-transfer signal off
- Generator stop
- SOURCE 2 off


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## Accessories

| 16 | Ekip Programming module |
| :--- | :--- |
|  | Ekip Bluetooth wireless communication unit |

## Accessories

## Automatic transfer switches



Ekip Bluetooth wireless communication unit
Ekip Bluetooth is used for programming Zenith ZTX and it permits remote connection with the switch by laptop，tablet or smart phone on which Ekip Connect software has been installed．The device is connected to the programming port on the HMI of Zenith ZTX and it supplies the controller by means of a rechargeable Li－ion battery．

## Ekip Programming module

The Ekip Programming module is used for programming ZEAEKPPGM is a separate accessory used for programming Zenith ZTX via USB to a PC using the Ekip Connect software that can be downloaded library．abb．com．It enables both online（line power available）and offline（no line power available）programming．This accessory is required only for programming engine generator exerciser．

|  | All Pages |  |  |  |  | 8 | $\xi^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 三 | 1 Information | c Configuration | 0 |  | $\bigcirc$ Refresh | ¢ Apply |  |
| 든 Scan | s status | 汭 |  |  |  |  |  |
| 百 Devices | M Measures | system | $\wedge$ | Transter Sequence Delays |  | $\wedge$ |  |
| TruONE Touch | c Configuration | Application Rated Voltage |  | Overide S1 Falure |  | 2 s |  |
|  |  | Rated frequency |  | Transer trom S1 to S2 $\square$ |  | 55. |  |
| $\square \mathrm{All} \mathrm{pages}$ | WA Warnings and Alarms | s1 Power Distribution System | 3 Prases Without Neut．．．－ |  |  | 2s． |  |
|  | EL．Event Log | 52 Power Distribution System | 3 Phases Without Nut．－ | Center－Off |  | 0 s － |  |
|  |  | Neutral Postion | Pole 4 － | Generator 5 top |  | 0 s \％ |  |
|  | D Diagnostics | Phase Rotation | ABC－ | Pretransier 51 to 52 |  | $0 \mathrm{~s} \cdot$ |  |
|  |  | Manual Retranster | Ofill | Post－transer 51 to $52 \square$ |  | $0 \mathrm{~s} \cdot$ |  |
|  | －m－－＞Power Module |  |  | Pre－transter 52 to st |  | $0 \mathrm{~s} \cdot$ |  |
|  |  | $\bigcirc \mathrm{Operating} \mathrm{Mode}$ | $\checkmark$ | Postitranser $\mathbf{5 2}$ to $51 \square$ |  | $00^{0}$ |  |
|  | －m－－＞sensor Module | Digital Inouts | $\checkmark$ | Load Sred |  | $0 \mathrm{~s} \cdot$ |  |
|  |  | deta |  | Synchronization |  | $\checkmark$ |  |
|  |  | Digital Output | $\checkmark$ |  |  |  |  |
|  |  | Source 1 Setpoints | $\checkmark$ | Generator Exerciser |  | $\checkmark$ |  |
|  |  | Source 2 Setpoints | $\checkmark$ | Others |  | $\checkmark$ |  |
| 28 Tools |  |  |  |  |  |  |  |

## Accessories

## Automatic transfer switches

## Auxiliary contacts

Auxiliary contacts are configurable with Zenith ZTX and ZTG series automatic transfer switches. The aux contacts mount on the right side of the switch, with up to contacts available for both Source 1 and Source 2 position indication contacts total. See ordering information and technical information sections of this catalog for more information.

OA3G01

| Switch position | Main contacts | $\begin{aligned} & \text { OA1G10 } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { OA3G01 } \\ & \text { NC } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| 1 | closed | closed | open |
| 0 | open | open | closed |
| 11 | closed | open | closed |
| Function table for auxiliary contacts / Source 2 position (max. 2+2) |  |  |  |
| Switch position | Main contacts | $\begin{aligned} & \text { OA1G10 } \\ & \text { NO } \end{aligned}$ | $\begin{aligned} & \text { OA3G01 } \\ & \text { NC } \end{aligned}$ |
| I | closed | open | closed |
| 0 | open | open | closed |
| 11 | closed | closed | open |



# Ordering Information 

Zenith Loose Accessories

## Zenith ZTX ordering information

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## Part number codes

Understanding the type code keys below will help you quickly identify the correct product for your needs. The simple naming system allows you to see the products type, Ampere rating, standard classification and number of poles, all in one glance.

