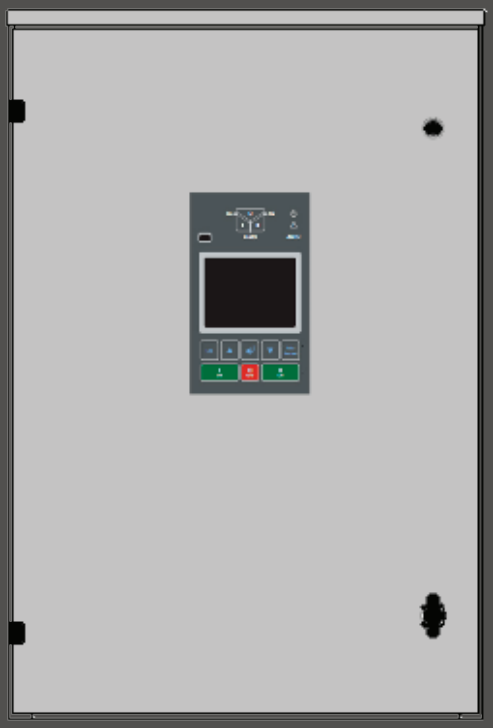
TRYSTAR®

AUTOMATIC TRANSFER SWITCHES

1200 Amp and Below



15765 Acorn Trail / Faribault, MN 55021 / 507.333.3990

TRYSTAR.com

TABLE OF CONTENTS

ATS PART NUMBER BREAKDOWN---------- 3
ATS SERIES ---------- 3
CONTROLLER FEATURES ---------- 6
ATS TECHNICAL SPECIFICATIONS ---------- 8
ATS TECHNICAL SPEC CONT'D ---------- 9
ATS WIRING DIAGRAM----------10
WITHSTAND AND SHORT CIRCUIT RATINGS----------10
ATS 200 AMP AND BELOW----------11
ATS 600-260 AMP----------11
ATS 1200-800 AMP ----------12

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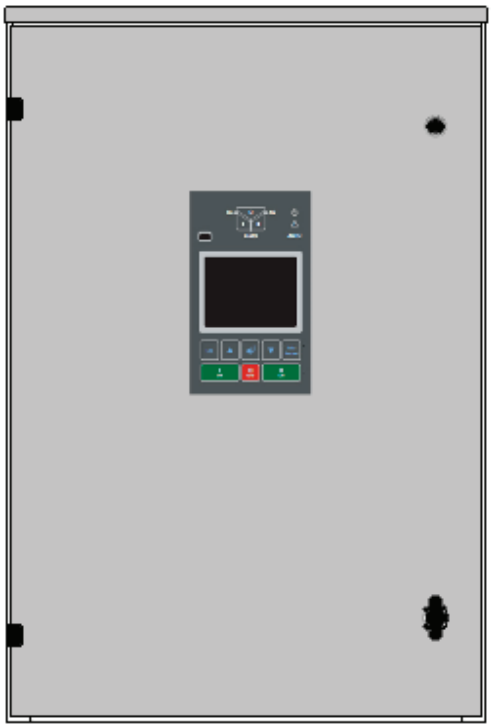
ATS Part Number Breakdown

	Product Family (5 digits)		Ampacity (2 digits)		Voltage, Pole/Phase, (2 digits)			Enclosure Rating (2 digits)	
ATS D3	**Automatic Transfer Switch ATS__**	01	100 amps**	M	200-480 V	2	2 Pole**	T1	Type 1
	Series 2 Controller, open transition **O2**	02	200 amps			3	3 pole	3R	Type 3R Painted Steel
	Series 3 Controller, open transition **O3****	26	260 amps			4	4 pole	3X	Type 3RX 316 Stainless Steel
	Series 4 Controller, open transition ***O4***	04	400 amps					T4	Type 4
	Series 2 Controller, delayed transition **D2**	06	600 amps					4X	Type 4X 316 Stainless Steel**
	Series 3 Controller, delayed transition **D3**	08	800 amps					12	Type 12 Painted Steel
	Series 4 Controller, delayed transition **D4**	12	1200 amps						

Stock (standard) units utilize Delayed transition series 3 controller, from 200 through 1200 amps, 3 and 4 pole, Type 3R enclosure, ship immediately. Open Transition Controller, 2 pole units (100-400A), and 100 amp rated, 3 and 4 pole units are available in 2-4 weeks. Series 2 and Series 4 controller are subject to factory availability and have a standard lead time of 6-10 weeks.

