



# Zenith ATS

ZTS T-series Automatic Transfer Switches

30-3000 A



- Simplify your business operations
- Maximize uptime
- Plan for a safe and sustainable future



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## Zenith ZTS T-series

Continuous power. Non stop innovation.



### Simplify business operations

Business is complicated, so why not choose equipment that makes things simpler? The ZTS T-series is equipped with an intuitive full-color touchscreen HMI and is compatible with ABB-common Ekip™ Connect software to ease commissioning and operation, maximize flexibility with a wide 200-480V range and an array of standard programmable functions and IO, and finally, simplify service with unique modular components that are easier to stock and replace in the field. Whether you're an engineer, dealer, contractor, or end-user, Zenith ZTS T-series will help make your business simpler.



### Maximize uptime

Whether it's to save lives, protect key assets, or maximize efficiency, emergency and standby power systems are meant to keep the power on. But they are only as strong as the weakest link... which is why ZTS T-series is built for high performance and incorporates design elements for simple service. Taking it to the next level, this advanced ATS range takes a proactive outage mitigation approach by monitoring temperature and contact health 24/7 and alerting to any anomalies, helping to ensure power keeps flowing. Don't let your ATS be the weak link in your power system.



### Plan for a safe and sustainable future

A safer workplace not only protects personnel from injury but can also lower costs through increased productivity, quality, and employee well-being. The ZTS T-series lineup has unique advances in safety with faster switching and no line voltages connected at the door. Similarly, creating a sustainable operation is not just something owed to future generations, but a cultural shift becoming a key proposition of a successful business. ZTS leverages future proof upgradability features and ABB Ability™ Energy and Asset Manager to empower users to lower their carbon footprint. Plan for a safe and sustainable future, today.



# Zenith ATS

Greater safety, convenience and reliability

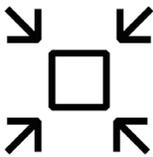


## Proactive outage prevention

- Contact wear monitoring including real-time status and predicted contact end-of-life
- Minimum 3 embedded temperature sensors
- High current protection and alarm
- 24/7 monitoring and customizable text or email alerts available with ABB Ability™ Energy and Asset Manager

**24/7**  
monitoring

Minimum  
**3**  
embedded  
temperature sensors



## Simplified service

- Mechanism replacement in as little as 10 minutes - only 3 replacement parts in the 30-1200A range.
- Quick swap HMI
- 95% fewer spare parts than legacy Zenith offering
- ABB HMI navigation and programming tool common to all ABB LV components

**95%**  
fewer spare parts

**<10 minute**  
mechanism replacement



### Easier to install, commission and operate

- Color touchscreen HMI with intuitive menu navigation, measurements display, and 250 event log
- Wide 200-480V range with auto-configuration of system settings for 30-1200A range
- Ekip Connect software helps reduce commissioning time by 50%
- Five factory programmed packages available; IO can be re-programmed in seconds

