CATALOG

SACE Tmax XT

Low voltage molded case circuit-breakers



Break new ground
- Data and connectivity
- Ease of use and installation
- Performance and protection
- Safety and reliability

SACE Tmax XT automatic circuit-breakers for alternating current (AC) distribution



Size				**XT1**		
Rated uninterrupted current		[A]		160		
Poles		[No.]		3, 4		
Rated service voltage, **Ue**	(AC) 50-60Hz	[V]		690		
Rated insulation voltage, **Ui**		[V]		800		
Rated impulse withstand voltage, **Uimp**		[kV]		8		
Versions				Fixed, Plug-in(1)		
Max supply voltage on bottom side (F, P, W)		[V]		690		
Breaking capacities according to IEC 60947-2			**B**	**C**	**N**	**S**	**H**
Rated ultimate short-circuit breaking capacity, Icu							
Icu @ 220-230-240V 50-60Hz (AC)		[kA]	25	40	65	85	100
Icu @ 380V 50-60Hz (AC)		[kA]	18	25	36	50	70
Icu @ 415V 50-60Hz (AC)		[kA]	18	25	36	50	70
Icu @ 440V 50-60Hz (AC)		[kA]	15	25	36	50	65
Icu @ 500V 50-60Hz (AC)		[kA]	8	18	30	36	50
Icu @ 525V 50-60Hz (AC)		[kA]	6	8	22	35	35
Icu @ 690V 50-60Hz (AC)		[kA]	3	4	6	8	10
Rated service short-circuit breaking capacity, Ics							
Ics @ 220-230-240V 50-60Hz (AC)		[kA]	100%	100%	75% (50)	75%	75%
Ics @ 380V 50-60Hz (AC)		[kA]	100%	100%	100%	100%	75%
Ics @ 415V 50-60Hz (AC)		[kA]	100%	100%	100%	75%	50% (37.5)
Ics @ 440V 50-60Hz (AC)		[kA]	75%	50%	50%	50%	50%
Ics @ 500V 50-60Hz (AC)		[kA]	100%	50%	50%	50%	50%
Ics @ 525V 50-60Hz (AC)		[kA]	100%	100%	50%	50%	50%
Ics @ 690V 50-60Hz (AC)		[kA]	100%	100%	75% (5)	50% (5)	50%
Rated short-circuit making capacity, Icm							
Icm @ 220-230-240V 50-60Hz (AC)		[kA]	52.5	84	143	187	220
Icm @ 380V 50-60Hz (AC)		[kA]	36	52.5	75.6	110	154
Icm @ 415V 50-60Hz (AC)		[kA]	36	52.5	75.6	110	154
Icm @ 440V 50-60Hz (AC)		[kA]	30	52.5	75.6	110	143
Icm @ 500V 50-60Hz (AC)		[kA]	13.6	36	63	75.6	110
Icm @ 525V 50-60Hz (AC)		[kA]	9	13.6	46.2	73.5	73.5
Icm @ 690V 50-60Hz (AC)		[kA]	4.26	5.88	9	13.6	17
Breaking capacities according to NEMA-AB1							
@ 240V 50-60Hz (AC)		[kA]	25	40	65	85	100
@ 480V 50-60Hz (AC)		[kA]	8	18	30	36	65
Utilization Category (IEC 60947-2)					A		
Icw		[kA]			-		
Reference Standard					IEC 60947-2		
Insulation behaviour					✔		
Mounted on DIN rail					DIN EN 50022		
Mechanical life		[No. Operations]			25,000		
		[No. Hourly operations]			240		
Electrical life @ 415 V (AC)		[No. Operations]			8,000		
		[No. Hourly operations]			120		

(1) XT1 plug-in In max=125A (2) In<32A Icu=25kA/Ics=20kA, with magnetic trip unit only and In≤52A/Icu=Ics=5kA
(3) Ics=100% Icu up to 250 A with EF, ES, Rear and external FC CuAl (2x...) terminal. When any other terminals are used and load >200A Icu=25%