Part Number Example ATSD3-04-M4-3R: Automatic Transfer Switch, Delayed transition series 3 controller, 400 Amps, 200-480V 4 Pole, Type 3R enclosed.

ATS Series

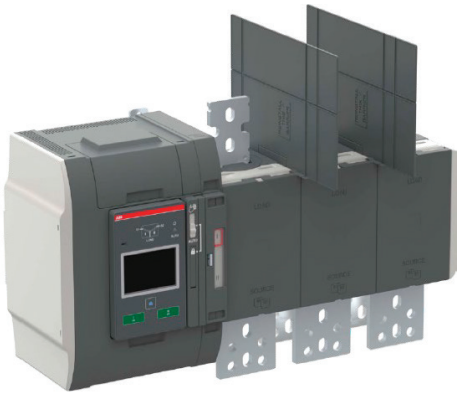


Type 3R Enclosure Standard

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Door Mounted, Lockable Cover, Type 3 Controller Standard

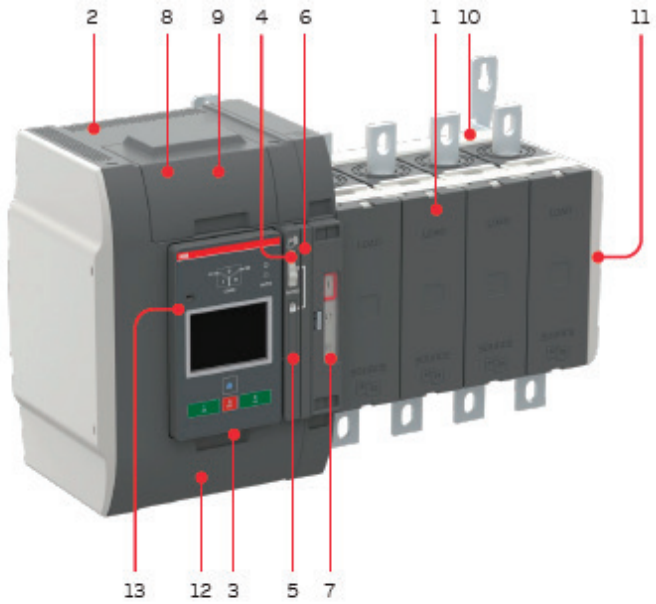


3 and 4 Pole Standard

c UL us LISTED

UL 1008 Listed

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1. Automatic transfer switch
2. Embedded ATS control unit and mechanism
3. Detachable HMI unit, three types (Level 2 DIP, Level 3 LCD and Level 4 Touch)
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 sensor module (with Level 4 controls)
11. Place for auxiliary contact block
12. Location of product identification label
13. Programming port, only for Ekip Programming module and Ekip Connect software