**200-480V**  
in a single design

Up to  
**50%**  
faster commissioning  
with Ekip™ Connect

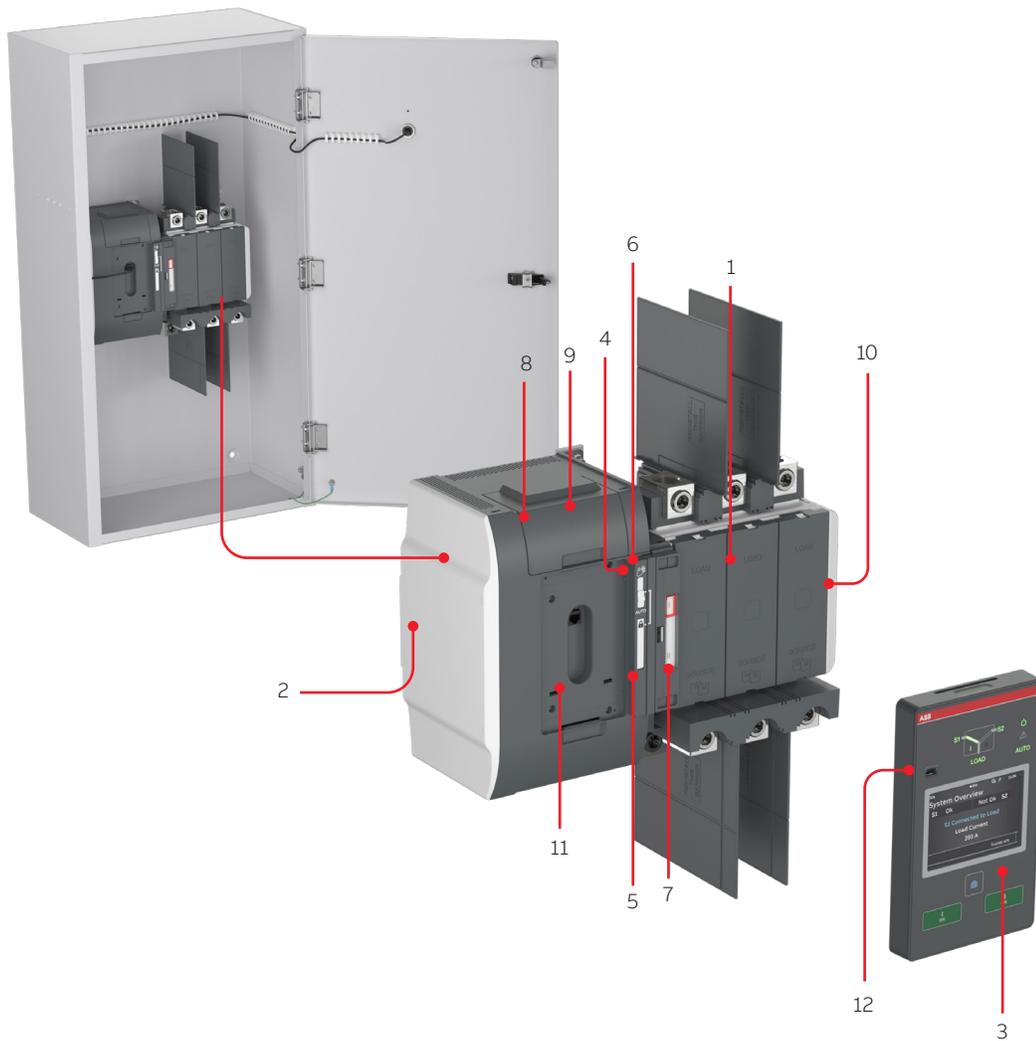


### High performance

- High time-based withstand and closing ratings (WCR) and even higher coordinated WCR, minimum of 100kA in each frame
- Short-time withstand ratings in every frame
- Fast controller response to outage recovery and fast switching (<50ms)
- Overlapping neutral on 30-1200A range