	XT2				XT3			XT4				
	160				250			160 / 250				
	3, 4				3, 4			3, 4				
	690				690			690				
	1000				800			1000				
	8				8			8				
	Fixed, Withdrawable, Plug-in				Fixed, Plug-in			Fixed, Withdrawable, Plug-in				
	≤ 480				690			≤ 600				
N	S	H	L	V	N	S	N	S	H	L	V	X
65	85	100	150	200	50	85	65	85	100	150	200	200
36	50	70	120	150	36	50	36	50	70	120	150	200
36	50	70	120	150	36	50	36	50	70	120	150	200
36	50	65	100	150	25	40	36	50	65	100	150	200
30	36	50	60	70	20	30	30	36	50	60	85	100
20	25	30	36	50	13	20	20	25	45	50	70	100
10	12	15	18	20	5	6	10	12	15	20	50[2]	100
100%	100%	100%	100%	100%	75%	50%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	75%	50% (27)	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	75%	50% (27)	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	75%	50%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	75%	50%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	75%	50%	100%	100%	100%	100%	100%	100%
100%	100%	100%	75% (15)	75%	50% (3)	50%	100%	100%	100%	100%	100%[3]	100%[3]
143	187	220	330	440	110	187	143	187	220	330	440	440
75.6	110	154	264	330	75.6	110	75.6	110	154	264	330	440
75.6	110	154	264	330	75.6	110	75.6	110	154	264	330	440
75.6	110	143	220	330	52.5	84	75.6	110	143	220	330	440
63	75.6	110	132	154	40	63	63	75.6	110	132	187	220
40	52.5	63	75.6	110	26	40	40	52.5	94.5	110	154	220
17	24	30	36	40	7.5	9	17	24	30	40	110	220
65	85	100	150	200	50	85	65	85	100	150	200	200
30	36	65	100	150	25	35	30	36	65	100	150	100
	A				A			A				
	-				-			-				
	IEC 60947-2				IEC 60947-2			IEC 60947-2				
	✔				✔			✔				
	DIN EN 50022				DIN EN 50022			DIN EN 50022				
	25,000				25,000			25,000				
	240				240			240				
	8,000				8,000			8,000			10,000	
	120				120			120				

SACE Tmax XT automatic circuit-breakers for alternating current (AC) distribution



Size			XT5					
Rated uninterrupted current		[A]	400 / 630					
Poles		[No.]	3. 4					
Rated service voltage. **Ue**	(AC) 50-60Hz	[V]	690					
Rated insulation voltage. **Ui**		[V]	1000					
Rated impulse withstand voltage. **Uimp**		[kV]	8					
Versions			Fixed. Withdrawable. Plug-in (5)					
Max supply voltage on bottom side (F. P. W)		[V]	690					
Breaking capacities according to IEC 60947-2			**N**	**S**	**H**	**L**	**V**	**X**
Rated ultimate short-circuit breaking capacity. Icu								
Icu @ 220-230-240V 50-60Hz (AC)		[kA]	70	85	100	150	200	200
Icu @ 380V 50-60Hz (AC)		[kA]	36	50	70	120	200	200
Icu @ 415V 50-60Hz (AC)		[kA]	36	50	70	120	200	200
Icu @ 440V 50-60Hz (AC)		[kA]	36	50	65	100	180	200
Icu @ 500V 50-60Hz (AC)		[kA]	25	30	50	85	150	150
Icu @ 525V 50-60Hz (AC)		[kA]	25	30	50	85	100	120
Icu @ 690V 50-60Hz (AC)		[kA]	20	25	40	70	80	100
Rated service short-circuit breaking capacity. Ics								
Ics @ 220-230-240V 50-60Hz (AC)		[kA]	100%	100%	100%	100%	100%	100%
Ics @ 380V 50-60Hz (AC)		[kA]	100%	100%	100%	100%	100%	100%
Ics @ 415V 50-60Hz (AC)		[kA]	100%	100%	100%	100%	100%	100%
Ics @ 440V 50-60Hz (AC)		[kA]	100%	100%	100%	100%	100%	100%
Ics @ 500V 50-60Hz (AC)		[kA]	100%	100%	100%	100%	100%	100%
Ics @ 525V 50-60Hz (AC)		[kA]	100%	100%	100%	100%	100%	100%
Ics @ 690V 50-60Hz (AC)		[kA]	100%	100%	100% (2)	100% (3)	100% (3)	100% (3)
Rated short-circuit making capacity. Icm								
Icm @ 220-230-240V 50-60Hz (AC)		[kA]	154	187	220	330	440	440
Icm @ 380V 50-60Hz (AC)		[kA]	75.6	110	154	264	440	440
Icm @ 415V 50-60Hz (AC)		[kA]	75.6	110	154	264	440	440
Icm @ 440V 50-60Hz (AC)		[kA]	75.6	110	143	220	396	440
Icm @ 500V 50-60Hz (AC)		[kA]	52.5	63	110	187	330	330
Icm @ 525V 50-60Hz (AC)		[kA]	52.5	63	110	187	220	264
Icm @ 690V 50-60Hz (AC)		[kA]	40	52.5	84	154	176	220
Breaking capacities according to NEMA-AB1								
@ 240V 50-60Hz (AC)		[kA]						
@ 480V 50-60Hz (AC)		[kA]						
Utilization Category (IEC 60947-2)			A (up to 630A). B (up to 500A) (4)					
Icw (1 sec)		[kA]	6					
Reference Standard			IEC 60947-2					
Insulation behaviour			✔					
Mounted on DIN rail			-					
Mechanical life		[No. operations]	20,000					
		[No. hourly operations]	120					
Electrical life @ 415 V (AC)		[No. operations]	7,000 (400A) - 5,000 (630A)					
		[No. hourly operations]	60					