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CONTROLLER FEATURES

TruONE™ feature comparison

Virtual HMI - Level 2 controls

Virtual HMI - Level 4 controls







	Level 2 controls	Level 3 controls	Level 4 controls
Ampere sizes available	IEC: 200-1600 A	IEC: 200-1600 A	IEC: 200-1600 A
	UL: 30-1200 A	UL: 30-1200 A	UL: 30-1200 A
Rated voltage, three phase	200-480Vac	200-480Vac	200-480Vac
Rated voltage, single phase	200-240Vac	200-240Vac	200-240Vac
Rated frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Phase system	Single and Three	Single and Three	Single and Three
Number of poles	2, 3 and 4	2, 3 and 4	3 and 4
Neutral configuration			
Switched	Yes	Yes	Yes
Overlapping	No	Yes	Yes
Product type			
Open transition (I-II)	Yes	Yes	Yes
Delayed transition (I-O-II)	Yes	Yes	Yes
Voltage and frequency settings			
Pick up Voltage Source 1	Fixed 2% above drop out	71-99%, 101-119%	71-99%, 101-119%
Drop out Voltage Source 1	+/-5, 10, 15, 20%	70-98%, 102-120%	70-98%, 102-120%
Pick up Voltage Source 2	Fixed 2% above drop out	71-99%, 101-119%	71-99%, 101-119%
Drop out Voltage Source 2	+/-5, 10, 15, 20%	70-98%, 102-120%	70-98%, 102-120%
Pick up Frequency Source 1	Fixed 1% above drop out	80.5-99.5%, 100.5-119.5%	80.5-99.5%, 100.5-119.5%
Drop out Frequency Source 1	+/-5, 10 %	80-99%, 101-120%	80-99%, 101-120%
Pick up Frequency Source 2	Fixed 1% above drop out	80.5-99.5%, 100.5-119,5%	80.5-99.5%, 100.5-119.5%
Drop out Frequency Source 2	+/-5, 10 %	80-99%, 101-120%	80-99%, 101-120%
Time delay settings			
Override momentary Source 1 Outage, sec	0, 1, 2, 3, 4, 5, 10, 15, 20, 30	0-60	0-60
Transfer from Source 1 to Source 2, sec	2 (0-3600 via Ekip Connect)	0-3600	0-3600
Override momentary Source 2 Outage, sec	2 (0-60 via Ekip Connect)	0-60	0-60
Transfer from Source 2 to Source 1, min	0, 1, 2, 3, 4, 5, 10, 15, 20, 30	0-120	0-120
Generator stop delay, min	30 secs or 4 mins	0-60	0-60
Center-OFF delay, sec	0 or 4	0-300	0-300
Pre-transfer delay S1 to S2, sec	No	0-300	0-300
Post-transfer delay S1 to S2 , sec	No	0-300	0-300
Pre-transfer delay S2 to S1, sec	No	0-300	0-300
Post-transfer delay S2 to S1, sec	No	0-300	0-300
Elevator Pre-signal delay S1 to S2, sec	No	0-60	0-60
Elevator Post-signal delay S1 to S2, sec	No	0-60	0-60
Elevator Pre-signal delay S2 to S1, sec	No	0-60	0-60
Elevator Post-signal delay S2 to S1, sec	No	0-60	0-60
Load shed delay, sec	No	0-60	0-60

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TruONE™ feature comparison

Consult ABB for more information





	Level 2 controls	Level 3 controls	Level 4 controls
Source failure detections			
No voltage	Yes	Yes	Yes
Undervoltage	Yes	Yes	Yes
Overvoltage	Yes	Yes	Yes
Phase missing	Yes	Yes	Yes
Voltage unbalance	Yes	Yes	Yes
Invalid frequency	Yes	Yes	Yes
Incorrect phase sequence	Yes	Yes	Yes
Features			
Controls	DIP + keys	LCD + keys	Touch + keys
LED indications for ATS, S1 and S2 status	Yes	Yes	Yes
Open transition - Standard digital inputs/outputs	0 / 1	1 / 1	2 / 1
Delayed transition - Standard digital inputs/outputs	1 / 1	2 / 1	3 / 1
Programmable digital inputs/outputs	No	Yes	Yes
Auto config (voltage, frequency, phase system)	Yes	Yes	Yes
Source priority	Source 1, No priority	Source 1/2, No priority	Source 1/2, No priority
Manual retransfer	Yes	Yes	Yes
In-phase monitor (synchro check)	Yes	Yes	Yes
Local genset exercising: on-load, off-load	via HMI	via HMI, digital inputs	via HMI, digital inputs
Scheduled genset exercising: on-load, off-load	via Ekip Connect	via HMI, Ekip Connect	via HMI, Ekip Connect
In-built power meter module	No	No	Yes
Load shedding	No	Yes	Yes
Real time clock (48h back-up after power outage)	via Ekip Connect	via HMI, Ekip Connect	via HMI, Ekip Connect
Event log	via Ekip Connect	via HMI, Ekip Connect	via HMI, Ekip Connect
Predictive maintenance	No	No	Yes
Harmonics measuring	No	Voltage	Voltage, current
Field-mount accessories			
Auxiliary contacts for position indication	Yes	Yes	Yes
Digital input/output modules	No	Yes	Yes
12-24 Vdc aux supply module for controller	No	Yes	Yes
Communication modules	No	Yes	Yes
Connectivity			
Modbus RTU (RS-485)	No	Yes	Yes
Modbus/TCP	No	Yes	Yes
Profibus DP	No	Yes	Yes
ProfiNet	No	Yes	Yes
DeviceNet	No	Yes	Yes
Ethernet IP	No	Yes	Yes
Ekip Com Hub (monitoring via ABB Ability™: Energy and Asset Manager)	No	Yes	Yes
For applications			
Mains - Mains	Yes	Yes	Yes
Mains - Generator[1]	Yes	Yes	Yes