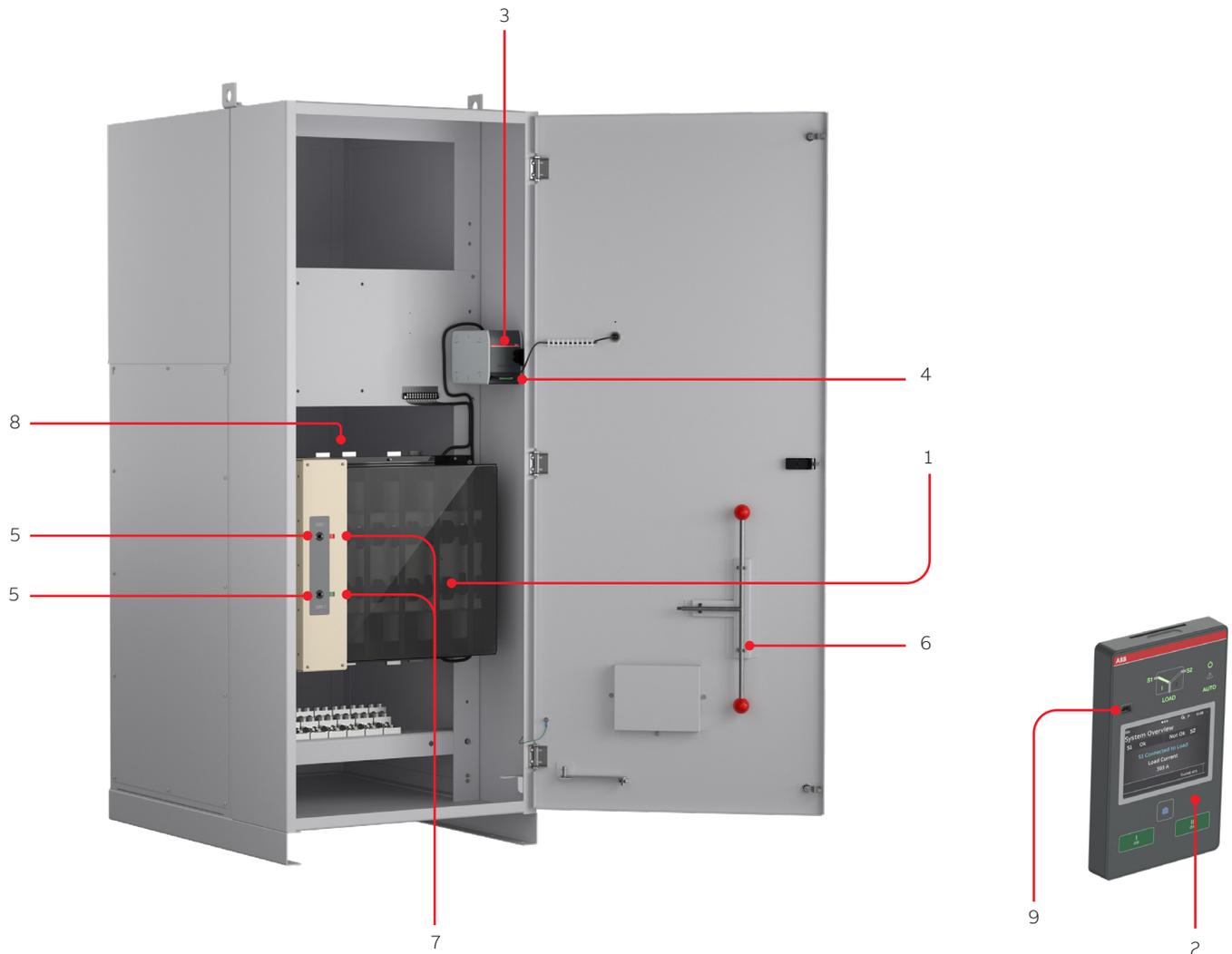
Fast switching  
**<50ms**

## Construction 30-1200A open and delayed transition



1. Automatic transfer switch
2. Embedded ATS control unit and mechanism
3. HMI unit, type ZTS color touchscreen interface
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 indicator
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, for Ekip Programming module and Ekip Connect software

# Construction 1600-3000A



Zenith ZTS 1600-3000A

1. Automatic transfer switch power panel & mechanism
2. HMI unit, type ZTS color touchscreen interface
3. TruCONTROL module
4. Place for customer control connections and connectivity modules (aux power supply, com and signaling)
5. Handle connection points for manual operation
6. Handle for manual operation
7. Position indicator
8. Phase and neutral terminal lugs, behind power panel
9. Programming port, for Ekip Programming module and Ekip Connect software

**Note:** 100-1200A closed transition designs utilize a smaller power panel construction similar to 1600-3000A

# Main features

For more information, consult ABB



	<b>ZTS Controls</b>
Ampere sizes available	UL: 30-3000 A
Rated voltage	200-480Vac
Rated frequency	50 / 60 Hz
Phase system	Single and Three
Number of poles	2, 3 and 4
<b>Neutral configuration</b>	
Switched neutral	Yes
Overlapping neutral	30-1200A only
Solid neutral	Yes
<b>Product type</b>	
Open transition (I-II)	Yes
Delayed transition (I-O-II)	Yes
Closed transition (I-O-II)	Yes
<b>Voltage and frequency settings</b>	
Pick up Voltage Source 1	71-99%, 101-119%
Drop out Voltage Source 1*	70-98%, 102-120%
Pick up Voltage Source 2	71-99%, 101-119%
Drop out Voltage Source 2*	70-98%, 102-120%
Pick up Frequency Source 1	80.5-99.5%, 100.5-119.5%
Drop out Frequency Source 1	80-99%, 101-120%
Pick up Frequency Source 2	80.5-99.5%, 100.5-119.5%
Drop out Frequency Source 2	80-99%, 101-120%
<b>Time delay settings</b>	
Override momentary Source 1 Outage, sec	0-60
Transfer from Source 1 to Source 2, sec	0-3600
Override momentary Source 2 Outage, sec	0-60
Transfer from Source 2 to Source 1, min	0-120
Generator stop delay, min	0-60
Center-OFF delay, sec	0-300
Pre-transfer delay S1 to S2, sec	0-300
Post-transfer delay S1 to S2, sec	0-300
Pre-transfer delay S2 to S1, sec	0-300
Post-transfer delay S2 to S1, sec	0-300
Elevator Pre-signal delay S1 to S2, sec	0-60
Elevator Post-signal delay S1 to S2, sec	0-60
Elevator Pre-signal delay S2 to S1, sec	0-60
Elevator Post-signal delay S2 to S1, sec	0-60
Load shed delay, sec	0-300
<b>Source failure detections</b>	
No voltage	Yes
Undervoltage	Yes
Overvoltage	Yes
Phase missing	Yes
Voltage unbalance	Yes
Invalid frequency	Yes
Incorrect phase sequence	Yes