## Explanation of the types ZTX Series

| $\mathbf{Z}$ | $\mathbf{X}$ | $\mathbf{O}$ | $\mathbf{J}$ | $\mathbf{3}$ | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{-}$ | $\mathbf{A}$ | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{X}$ | $\mathbf{X}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |


| 1 | Zenith |
| :---: | :---: |
|  | z |
| 2 | Product Family |
| X | ZTX |
| 3 | Transition Type |
| O | Open Transition |
| 4 | Amperage |
| A | 30 Amps |
| B | 60 Amps |
| C | 100 Amps |
| D | 125 Amps |
| F | 160 Amps |
| G | 200 Amps |
| J | 260 Amps |
| K | 400 Amps |
| L | 600 Amps |
| M | 800 Amps |
| N | 1000 Amps |
| P | 1200 Amps |
| 5 | Phase |
| 1 | 1 Phase |
| 3 | 3 Phase |
| 6 | Neutral |
| S | Switched neutral |
| x | No neutral |
| B | Solid neutral bar |


| 7 | System voltage (Line to Line) |
| :--- | :--- |
| $X$ | T1 Panel - Voltage agnostic |
| 8 | Enclosure |
| 1 | Nema 1 |
| 3 | Nema 3R |
| 9 | Panel Assembly |
| 2 | Std application, Sources on Bottom |
| 10 | (open) |
| - |  |
| 11 | Aux Contacts |
| $X$ | No Aux Contacts |
| $A$ | 2 NO |
| 12 | Metering Options |
| $X$ | No meter |
| 13 | Ground Bar |
| $X$ | No ground bar, lug on cabinet |
| 14 | Lugs |
| $X$ | Mech Standard on ZTX |
| $15 / 16$ | Ekip Modules |
| $X X$ |  |
| 17 | Open |
| $X$ |  |
| $X$ |  |

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## Loose accessories

Zenith ZTX loose accessories order codes
Suitable for switches ZTX 30-1200 A, 200-480 Vac

| Type | Qty (pcs) | Order code | Weight (Ib) |
| :--- | :--- | :--- | :--- |
| Ekip Programming Module | 1 | ZEAEKPPGM | 0.44 |
| Normally Open Auxiliary Contact | 10 | OA1G10 | 0.07 |
| Normally Closed Auxiliary Contact | 10 | OA3GO1 | 0.07 |

${ }^{\text {1. Packing materials must be added to weights provided }}$


## Technical data

## Technical data

Zenith ZTX series 30-1200 A, 200-480 Vac

Zenith ZTX series technical data

|  | Zenith switch size (A) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Data according to UL1008 |  | 30 | 60 | 100 | 125 | 160 | 200 |
| Rated operational voltage | Vac | 200-480 |  |  |  |  |  |
| Operating voltage range | Vac | 160-576 |  |  |  |  |  |
| Rated frequency | Hz | 50-60 |  |  |  |  |  |
| Emergency systems - Motor loads or total system | A | 30 | 60 | 100 | 125 | 160 | 200 |
| Optional standby systems - Motor loads or total system | A | 30 | 60 | 100 | 125 | 160 | 200 |
| Short-circuit withstand/closing and short-time current ratings | kA | See table A |  |  |  |  |  |
| Contact transfer time I-II, II-I Load interrupting time | ms | <50 |  |  |  |  |  |
| Operating transfer time I-II, II-I | ms | <500 |  |  |  |  |  |
| ATS current draw during transfer / time duration | $\mathrm{A} / \mathrm{ms}$ | $35 /<110$ |  |  |  |  |  |
| Mechanical endurance No. of operating cycles |  | 6050 | 6050 | 6050 | 6050 | 6050 | 6050 |
| Suitable for applications |  | Transformer - Transformer, Transformer - Generator |  |  |  |  |  |