[1] Contact ABB for applications with smaller than 20 kVA gensets

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ATS Technical Specifications

3 and 4 pole construction - Operating performance and short-circuit capability

				Switch size					
Data according to UL1008				**OX30**	**OX60**	**OX100**	**OX125**	**OX160**	**OX200**
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
Minimum enclosure size or equivalent volume	W x H x D		mm	600 x 800 x 300					
Short-circuit withstand/closing and short-time current ratings			kA	See table B					
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	37 / <110					
Mechanical endurance	No. of operating cycles			6050	6050	6050	6050	6050	6050
Weight without accessories	3-pole switch		kg	14	14	14	14	14	14
	4-pole switch		kg	15.6	15.6	15.6	15.6	15.6	15.6
Suitable for applications				Transformer - Transformer, Transformer - Generator[1]					
Data according to IEC60947-6-1									
Rated operational current, AC-31B		up to 240 V	A					160	250
Rated operational current, AC-32B		up to 240 V	A					160	250
Rated operational current, AC-33B		up to 240 V	A					160	250
Rated breaking capacity in category AC-33		up to 240 V	A					1600	2500
Rated operational current, AC-31A		up to 415 V	A					160[2]	200[2]
Rated operational current, AC-33iA[5]		up to 415 V	A					125	125
Rated operational current, AC-33A		up to 415 V	A					125[2]	125[2]
Rated conditional short-circuit current Iq (r.m.s.) and corresponding protective devices (fuse or circuit breaker)	Iq (r.m.s.) 100 kA, 500 V	$\hat{i}_c$ (peak) [4]	kA					49	49
	Max. OFA_ fuse size	gG/aM	A/A					400 / 400	400 / 400
	Iq (r.m.s.) 50 kA, 500 V								
	ABB circuit breaker type							T5L630	T5L630
Rated short-time withstand current	Icw (r.m.s.)	415 V 0.1s	kA					18	18
	Icw (r.m.s.)	415 V 0.3s	kA					18	18
	Icw (r.m.s.)	415 V 0.5s	kA						
Rated short-time making capacity[3]	Icm peak	415 V	kA					36	36

1. Contact Trystar for applications with smaller than 20kVA gensets
2. OX_B bottom entry versions only
3. Short circuit duration > 50ms, without fuse protection
4. Cut-off current îc (peak) value. The cut-off current îc refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).
5. AC-33iA according to GB/T 14048.11

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ATS Technical Specifications Cont'd

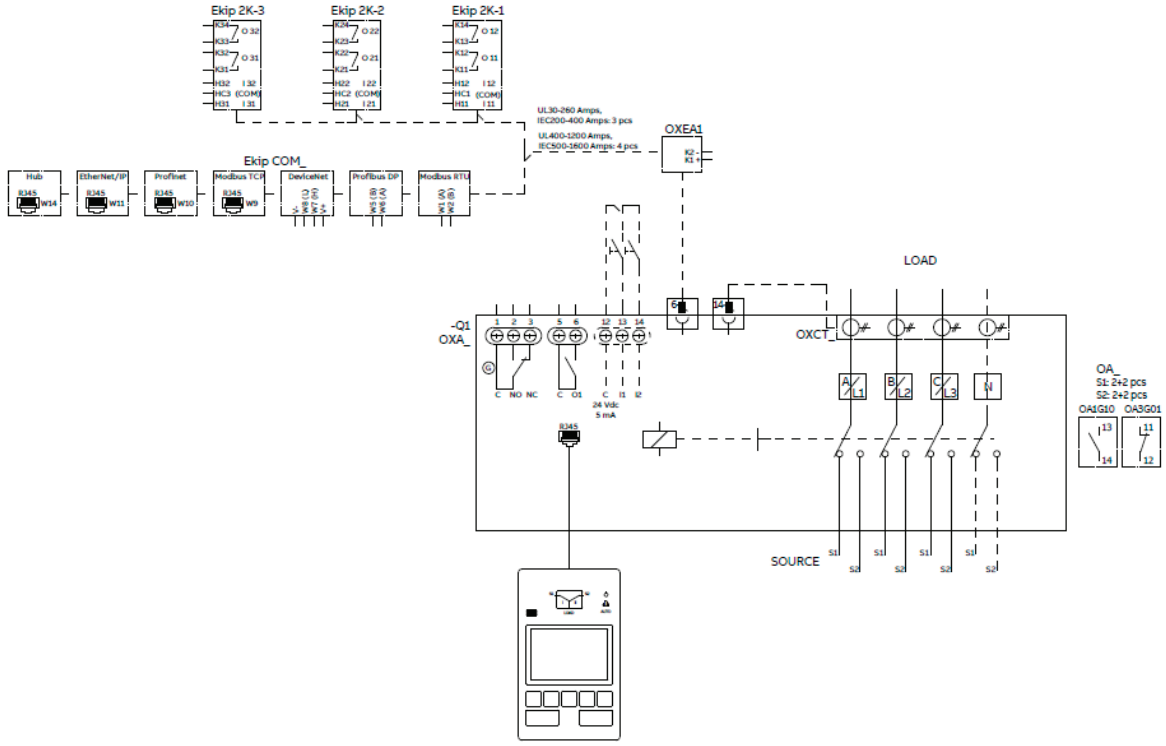
3 and 4 pole construction - Operating performance and short-circuit capability

