

Technical data - UL

TruONE ATS OX30...1200U, open style

2 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 - 240					
Operating voltage range	Vac	160 - 288					
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 610 x 813 x 305					
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	A / ms	37 / <110					
Mechanical endurance	No. of operating cycles	6050	6050	6050	6050	6050	6050
Weight without accessories	2-pole switch	12.4	12.4	12.4	12.4	12.4	12.4
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-33B	up to 240 V	A				160	250
Rated breaking capacity in category AC-33	up to 240 V	A				1600	2500
Minimum enclosure size or equivalent volume	W x H x D	mm 600 x 800 x 300					
Rated conditional short-circuit current I _q (r.m.s.) and corresponding protective devices (fuse or circuit breaker)	I _q (r.m.s.) 100 kA, 240 V	\hat{i}_c (peak) ⁴⁾	kA			39	39
	Max. OFA fuse size	gG/aM	A/A			315	315
	I _q (r.m.s.) 50 kA, 240 V						
	ABB circuit breaker type					T5L630	T5L630
Rated short-time withstand current	I _{cw} (r.m.s.)	240 V 0.1s	kA			12	12
	I _{cw} (r.m.s.)	240 V 0.3s	kA			12	12
	I _{cw} (r.m.s.)	240 V 0.5s	kA				
Rated short-time making capacity ³⁾	I _{cm} peak	240 V	kA			24	24

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	14	14	14	14	14	14
	4-pole switch	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-33A	up to 415 V	A				160	200
Rated conditional short-circuit current I _q (r.m.s.) and corresponding protective devices (fuse or circuit breaker)	I _q (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
	I _q (r.m.s.) 50 kA, 500 V						
	ABB circuit breaker type					T5L630	T5L630
Rated short-time withstand current	I _{cw} (r.m.s.)	415 V 0.1s	kA			18	18
	I _{cw} (r.m.s.)	415 V 0.3s	kA			18	18
	I _{cw} (r.m.s.)	415 V 0.5s	kA				
Rated short-time making capacity ³⁾	I _{cm} peak	415 V	kA			36	36

¹⁾ Contact ABB for applications with smaller than 20kVA gensets

²⁾ Short circuit duration > 50ms, without fuse protection

⁴⁾ Cut-off current \hat{i}_c (peak) value. The cut-off current \hat{i}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).

Technical data - UL

TruONE ATS OX30...1200U, open style

2 pole construction - Operating performance and short-circuit capability

		Switch size				
Data according to UL1008		OX260	OX400	OX600		
Rated operational voltage	Vac	200 - 240				
Operating voltage range	Vac	160 - 288				
Rated frequency	Hz	50-60				
Emergency systems - Motor loads or total system	A	260	400	600		
Optional standby systems - Motor loads or total system	A	260	400	600		
Minimum enclosure size or equivalent volume	W x H x D	610 x 1168 x 356		711 x 1372 x 495		
Short-circuit withstand/closing and short-time current ratings	kA	See table A				
Contact transfer time I-II, II-I	Load interrupting time	ms				
Operating transfer time I-II, II-I	ms	<50				
ATS current draw during transfer / time duration	A / ms	37 / <110	40 / <130			
Mechanical endurance	No. of operating cycles	6050	4050	3050		
Weight without accessories	2-pole switch	kg	13.3	16.9		
Suitable for applications		Transformer - Transformer, Transformer - Generator ¹⁾				
Data according to IEC60947-6-1						
Rated operational current, AC-31B	up to 240 V	A	400	400	800	
Rated operational current, AC-33B	up to 240 V	A	400	400	800 ²⁾	
Rated breaking capacity in category AC-33	up to 240 V	A	4000	4000	8000 ²⁾	
Rated conditional short-circuit current I _q (r.m.s.) and corresponding protective devices (fuse or circuit breaker)	I _q (r.m.s.) 100 kA, 240 V	\hat{i}_c (peak) ⁴⁾	kA	56	65	90
	Max. OFA_fuse size	gG type	A/A	500	630	1000
Rated short-time withstand current	I _{cw} (r.m.s.)	240 V 0.1s	kA	18	18	18
	I _{cw} (r.m.s.)	240 V 0.3s	kA	18	18	18
Rated short-time making capacity ³⁾	I _{cm} peak	240 V	kA	36	36	36
	ABB circuit breaker type			T5L630	T6L630	T6L1000

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	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					
Operating transfer time I-II, II-I	ms	<50					
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
Suitable for applications	3-pole switch	kg	15.4	19.1	19.1	31.1	31.1
	4-pole switch	kg	17.5	21.4	21.4	37.1	37.1
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
Rated operational current, AC-32B	up to 415 V	A	400	400	800/720 ⁵⁾	1000	1250
Rated operational current, AC-33B	up to 415 V	A	400	400	800/720 ⁵⁾	1000	1250
Rated breaking capacity in category AC-33	up to 415 V	A	4000	4000	8000/7200 ⁵⁾	10000	12500
Rated operational current, AC-33A	up to 415 V	A	250	400	630	1000	1250
Rated conditional short-circuit current I _q (r.m.s.) and corresponding protective devices (fuse or circuit breaker)	I _q (r.m.s.) 100 kA, 500 V	\hat{i}_c (peak) ⁴⁾	kA	69	76	90	95
	Max. OFA_fuse size	gG/aM	A/A	630 / 630	800/800	1000 / 1000	1600 / 1250
Rated short-time withstand current	I _{cw} (r.m.s.)	415 V 0.1s	kA	25	30	42	65
	I _{cw} (r.m.s.)	415 V 0.3s	kA	25	30	30	50
Rated short-time making capacity ³⁾	I _{cm} peak	415 V	kA	52.5	89	89	105
	ABB circuit breaker type			T6L630	T6L630	T6L1000	
	I _q (r.m.s.) 85 kA, 500 V						
	ABB circuit breaker type				T7L1600	T7L1600	T7L1600

¹⁾ Contact ABB for applications with smaller than 20 kVA gensets

²⁾ OX_B bottom entry versions only

³⁾ Short circuit duration > 50ms, without fuse protection

⁴⁾ Cut-off current \hat{i}_c (peak) value. The cut-off current \hat{i}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269)

⁵⁾ OX_B bottom entry type rating / OX_T top entry type rating

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