



Molded case & Low voltage Power circuit breakers

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ABB SACE.

At the forefront of Low voltage.



Once again ABB SACE is a synonym for quality and innovation in the Low voltage sector, with products, which, by being perfectly integrated, adapt to different service and installation requirements. The range of SACE Emax power circuit breakers covers all user needs with sizes from 800 up to

5000 A, whereas the molded case circuit breakers have sizes from 100 to 2500 A, with a complete offer which includes the two Tmax and Isomax families and provides considerable application advantages. Perfect integration between the two series, higher performances in circuit breakers with even more limited dimensions, a range of

standardized accessories which considerably simplifies selection of the apparatus ... today all this is possible thanks to the five sizes of the new Tmax molded case circuit breaker which runs alongside the Isomax series. Tmax is the first circuit breaker compared to any other similar apparatus to reach 600 A with such limited

overall dimensions: a depth of just 2.76 inches (70 millimeters) for T1, T2 and T3, and 4.07 inches (103.5 millimeters) for T4, T5 and S6 circuit breakers. The Tmax and Isomax circuit breakers and their accessories are conformed to the UL489 and CSA C22.2 No.5.1 North American Standard and to the International



IEC60947-2 Standards. The Emax power circuit breakers are conformed to the ANSI C37.13, C37.16, C37.17 and C37.50 Standards and they are UL1066 certified. The UL1066 certification allows Emax to be used in UL1558 switchgears, gear UL891 Low Voltage switchboards and CSA C22.2 No.31 Switchgear Assemblies. Furthermore Tmax circuit breakers are designed respecting the strictest environmental sustainability criteria: Tmax T1 was the first product in Italy to receive official validation for the Environmental Product Declaration (EPD) from the National Agency for Protection of the Environment (ANPA). In accordance with the commitment and awareness of the group towards the environment, ABB SACE has always paid great attention to achieving the objectives of sustainable development and environmental protection.

All the company production sites have obtained ISO 9001 quality certification, and most of these also have ISO 14001

Ethic and social accountability

The **SA8000** international Standard (Social Accountability 8000) or **Social Accountability System** is the mostly widespread and well-known international Standard, which guarantees that the company is socially accountable and mainly involved **in respecting the principles of the work ethic and of the working condition.**

Based on the so-called “social accountability requirements”, the SA8000 Standard confirms the **ethics of the whole production cycle** of a company with regard to child labor, freedom of employment, safeguarding personnel health and safety, freedom of association and the right to collective bargaining, equal opportunities, disciplinary procedures, wages and working hours, relationships with suppliers and integration with the communities where the company carries out its activities.

Also on the basis of the previous certification obtained by ABB Group Services Center in 2003, in 2004 ABB SACE S.p.A. decided to implement the management system for Social Accountability according to the SA8000 Standard at its sites in Frosinone and Patrica, which had already had their integrated QAS (Quality, Environment, Safety) management system certified in accordance with the ISO 9001:2000, ISO 14001:2004, and OHSAS 18001:99 Standards.

The initiative is part of the more general framework for the Group Function Sustainability Affairs activities of ABB, committed to implementation and pursuit of the objectives of ABB sustainability worldwide.

During the process for implementing the SA8000 Standard, all the personnel at Frosinone and Patrica took part in a series of confrontation and training meetings. **Suppliers and sub-suppliers were also involved**, called on to recognize and support the principles confirmed by the SA8000 Standard and the policy of ABB SACE S.p.A. for Social Accountability.

Among the multinationals in the electro-technical sector, ABB is, to date, the only certified SA8000 company.

Yet again, ABB SACE is ahead of the field in offering a better and better customer service.



environmental management system certification. All the factories of ABB SACE have also obtained certification

for integrated management of their Quality Assurance, Environmental and Safety systems in compliance with the

ISO 9001-2000, ISO 14001-96 and OHSAS 18001-99 Standards.

Molded case circuit breakers

Power distribution

			T1 1P	T1	T2	T3	
Frame size		[A]	100	100	100	225	
Numbers of poles		[Nr]	1	3-4	3-4	3-4	
Rated voltage	(AC) 50-60Hz	[V]	277	600Y/347	480	600Y/347	
	(DC)	[V]		500		500	
Test voltage (1min) 50-60 Hz		[V]	3000	3000	3000	3000	
Interrupting ratings		[kA rms]	B	N	S H	N S	
	240 V AC	[kA rms]		50 ⁽²⁾	65 150	50 65	
	277 V AC	[kA rms]	18 ⁽¹⁾				
	480 V AC	[kA rms]		22 ⁽²⁾	35 65	25 35	
	600Y/347 VAC	[kA rms]		10		10 10	
	600 V AC	[kA rms]					
	250 V DC (2 poles in series)	[kA rms]		25		25 35	
	500 V DC (3 poles in series)	[kA rms]		25		25 35	
	500 V DC (2 poles in series)	[kA rms]					
	600 V DC (3 poles in series)	[kA rms]					
Trip units	Thermomagnetic		■	■	■	■	
	Electronic				■		
Dimensions fixed version (3p)	H	[in-mm]	5.12-130	5.12-130	5.12-130	5.9-150	
	W	[in-mm]	1-25.4	3-76	3.54-90	4.13-105	
	D	[in-mm]	2.76-70	2.76-70	2.76-70	2.76-70	
Mechanical life		[operations]	25000	25000	25000	25000	
Weights (fixed 3p)		[lbs]	1.06	2.34	2.86	5.45	