				Switch size					
Data according to UL1008				**OX260**	**OX400**	**OX600**	**OX800**	**OX1000**	**OX1200**
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
Minimum enclosure size or equivalent volume	W x H x D		mm	600 x 800 x 300			800 x 1000 x 300		
Short-circuit withstand/closing and short-time current ratings			kA	See table B					
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	37 / <110	40 / <130				
Mechanical endurance	No. of operating cycles			6050	4050	3050	3050	3050	3050
	3-pole switch		kg	15.4	19.1	19.1	31.1	31.1	31.1
	4-pole switch		kg	17.5	21.4	21.4	37.1	37.1	37.1
Suitable for applications				Transformer - Transformer, Transformer - Generator[1]					
Data according to IEC60947-6-1									
Rated operational current, AC-31B		up to 415 V	A	400	400	800	1000	1250	1600
Rated operational current, AC-32B		up to 415 V	A	400	400	800[2]	1000[2]	1250[2]	1600[2]
Rated operational current, AC-33B		up to 415 V	A	400	400	800[2]	1000[2]	1250[2]	1250[2]
Rated breaking capacity in category AC-33		up to 415 V	A	4000	4000	8000[2]	10000[2]	12500[2]	12500[2]
Rated operational current, AC-31A		up to 415 V	A	315[2]	315[2]	630[2]	1000[2]	1250[2]	1250[2]
Rated operational current, AC-33iA[5]		up to 415 V	A	250	250[2]	630[2]	1000[2]	1250[2]	1250[2]
Rated operational current, AC-33A		up to 415 V	A	160[2]	160[2]	315[2]	630[2]	800[2]	800[2]
Rated conditional short-circuit current Iq (r.m.s.) and corresponding protective devices (fuse or circuit breaker)	Iq (r.m.s.) 100 kA, 500 V	îc (peak) [4]	kA	69	76	90	95	95	95
	Max. OFA_ fuse size	gG/aM	A/A	630 / 630	800/800	1000 / 1000	1600 / 1250	1600 / 1250	1600 / 1250
	Iq (r.m.s.) 50 kA, 500 V								
	ABB circuit breaker type			T6L630	T6L630	T6L1000			
	Iq (r.m.s.) 85 kA, 500 V								
	ABB circuit breaker type						T7L1600	T7L1600	T7L1600
Rated short-time withstand current	Icw (r.m.s.)	415 V 0.1s	kA	25	30	42	65	65	65
	Icw (r.m.s.)	415 V 0.3s	kA	25	30	30	50	50	50
	Icw (r.m.s.)	415 V 0.5s	kA			30	50	50	50
Rated short-time making capacity[3]	Icm peak	415 V	kA	52.5	89	89	105	105	105

1. Contact Trystar for applications with smaller than 20kVA gensets
2. OX_B bottom entry versions only
3. Short circuit duration > 50ms, without fuse protection
4. Cut-off current îc (peak) value. The cut-off current îc refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).
5. AC-33iA according to GB/T 14048.11