Zenith ZTX series technical data

|  | Zenith switch size (A) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Data according to UL1008 |  | 260 | 400 | 600 | 800 | 1000 | 1200 |
| Rated operational voltage | Vac |  |  |  | -480 |  |  |
| Operating voltage range | Vac |  |  |  | -576 |  |  |
| Rated frequency | Hz |  |  |  | -60 |  |  |
| Emergency systems - Motor loads or total system | A | 260 | 400 | 600 | 800 | 1000 | 1200 |
| Optional standby systems - Motor loads or total system | A | 260 | 400 | 600 | 800 | 1000 | 1200 |
| Short-circuit withstand/closing and short-time current ratings | kA |  |  |  | able A |  |  |
| Contact transfer time I-II, II-I Load interrupting time | ms |  |  |  | 50 |  |  |
| Operating transfer time I-II, II-I | ms |  |  |  | 500 |  |  |
| ATS current draw during transfer / time duration | $\mathrm{A} / \mathrm{ms}$ | 35/<110 |  |  | 40 / < |  |  |
| Mechanical endurance No. of operating cycles |  | 6050 | 4050 | 3050 | 3050 | 3050 | 3050 |
| Weight without accessories 2-pole switch | pounds | 29.3 | 37.2 | 37.2 |  |  |  |
| 3-pole switch | pounds | 33.9 | 42.1 | 42.1 | 68.6 | 68.6 | 68.6 |
| 4-pole switch | pounds | 38.6 | 47.2 | 47.2 | 81.1 | 81.1 | 81.1 |
| Suitable for applications |  | Transformer - Transformer, Transformer - Generator ${ }^{1)}$ |  |  |  |  |  |

${ }^{1)}$ Minimum generator size: 20kVA

## -

ZTX series Coordinated Breaker Withstand and Close-on Ratings (WCR)

| ATS Rating (A) | Max Voltage (V) | Max coordinated breaker WCR (A) | Breaker manufacturers |
| :--- | :--- | :--- | :--- |
| $30-200$ | 480 | 150000 | ABB, GE, Schneider, Eaton, Siemens |
| 260 | 480 | 200000 | ABB, GE, Schneider, Eaton, Siemens |
| 400 | 480 | 150000 | ABB, GE, Schneider, Eaton, Siemens |
| 600 | 480 | 200000 | ABB, GE, Schneider, Eaton, Siemens |
| $800-1200$ | 480 | 100000 | ABB, GE, Schneider, Eaton, Siemens |

[^1]
## Technical data

## Zenith ZTX series 30-1200 A, 200-480 Vac

## ZTX series Testing and Standards Compliance

| Description | Standard |
| :--- | :--- |
| UL, cUL listing | UL 1008 |
| Conducted and radiated emissions | CISPR 11:2009, Class A |
| ESD immunity test | IEC/EN 61000-4-2 Class B |
| Radiated RF, electromagnetic field immunity test | IEC/EN 61000-4-3 10 V/m |
| Electrical fast, transient/burst immunity test | IEC/EN 61000-4-4 |
| Surge immunity test | IEC/EN 61000-4-5 0.5 to 2 kV |
| Conducted immunity test | IEC/EN 61000-4-6 |
| Voltage dips and interruption immunity | IEC/EN 61000-4-11 |
| Harmonic voltage immunity test | IEC/EN 6100-4-13 |

ZTX series AL/CU UL Listed Solderless Screw-Type Terminals for External Power Connections