Note: for S6 4 poles only for N versions

(1) In 15A = 10 KA @ 277 V AC

(2) In 15A = 35 KA @ 240 V AC 14 KA @ 480Y/277 V AC

Ask ABB for Tmax two-pole version availability

MCP

					T2	T3	
Frame size		[A]			100	225	
Poles		[Nr]			3	3	
Ratings		[A]			20...100	100...200	
Interrupting ratings					S H	S	
	240 V AC	[kA rms]			65 150	65	
	480 V AC	[kA rms]			35 65	35	
	600Y/347 V AC	[kA rms]				10	
	600 V AC	[kA rms]					
	500 V DC	[kA rms]				35	
600 V DC	[kA rms]						
Trip unit							
Adjustable							
Magnetic only	(6...12 x In)				■	■	■
Electronic	PR221DS-I				■	■	
	PR211/P-I						

MCS

				T1N-D	T3S-D	T3S-D	
Rating		[A]		100	150	225	
Poles		[No]		3-4	3-4	3-4	
Magnetic override		[A]		1000	1500	2250	
Rated Voltage	AC (50-60 Hz)	[V]		600Y/347	600Y/347	600Y/347	
	DC	[V]		500	500	500	

	T4					T5					S6			S7	S8
	250					400-600					800			1200	1600-2000-2500
	3-4					3-4					2-3-4			2-3-4	3
	600					600					600			600	600
	600					600					600				
	3500					3500					3000			3000	3000
	N	S	H	L	V	N	S	H	L	V	N	H	L	H	V
	65	100	150	200	200	65	100	150	200	200	65	150	200	100	125
	25	35	65	100	150	25	35	65	100	150	50	65	100	65	100
	18	25	35	65	100	18	25	35	65	100	25	35	42	50	85
	25	35	50	65	100	25	35	50	65	100	35	50	65		
	16	25	35	50	65	16	25	35	50	65	20	35	50		
	■					■					■			■	■
	8.07-205					8.07-205					10.55-268			15.98-406	15.75-400
	4.13-105					5.51-140					8.27-210			8.27-210	15.98-406
	4.07-103.5					4.07-103.5					4.07-103.5			5.45-138.5	9.25-235
	20000					20000					20000			10000	10000
	6.18					8.55					22			37.5	135

	T4				T5				S6			S7	S8
	250				400-600				800			1200	1600-2000-2500
	3				3				3			3	3
	100-150-250				300-400-600				800			1000-1200	1600-2000-2500
	N	S	H	L	N	S	H	L	N	H	L	H	V
	65	100	150	200	65	100	150	200	65	150	200	100	120
	25	35	65	100	25	35	65	100	50	65	100	65	100
	18	25	35	65	18	25	35	65	25	35	42	50	85
	■ ■ ■ ■				■ ■ ■ ■				■ ■ ■			■	■

	T4H-D		T5H-D		S6H-D	S7H-D	S8V-D
	250		400	600	800	1200	2500
	3-4		3-4	3-4	3-4	3-4	3
	3000		5000	6000	10000	20000	35000
	600		600	600	600	600	600
	600		600	600	600	600	600

Accessories for molded case circuit breakers



	Tmax T1	Tmax T2	
Service releases			
Shunt trip - SOR	■	■	
Closing coil			
Undervoltage release - UVR	■	■	
Time-delayed undervoltage release	■	■	
Electric signals			
Contacts:			
2 open/closed contacts on changeover			
1 open/closed contact on changeover and 1 bell alarm	■	■	
3 open/closed contacts on changeover and 1 bell alarm	■	■	
1 circuit breaker open signal, 1 circuit breaker closed signal and 1 bell alarm		■ ⁽¹⁾	
Early making contact for undervoltage release	■ (n°2)	■ (n°2)	
Contacts for signalling circuit breaker racked-in/out		■	
Remote controls			
Solenoid operating mechanism - MOS	■	■	
Stored energy motor operator - MOE and MOE-E			
G geared motor for automatically charging of the closing springs			
Operating mechanisms and locks			
Rotary handle operating mechanism (direct or transmitted version) - RHD/RHE	■	■	
IP54 protection for rotary handle	■	■	
Front flange for lever operating mechanism - FLD			
Key lock in open position			
Padlock for operating lever - PLL	■	■	
Compartment door lock			
Mechanical interlock between two circuit breakers	■	■	
Accessories for electronic trip units			
Front display unit - FDU			
SACE TT1 Test unit		■	
SACE PR212/K signalling unit			
SACE PR010/K signalling unit			
PR021/K signalling unit		■	
SACE PR010/T Test and Configuration Unit			
Automatic transfer switch			
ATS010 (IEC only)			