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ATS Wiring Diagram



WITHSTAND AND SHORT CIRCUIT RATINGS

Table B: UL1008 Short-circuit withstand/closing and short-time current ratings

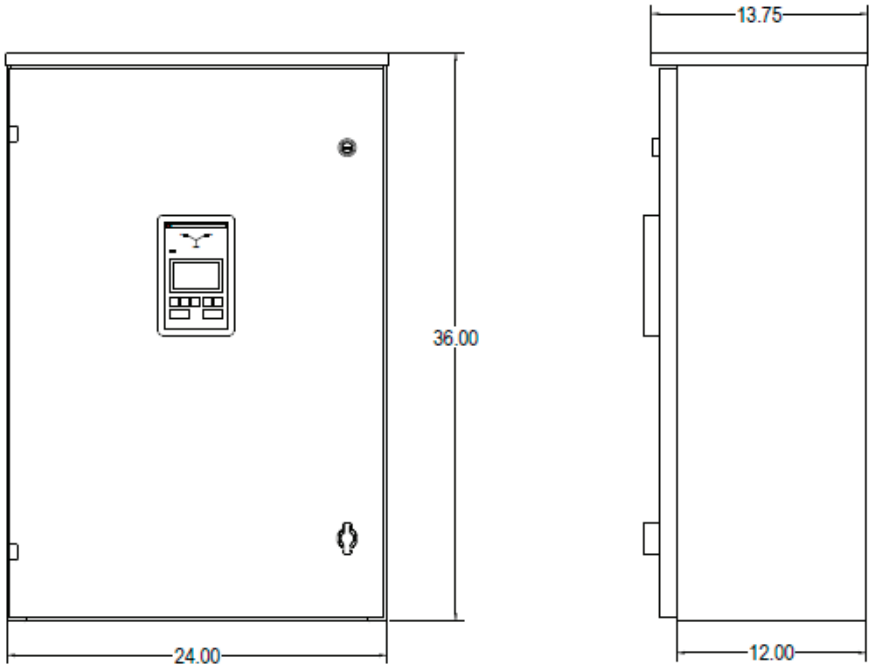
3 and 4 pole construction

Switch rating (A)	UL short-time rating (STR) & time [1] (s)	Time based WCR rating (A) & Time [1] [2] (s)	Maximum voltage (V)	Maximum coordinated breaker rating (A)	Breaker mfg	Max breaker size (A)	Breaker type	Current limiting fuse rating (A)	Max fuse size (A)
30									
60									
100									
125						125	XT2H125		
160	18	18				250	T4H250	200,000	
200	0.300 sec	0.100 sec	480	50,000	ABB	250	XT4H250	Class J	200
	25	25						200,000	
260	0.300 sec	0.100 sec	480	50,000	ABB	600	T5H600	Class J	400
	30	30						200,000	
400	0.250 sec	0.100 sec	480	50,000	ABB	600	T5H600	Class J	600
	42								
	0.100 sec								
	30	42						200,000	
600	0.500 sec	0.100 sec	480	50,000	ABB	800	T6S800	Class L	800
	65								
800	0.100 sec								
1000	50	65						200,000	
1200	0.500 sec	0.100 sec	480	85,000	ABB	1200	T7L1200	Class L	1200

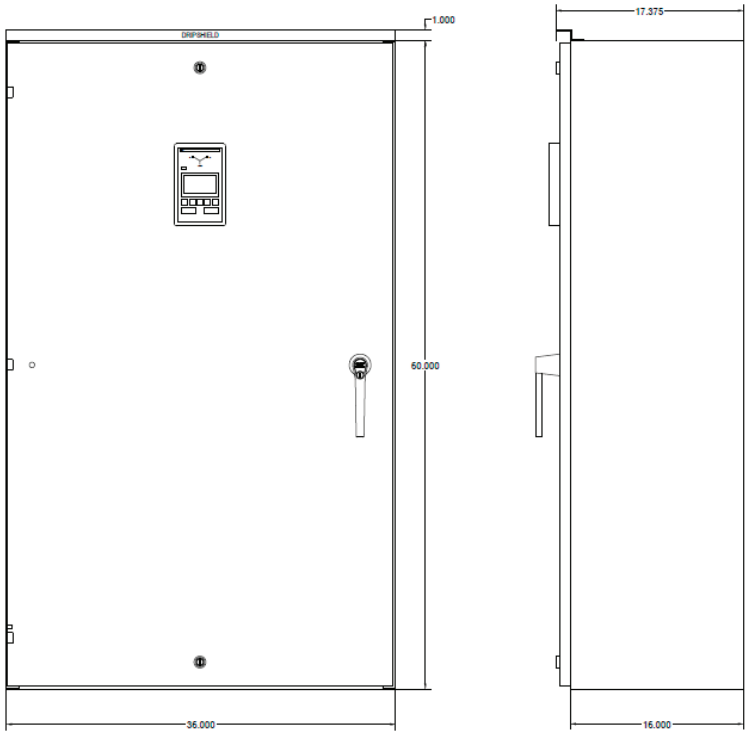
[1] This rating is available only with the TruONE UL Level 4 versions
[2] Time-based ratings are also known as any-breaker ratings