\* Drop out voltage settings possible as low as 70% for 240V-480V systems.

# Main features

For more information, consult ABB



	<b>ZTS controls</b>
Controls	Color touchscreen
LED indications for ATS, S1 and S2 status	Yes
Programmable digital inputs/outputs	Yes
Auto config (voltage, frequency, phase system)	Yes
Source priority	Source 1/2, No priority
Manual re-transfer	Yes
In-phase monitor (synchro check)	Yes
Genset exercising: on-load, off-load	Yes
In-built power meter module	Yes
Load shedding	Yes
Real time clock	Yes
Event log	Yes
Predictive maintenance	Yes
Voltage and current harmonics measuring	Yes
<b>Field-mount accessories</b>	
Auxiliary contacts for position indication	Yes
Digital input/output modules (factory programmed)	Yes
12-24 Vdc aux supply module for controller	Yes
Communication modules	Yes
<b>Connectivity capability</b>	
Modbus RTU (RS-485)	Yes
Modbus/TCP	Yes
Profibus DP	Yes
ProfiNet	Yes
DeviceNet	Yes
Ethernet IP	Yes
Monitoring via ABB Ability™ Energy and Asset Manager	Yes
<b>For applications</b>	
Mains - Mains	Yes
Mains - Generator (minimum size 20kVA)	Yes
<b>UL short circuit withstand ratings</b>	
Coordinated breaker WCR	Yes
Time-based WCR	Yes
Short-time ratings	Yes

# Main features

For more information, consult ABB



The inputs and outputs in the following tables are available and programmable on all ZTS T-series transfer switches. When ordering a switch, an IO package must be selected. This package determines the number of IO and the functions that will be factory programmed. Although factory programmed, all included IO may be re-programmed by the user, password permitting, via the HMI, Ekip Connect, or via communications. See table titled "IO packages" in ordering information section for more details.

Type	Functions	Pre-configured IO packages				
		Base	Plus <sup>1</sup>	Controls	Flex <sup>1</sup>	Motor <sup>1</sup>
<b>Input functions</b>						
No function	Input disabled.	2	-	-	-	-
Emergency Stop	Transfers to O position in delayed transition I-O-II type switches. Disables automatic control mode in both delayed and open transition types.	-	-	-	-	-
Remote Test On Load / Peak shave	Start/stop test on load sequence in rising (NO) or falling (NC) edge of the input signal.	-	1	1	1	1
Remote Test Off Load	Start/stop test off load sequence in rising (NO) or falling (NC) edge of the input signal.	-	-	-	-	-
Inhibit AUTO Mode	Prevent switch control operations, configuration, test sequences and generator start in case of priority source failure.	-	-	1	-	1
Manual Retransfer	Disables automatic transfer back to priority source.	-	-	1	1	1
Source Priority S1	Sets priority for source 1 in transformer-transformer application.	-	-	-	-	-
Source Priority S2	Sets priority for source 2 in transformer-transformer application.	-	-	-	-	-
Inhibit Transfer	Disables automatic transfer from priority source to non-priority source.	-	-	1	-	1
Bypass Running Time Delays	Bypass any currently running time delay.	-	-	1	-	-
Load Shed ATS to S1	Allows back-up generator to signal to ATS to move to S1 to prevent overload. Stays in S1 if S1 restores and input removed.	-	-	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>2</sup>
Load Shed ATS to OFF	Allows back-up generator to signal to ATS to move to O to prevent overload. If S1 restores, transfer to S1 will occur even if input is maintained.	-	-	1 <sup>3</sup>	1 <sup>3</sup>	1 <sup>3</sup>
Remote Control to S1	Transfer to S1 when active. Overridden by activated 'Remote Control to OFF' signal.	-	-	-	-	-
Remote Control to OFF	Transfer to O position when active.	-	-	-	-	-
Remote Control to S2	Transfer to S2 when active. Overridden by activated 'Remote Control to OFF' or 'Remote Control to S1' signals.	-	-	-	-	-
Reset Alarm	Reset any active switch control alarms (open I failure, close I failure, open II failure, close II failure).	-	-	-	-	-
Manual-Auto Mode	Toggle automatic/HMI control mode, input is active only in rising/falling edge according to contact type.	-	-	-	-	-