(1) Not suitable for IT distribution systems > 440Vac (2) Ics = 75% In > 500A (3) Ics = 50% In > 500A (4) Category B: only when equipped with an electronic trip unit







XT6[1]			XT7			XT7 M		
800 / 1000 [6]			800 / 1000 / 1250 / 1600			800 / 1000 / 1250 / 1600		
3. 4			3. 4			3. 4		
690			690			690		
1000			1000			1000		
8			8			8		
Fixed. Withdrawable			Fixed. Withdrawable			Fixed. Withdrawable		
690			690			690		
N	S	H	S	H	L	S	H	L
70	85	100	85	100	200	85	100	200
36	50	70	50	70	120	50	70	120
36	50	70	50	70	120	50	70	120
30	45	50	50	65	100	50	65	100
25	35	50	45	50	85	45	50	85
25	35	50	45	50	65	45	50	65
20	22	25	30	42	50	30	42	50
100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%
100%	100%	100%	100%	100%	100%	100%	100%	100%
154	187	220	187	220	440	187	220	440
75.6	110	154	110	154	264	110	154	264
75.6	110	154	110	154	264	110	154	264
63	94.5	110	110	143	220	110	143	220
52.5	73.5	110	94.5	110	187	94.5	110	187
52.5	73.5	110	94.5	110	143	94.5	110	143
40	46.2	52.5	63	88.2	110	63	88.2	110
A (up to 1000A) - B (800A) [4]			B			B		
10			20			20		
IEC 60947-2			IEC 60947-2			IEC 60947-2		
✔			✔			✔		
-			-			-		
20,000			10,000			20,000		
120			60			60		
5,000			3,000			3,000		
60			60			60		

(5) Plug-in/Withdrawable: max In 40°C=600A (6) 1000A only for fixed execution with EF. ES. R and FCCuAl terminals. EF terminals are supplied as standard if no other terminals are ordered

SACE Tmax XT automatic circuit-breakers for alternating current (AC) distribution



Size			**XT1**
Dimensions			
Fixed	3 poles	[mm]	76.2 x 70 x 130
(Width x Depth x Height)	4 poles	[mm]	101.6 x 70 x 130
Trip units for power distribution			
TMD/TMA			
TMD/TMF			■
Ekip Dip			
Ekip Touch			
Trip units for motor protection			
MF/MA			
Ekip Dip			
Ekip Touch			
Trip units for generator protection			
TMG			
Ekip Dip			
Ekip Touch			
Interchangeable trip units			
Weight			
Fixed	3/4 poles	[kg]	1.1 / 1.4
Plug in (EF terminals)	3/4 poles	[kg]	2.21 / 2.82
Withdrawable (EF terminals)	3/4 poles	[kg]	







XT2	XT3	XT4
90 x 82.5 x 130	105 x 70 x 150	105 x 82.5 x 160
120 x 82.5 x 130	140 x 70 x 150	140 x 82.5 x 160
■		■
	■	
■		■
■		■
■	■	■
■		■
■		■
■	■	
■		■
■		■
✔		✔
1.2 / 1.6	1.7 / 2.1	2.5 / 3.5
2.54 / 3.27	3.24 / 4.1	4.19 / 5.52
3.32 / 4.04		5 / 6.76

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SACE Tmax XT automatic circuit-breakers for alternating current (AC) distribution



Size			**XT5**
Dimensions			
Fixed	3 poles	[mm]	140 x 103 x 205
(Width x Depth x Height)	4 poles	[mm]	186 x 103 x 205
Trip units for power distribution			
TMD/TMA			■
TMD/TMF			
Ekip Dip			■
Ekip Touch			■
Trip units for motor protection			
MF/MA			■
Ekip Dip			■
Ekip Touch			■
Trip units for generator protection			
TMG			■
Ekip Dip			■
Ekip Touch			■
Interchangeable trip units			✔
Weight			
Fixed	3/4 poles	[kg]	3.25 / 4.15
Plug in (EF terminals)	3/4 poles	[kg]	5.15 / 6.65
Withdrawable (EF terminals)	3/4 poles	[kg]	5.4 / 6.9

(1) Not suitable for IT distribution systems > 440Vac (2) Ics = 75% In > 500A (3) Ics = 50% In > 500A (4) Category B: only when equipped with an electronic trip unit





XT6[1]	XT7	XT7 M
210 x 103.5 x 268 280 x 103.5 x 268	210 x 166 x 268 280 x 166 x 268	210 x 178 x 268 280 x 178 x 268
■		
■	■ ■	■ ■
■	■ ■	■ ■
■	■ ■	■ ■
✔	✔	✔
9.5 / 12	9.7 / 12.5	11 / 14
12.1 / 15.1	29.7 / 39.6	32 / 42.6

(5) Plug-in/Withdrawable: max In 40°C=600A (6) 1000A only for fixed execution with EF, ES, R and FCCuAl terminals. EF terminals are supplied as standard if no other terminals are ordered