| Model | Amperage | Cables per phase \& neutral |  | Range of wire sizes |
| :--- | :--- | :--- | :--- | :--- |
|  | $30-60$ | 1 | $12-2 / 0$ AWG | $\left(3-67 \mathrm{~mm}^{2}\right)$ |
|  | $100-200$ | 1 | 6 AWG -300 kcmil | $\left(14-152 \mathrm{~mm}^{2}\right)$ |
|  | 260 | 1 | $2 \mathrm{AWG}-600 \mathrm{kcmil}$ | $\left(34-304 \mathrm{~mm}^{2}\right)$ |
|  | 400 | $1 / 2$ | $1 \times 4 \mathrm{AWG}-600 \mathrm{kcmil} / 2 \times 1 / 0-250 \mathrm{kcmil}$ | $\left(1 \times 25-304 \mathrm{~mm}^{2} / 2 \times 55-127 \mathrm{~mm}^{2}\right)$ |
|  | 600 | 2 | $2 \mathrm{AWG}-600 \mathrm{kcmil}$ | $\left(34-304 \mathrm{~mm}^{2}\right)$ |
|  | $800-1200$ | 4 | $2 \mathrm{AWG}-600 \mathrm{kcmil}$ | $\left(34-304 \mathrm{~mm}^{2}\right)$ |

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## Auxiliary contacts

Technical data for auxiliary contacts according to IEC 60947-5-1, for OA1G_, OA3G_

| AC15 |  | DC12 |  |  | DC13 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ue/[V] | Ie/[A] | Ue/[V] | Ie/[A] | P/[W] | Ie/[A] | P/[W] |
| 230 | 6 | 24 | 10 | 240 | 2 | 50 |
| 400 | 4 | 72 | 4 | 290 | 0.8 | 60 |
| 415 | 4 | 125 | 2 | 250 | 0.55 | 70 |
| 690 | 2 | 250 | 0.55 | 140 | 0.27 | 70 |
|  |  | 440 | 0.1 | 44 |  |  |



## Dimension drawings

## Dimension drawings

## 30-400A



600A


ZTX series dimensions and weights, UL Type 1 Enclosure

| Model | ATS Rating (A) | Poles | Weight ${ }^{1}$ <br> lb (kg) | Dimensions, ${ }^{2}$ in (mm) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Height (A) | Width (B) | Depth (C) |
| ZTX | 30-200 | 2 | 89 (40) | 32 (813) | 24 (610) | 12 (305) |
|  |  | 3 | 93 (42) | 32 (813) | 24 (610) | 12 (305) |
|  |  | 4 | 98 (44) | 32 (813) | 24 (610) | 12 (305) |
|  | 260 | 2 | 145 (66) | 46 (1168) | 24 (610) | 14 (356) |
|  |  | 3 | 150 (68) | 46 (1168) | 24 (610) | 14 (356) |
|  |  | 4 | 155 (70) | 46 (1168) | 24 (610) | 14 (356) |
|  | 400 | 2 | 153 (69) | 46 (1168) | 24 (610) | 14 (356) |
|  |  | 3 | 159 (72) | 46 (1168) | 24 (610) | 14 (356) |
|  |  | 4 | 290 (131) | 54 (1372) | 28 (711) | 19.5 (495) |
|  | 600 | 2 | 278 (126) | 54 (1372) | 28 (711) | 19.5 (495) |
|  |  | 3 | 284 (129) | 54 (1372) | 28 (711) | 19.5 (495) |
|  |  | 4 | 290 (131) | 54 (1372) | 28 (711) | 19.5 (495) |
|  | 800-1200 | 3 | 482 (219) | 74 (1880) | 40 (1016) | 19.5 (495) |
|  |  | 4 | 515 (234) | 74 (1880) | 40 (1016) | 19.5 (495) |
| ${ }^{1}$ Special Enclosures Type 3R, 12, 4, and 4X weights are up to 22\% greater than Type 1 Enclosures/ <br> ${ }^{2}$ Special Enclosures Type 3R, 12, 4, and 4X dimensions differ. Consult Tech Support for details. <br> ${ }^{3}$. All dimensions and weights are approximate and subject to change without notice. <br> ${ }^{4}$. Packing materials must be added to weights shown. Allow $15 \%$ additional weight for cartons, skids, crates, etc. |  |  |  |  |  |  |

## Additional information

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Inc. does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.


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[^0]:    ${ }^{1)}$ Off position included in sequence for delayed transition only

[^1]:    ${ }^{1}$ For detailed WCR ratings by ATS and breaker type, please refer to document number 1SCC303020C0201, Zenith short circuit ratings