<sup>1</sup> Three additional inputs available if selector switch option not selected

<sup>2</sup> Open transition configurations only

<sup>3</sup> Delayed transition configurations only

# Main features

For more information, consult ABB



Type	Functions	Pre-configured IO packages				
		Base	Plus <sup>4</sup>	Controls <sup>4</sup>	Flex <sup>4</sup>	Motor <sup>4</sup>
<b>Output functions</b>						
No Function	Output disabled.	1	-	-	-	-
Alarm / Product availability	Signals any active alarms or ATS being disabled for automatic transfer operations.	-	-	-	-	-
Load Connected to S1	Signals switch in position I.	-	-	-	-	-
Load Disconnected	Signals switch in position O.	-	-	-	-	1
Load Connected to S2	Switch in position II.	-	-	-	-	-
Pre-transfer Signal	Signal is activated and transfer is delayed according to pre-transfer delay. Signal is kept activated according to post-transfer delay after transfer.	-	-	1	1	2
Source 1 Available	Signals no anomalies in S1 voltage supply.	-	1	1	1	1
Source 2 Available	Signals no anomalies in S2 voltage supply.	-	1	1	1	1
Load Shed 1	Used for shedding non-essential loads before transferring to non-priority source. The signal is activated before transferring to non-priority source according to load shed delay and kept activated until load is transferred back to priority source.	-	-	-	-	-
Elevator pre-signal	The signal is activated and transfer is delayed according to Elevator pre-signal delay. The signal is kept activated according to Elevator post-signal delay after transfer.	-	-	1	1	1

<sup>4</sup>One additional output available if transfer alarm option not selected

# Zenith ZTS T-series 30-3000A ordering information

## 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 product type, ampere rating, standard classification and number of poles, all in one table.

## Explanation of the types ZTS T-series

<b>Z</b>	<b>S</b>	<b>A</b>	<b>O</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>N</b>	<b>S</b>	<b>1</b>	<b>S</b>	<b>5</b>	<b>T</b>	<b>P</b>	<b>T</b>	<b>X</b>	<b>X</b>	<b>0</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

<b>1</b>	<b>Zenith</b>
Z	ABB Zenith Labeled
<b>2</b>	<b>Product Family</b>
S	ZTS T-series
<b>3</b>	<b>Application</b>
A	ATS
<b>4</b>	<b>Transition Type</b>
O	Open Transition
D	Delayed Transition
C	Closed Transition
<b>567</b>	<b>Amperage</b>
003	30 A
006	60 A
010	100 A
012	125 A <sup>1</sup>
015	150 A <sup>1</sup>
016	160 A
020	200 A
022	225 A <sup>1</sup>
026	260 A
040	400 A
060	600 A
080	800 A
100	1000 A
120	1200 A
160	1600 A
200	2000 A
260	2600 A
300	3000 A
<b>8</b>	<b>System voltage</b>
B	208 V 1 Ph
C	220-240V 1 Ph
E	380-415V 1 Ph
F	440-480V 1 Ph
J	208 V 3 Ph
K	220-240V 3 Ph
M	380-415V 3 Ph
P	440-480V 3 Ph