⁽¹⁾ Pre-cabled version for PR221DS electronic trip unit only

Molded case circuit breakers for specific applications in accordance with IEC 60947-2



			Tmax T1 1p	Tmax T1	Tmax T2	
Circuit breakers for distribution AC-DC	Iu	[A]	160	160	160	
	In	[A]	16...160	16...160	1.6...160	
	Poles	[Nr]	1	3/4	3/4	
	Ue	[V]	(AC) 50 - 60 Hz	240	690	690
		[V]	(DC)	125	500	500
	Icu (380-415 V AC)	[kA]	B	25* (220/230 V AC)	16	
		[kA]	C		25	
		[kA]	N		36	36
		[kA]	S			50
		[kA]	H			70
	[kA]	L			85	
	[kA]	V				
Circuit breakers for zone selectivity	Iu	[A]				
	Poli	[Nr]				
	Ue	[V]	(AC) 50 - 60 Hz			
	Zone selectivity EF					
Circuit breakers for motor protection	Iu	[A]			Tmax T2	
	Poles	[Nr]			160	
	Ue	[V]	(AC) 50 - 60 Hz		3	
	Magnetic only trip unit, IEC 60947-2				690	
	PR221DS-I trip unit, IEC 60947-2				■	
	PR222MP trip unit, IEC 60947-2				■	
	PR211/P trip unit, IEC 60947-2					
PR212MP trip unit, IEC 60947-4-1						
Circuit breakers for applications up to 1000 V	Iu	[A]				
	Poles	[Nr]				
	Icu max	[kA]	1000 V AC			
		[kA]	1000 V DC 4 poles in series			
Switch-disconnectors	Ith	[A]		T1D		
	Ie	[A]		160		
	Poles	[Nr]		125		
	Ue	[V]	(AC) 50 - 60 Hz		3/4	
		[V]	(DC)		690	
	Icm	[kA]			500	
	Icw	[kA]			2.8	
				2		

* For In 16 A and In 20 A: Icu @ 220/230 V AC = 16 kA



	Tmax T3	Tmax T4	Tmax T5	Tmax T6	Isomax S7	Isomax S8
	250	250/320	400/630	630/800/1000	1250/1600	2000/2500/3200
	63...250	20...320	320...630	630...1000	1000...1600	2000...3200
	3/4	3/4	3/4	3/4	3/4	3/4
	690	690	690	690	690	690
	500	750	750	750		
	36	36	36	36		
	50	50	50	50	50	
		70	70	70	65	85
		120	120	100	100	
		200	200			120

		Tmax T4	Tmax T5	Tmax T6		
		250/320	400/630	630/800		
		3/4	3/4	3/4		
		690	690	690		
		■	■	■		

	Tmax T3	Tmax T4	Tmax T5	Tmax T6	Isomax S7	
	250	250/320	400/630	800	1250/1600	
	3	3	3	3	3	
	690	690	690	690	690	
	■	■				
		■	■	■		
		■				
		-	-		■	
					■	

		Tmax T4	Tmax T5	Tmax T6		
		250	400/630	630/800		
		3/4	3/4	3/4		
		20	20	12		
		40	40	40		

	Tmax T3D	Tmax T4D	Tmax T5D	Tmax T6D	Isomax S7D	Isomax S8D
	250	250/320	400/630	630/800/1000	1000/1250/1600	2000/2500/3200
	200	250/320	400/630	630/800/1000	1000/1250/1600	2000/2500/3200
	3/4	3/4	3/4	3/4	3/4	3/4
	690	690	690	690	690	690
	500	750	750	750		
	5.3	5.3	11	30	52.5	85
	3.6	3.6	6	15	25	40

Emax UL Power circuit breakers



UL1066 Power circuit breakers

			E1		E2				
			B-A	N-A	B-A	N-A	S-A	H-A	
Levels of performance									
Frame size		[A]	800	800	1600	800	800	800	
		[A]	1200	1200		1200	1200	1200	
		[A]				1600	1600	1600	
		[A]							
		[A]							
Neutral		[%I _n]	100	100	100	100	100	100	
Rated short circuit current	240 V	[kA]	42	50	42	65	65	85	
	480 V	[kA]	42	50	42	50	65	85	
	600 V	[kA]	42	50	42	50	65	65	
Rated short time current		[kA]	42	50	42	50	65	65	