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ATS 200 AMP AND BELOW

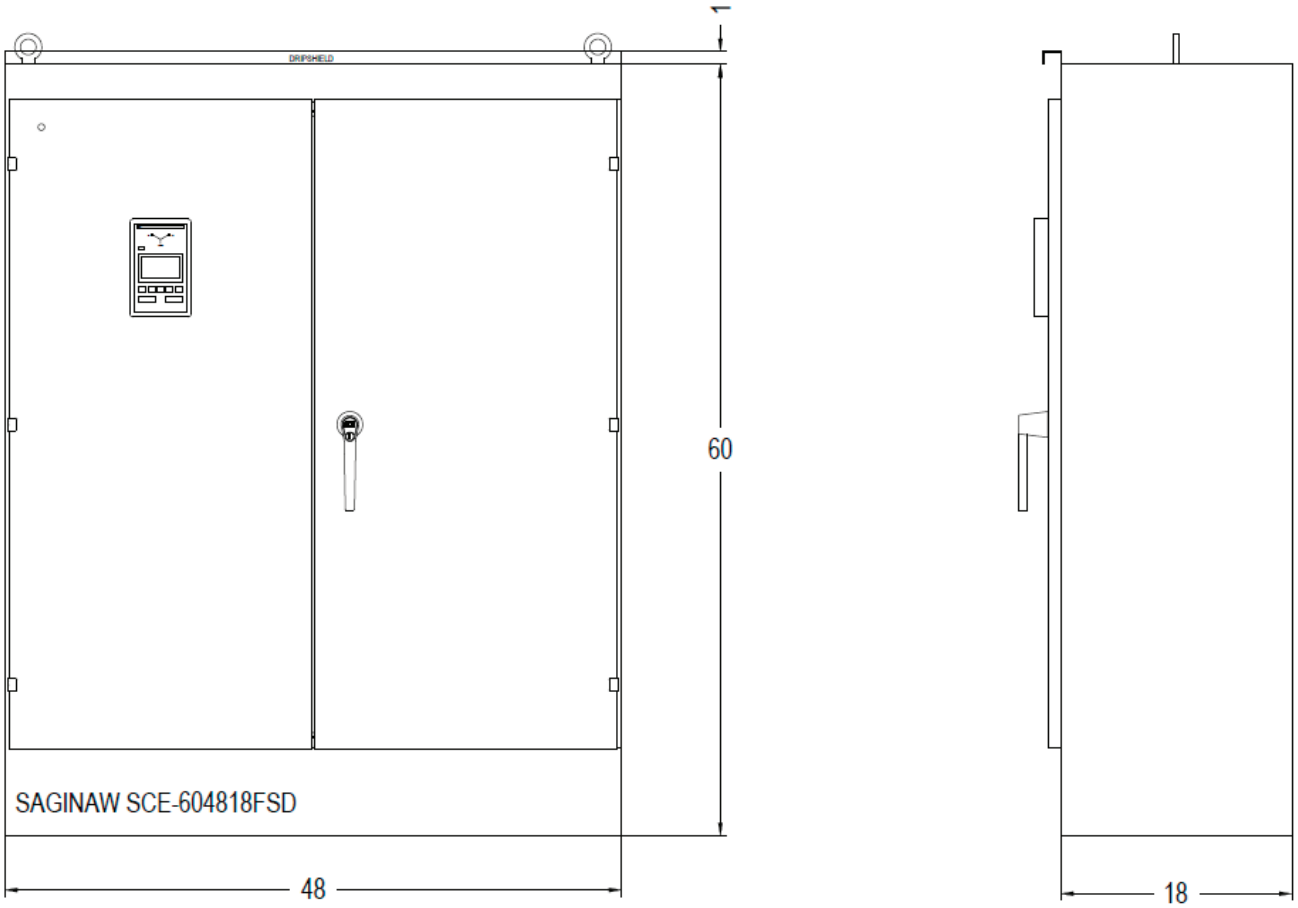


ATS 600-260 AMP



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ATS 1200-800 AMP



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