<b>9</b>	<b>Neutral</b>
S	Switched Neutral
O	Overlapping MFBL Neutral
X	No Neutral
B	Solid Neutral Bar
<b>10</b>	<b>Enclosure</b>
X	No Enclosure (configured open style) <sup>2</sup>
1	NEMA 1
2	NEMA 12
3	NEMA 3R
4	NEMA 4
5	NEMA 4X
6	NEMA 1 + heater
7	NEMA 12 + heater
8	NEMA 3R + heater
9	NEMA 4 + heater
0	NEMA 4X + heater
<b>11</b>	<b>Lugs</b>
S	Mechanical lugs (30-1200 Amperes)
M	Mechanical lugs 600 MCM (1600-4000A)
L	Mechanical lugs 750 MCM (1600-4000A)
X	No lugs (1600-4000A)
C	2-Bolt Compression (30-260A reference table for size/qty)
D	2-Bolt Compression (400-4000A reference table for qty)
E	2-Bolt Compression 750 MCM (1600-4000A reference table for qty)
<b>12</b>	<b>Ground Bar</b>
1	(3) #8-1/0 cables
2	(6) #8-1/0 cables
3	(6) #6-250MCM
4	(12) #6-250MCM
5	(8) #2-600MCM
6	(12) #2-600MCM
7	(24) #2-600 MCM
8	(36) #2-600 MCM
X	No ground bar, lug on cabinet
<b>13</b>	<b>Metering options</b>
T	Embedded power meter
1	M91 Meter

<sup>1</sup> Ratings available only with closed transition

<sup>2</sup> Available initially only for 1600-3000A

# Zenith ZTS T-series 30-3000A ordering information

## 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 product type, ampere rating, standard classification and number of poles, all in one table.

## Explanation of the types ZTS T-series

<b>Z</b>	<b>S</b>	<b>A</b>	<b>O</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>P</b>	<b>S</b>	<b>1</b>	<b>S</b>	<b>5</b>	<b>T</b>	<b>P</b>	<b>T</b>	<b>X</b>	<b>X</b>	<b>0</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

<b>14</b>	<b>IO and indication packages</b>
B	Base
P	Plus
C	Controls
F	Flex
M	Motor
<b>15</b>	<b>Communications</b>
X	None
R	Modbus RTU
T	Modbus TCP
E	Ethernet/IP
D	DeviceNet
B	Profibus
N	Profinet
A	ABB Ability Ekip Com Hub
1	Modbus RTU + Modbus TCP
2	Modbus TCP + Ethernet/IP
3	Modbus RTU + Ekip Com Hub
4	Modbus TCP + Ekip Com Hub
5	Ethernet/IP + Ekip Com Hub
6	DeviceNet + Ekip Com Hub
7	Profibus + Ekip Com Hub
8	Profinet + Ekip Com Hub
<b>16</b>	<b>Other Options (Switches, Surge protection)</b>
X	None
S	Switch - Test/Auto/inhibit/Start (keyed)
A	Audible Transfer Alarm
T	SPD Type 1, Load Side
1	S & A
2	S & T
3	A & T
4	S, A & T
<b>17</b>	<b>Extra</b>
X	None
<b>18</b>	<b>Extra</b>
X	None

## Technical data

### ZTS T-series 30-3000A

#### Zenith ZTS T-series technical data 30-200 A

		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 on following page					
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	A / ms	35 / <110					
Suitable for applications		Transformer - Transformer, Transformer - Generator					

#### Zenith ZTS T-series technical data 260-1200 A

		Zenith switch size (A)					
Data according to UL1008		260	400	600	800	1000	1200
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	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	See table on following page					
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	A / ms	35 / <110		40 / <130			
Suitable for applications		Transformer - Transformer, Transformer - Generator					

#### Zenith ZTS T-series technical data 1600-3000 A

		Zenith switch size (A)			
Data according to UL1008		1600	2000	2600	3000
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	1600	2000	2600	3000
Optional standby systems - Motor loads or total system	A	1600	2000	2600	3000
Short-circuit withstand/closing and short-time current ratings	kA	See table on following page			
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	A / ms	50-65		<70	
Suitable for applications		Transformer - Transformer, Transformer - Generator			

## Technical data

### ZTS T-series 30-3000A

#### ZTS T-series Withstand and Close-on Ratings (WCR) and Short-time Ratings (STR)

ATS frame	ATS rating	Transition types	Coordinated fuse ratings			Coordinated breaker ratings				Time-based ratings		Short-time ratings	
			480V Max withstand	Class	Max fuse size	240V Max withstand	Max breaker size	480V Max withstand	Max breaker size	480V Max withstand	Time-period	480V Max withstand	Time-period
R2	30-200A	OT, DT	200kA	RK5	100A	200kA	250A	200kA	125A	18kA	0.1 sec	18kA <sup>1</sup>	0.3 sec
			50kA	RK5	200A				250A				
			200kA	Class J or T	200A				250A				
			100kA	Class J or T	400A				250A				
R2	260A	OT, DT	200kA	RK5	100A	200kA	600A	200kA	250A	25kA	0.1 sec	25kA <sup>1</sup>	0.3 sec
			100kA	RK5	200A				600A				
			200kA	Class J or T	200A				600A				
			100kA	Class J or T	400A				600A				
R3	400A	OT, DT	200kA	Class J or T	400A	200kA	600A	200kA	250A	35kA	0.1 sec	30kA <sup>1</sup>	0.3 sec
			100kA	Class J or T	600A				600A				
			200kA <sup>1</sup>	Class J or T	600A				600A				
R3	600A	OT, DT	200kA	Class J or T	400A	200kA	600A	100kA	600A	42kA	0.1 sec	30kA <sup>1</sup>	0.3 sec
			100kA	Class J or T	600A				600A				
			200kA <sup>1</sup>	Class J or T	800A				600A				
			200kA <sup>1</sup>	Class L	800A				800A				
R4	800-1200A	OT, DT	100kA <sup>1</sup>	Class L	2000A	200kA <sup>1</sup>	1600A	100kA <sup>1</sup>	1200A	50kA	0.1 sec	50kA <sup>1</sup>	0.5 sec
			200kA <sup>1</sup>	Class J or T	800A				1600A				
			200kA <sup>1</sup>	Class L	1200A				1600A				
63L	100-1200A	CT	200kA	Class L	3000A	-	-	85kA	1600A	50kA	0.05 sec	-	-
R5	1600-3000A	OT, DT, CT	200kA	Class L	4000A	100kA	no max	100kA	no max	100kA	0.05 sec	65kA	0.5 sec

<sup>1</sup> 3 phase applications only

<sup>2</sup> For detailed WCR ratings by ATS and breaker type, please refer to document number [1SCC303020C0201](#), Zenith short circuit ratings

#### ZTS T-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

## Technical data

### ZTS T-series 30-3000A

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

Model	Amperage	Cables per phase & neutral	Range of wire sizes	
ZTS ZTSD ZTSCT	30-60	1	12 - 2/0 AWG	(3 - 67 mm <sup>2</sup> )
	100-200	1	6 AWG - 300 kcmil	(14 - 152 mm <sup>2</sup> )
	260-400	1 / 2	1x 4 AWG - 600 kcmil / 2x 1/0 - 250 kcmil	(1x 25 - 304 mm <sup>2</sup> / 2x 55 - 127 mm <sup>2</sup> )
	600	2	2 AWG - 600 kcmil	(34 - 304 mm <sup>2</sup> )
	800-1200	4	2 AWG - 600 kcmil	(34 - 304 mm <sup>2</sup> )
	1600-3000	8	2 AWG - 600 kcmil	(34 - 304 mm <sup>2</sup> )
		8	750 kcmil	(380 mm <sup>2</sup> )

## Dimensions

### ZTS T-series 30-3000A

ZTS T-series dimensions

Model	ATS Rating (A)	Poles	Dimensions, <sup>2</sup> in (mm)			Reference figure
			Height (A)	Width (B)	Depth (C)	
ZTS ZTSD	30-200	2	32 (813)	24 (610)	12 (305)	1
		3	32 (813)	24 (610)	12 (305)	1
		4	32 (813)	24 (610)	12 (305)	1
	260	2	46 (1168)	24 (610)	14 (356)	1
		3	46 (1168)	24 (610)	14 (356)	1
		4	46 (1168)	24 (610)	14 (356)	1
	400	2	46 (1168)	24 (610)	14 (356)	1
		3	46 (1168)	24 (610)	14 (356)	1
		4	54 (1372)	28 (711)	19.5 (495)	1
	600	2	54 (1372)	28 (711)	19.5 (495)	2
		3	54 (1372)	28 (711)	19.5 (495)	2
		4	54 (1372)	28 (711)	19.5 (495)	2
800-1200	3	74 (1880)	40 (1016)	19.5 (495)	3	
	4	74 (1880)	40 (1016)	19.5 (495)	3	
ZTSCT	100-1200	2	74 (1880)	40 (1016)	19.5 (495)	3
		3	74 (1880)	40 (1016)	19.5 (495)	3
		4	74 (1880)	40 (1016)	19.5 (495)	3
ZTS ZTSD ZTSCT	1600-3000	3	90 (2290)	35.5 (900)	48 (1220)	4
		4	90 (2290)	35.5 (900)	48 (1220)	4

## Dimensions

### ZTS T-series 30-3000A

Figure 1 30-400A

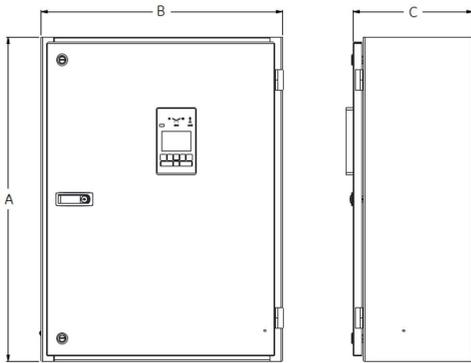


Figure 2 600A

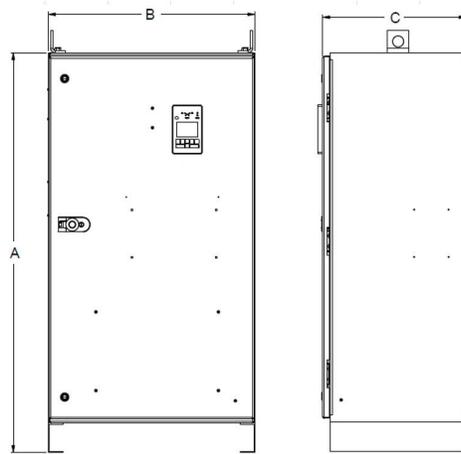


Figure 3 800-1200A

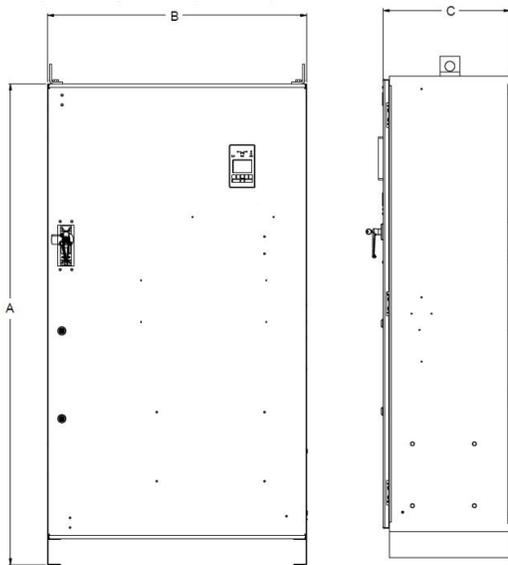
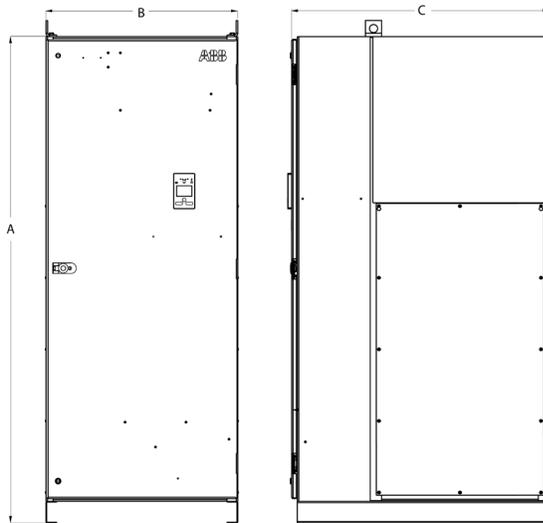


Figure 4 1600-3000 A





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