UL1066 Switches

		E1B-A/MS	E1N-A/MS	E2B-A/MS	E2N-A/MS	E2S-A/MS	
Frame size	[A]	800	800	1600	800	800	
	[A]	1200	1200		1200	1200	
	[A]				1600	1600	
	[A]						
	[A]						
Number of poles		3/4	3/4	3/4	3/4	3/4	
Capacity of neutral pole for four-pole switches	[%I _n]	100	100	100	100	100	
Rated voltage	[V]	600	600	600	600	600	
Rated maximum voltage	[V]	635	635	635	635	635	
Test voltage (1 min. 50/60 Hz)	[kV]	2.2	2.2	2.2	2.2	2.2	
Rated short time current	[kA]	42	50	42	50	65	



	E3				E4					E6			
	N-A	S-A	H-A	V-A	S-A	H-A	V-A	L-A	H-A/f	H-A	V-A	L-A	H-A/f
	2000	800	800	800	3200	3200	3200	3200	3200	4000	4000	4000	4000
	2500	1200	1200	1200	3600	3600	3600	3600	3600	5000	5000	5000	5000
		1600	1600	1600									
		2000	2000	2000									
		2500	2500	2500									
		3200	3200	3200									
	100	100	100	100	50	50	50	50	100	50	50	50	100
	65	85	85	125	85	100	100	125	100	125	125	150	125
	50	65	85	125	65	85	100	125	85	85	125	150	85
	50	65	85	100	65	85	100	100	85	85	100	100	85
	50	65	65	85	65	85	100	100	85	100	100	100	100

	E3N-A/MS	E3S-A/MS	E3V-A/MS	E4S-A/MS	E4H-A/MS	E4V-A/MS	E4H-Af/MS	E6H-A/MS	E6H-Af/MS
	2000	800	800	3200	3200	3200	3200	4000	4000
	2500	1200	1200	3600	3600	3600	3600	5000	5000
		1600	1600						
		2000	2000						
		2500	2500						
		3200	3200						
	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	100	100	100	50	50	50	50	50	100
	600	600	600	600	600	600	600	600	600
	635	635	635	635	635	635	635	635	635
	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	50	65	85	65	85	100	85	100	100

Accessories for Emax UL power circuit breakers

Service releases

Shunt trip/closing coil (YO/YC) and second shunt trip (YO2)

SOR test unit (IEC only)

Undervoltage release (YU)

Time-delay device for undervoltage release (D) (IEC only)

Remote controls

Gearmotor for the automatic charging of the closing springs (M)

Electrical signals

Bell alarm

Bell alarm with remote reset command

Electrical signaling of circuit breaker open/closed ⁽¹⁾

External supplementary electrical signaling of circuit breaker open/closed

Electrical signaling of circuit breaker racked-in/test isolated/racked-out/

Contact signaling closing springs charged

Contact signaling undervoltage release de-energized (C. Aux YU)

Accessories for electronic trip units

External current transformer for neutral conductor

Homopolar toroid for the main power supply grounding conductor (star center of the transformer)

Operating mechanisms and locks

Mechanical operation counter

Lock in open position: key

Lock in open position: padlocks

Circuit breaker lock in racked-in/racked-out/test isolated position

Accessories for lock in racked in/test isolated/racked-out position

Padlock device for safety shutter

Mechanical lock for compartment door

Anti-racking-out device when the springs are charged (FAIL SAFE)

Protection for opening and closing pushbuttons

IP54 door protection

Interlock between circuit breakers

Automatic transfer switch

ATS010 (IEC only)

CAPTION

■ Accessory on request on fixed circuit breaker or moving part

■ Accessory on request on cradle

■ Accessory on request on moving part

⁽¹⁾ For automatic circuit breakers, four auxiliary contacts are included as standard.

Emax air circuit breakers for specific applications according to IEC 60947-2



		E1		E2				
		E1B	E1N	E2B	E2N	E2S	E2L	
Automatic circuit breakers	Poles	3 - 4		3 - 4				
	4p c.-b neutral current-carrying capacity lu (40 °C)	100		100				
	Ue	800-1000-1250-1600	800-1000-1250-1600	1600-2000	1000-1250-1600-2000	800-1000-1250-1600-2000	1250-1600	
	Icu (220...415 V)	690	690	690	690	690	690	
	Ics (220...415 V)	42	50	42	65	85	130	
	Icw (1s)	42	50	42	55	65	10	
	(3s)	36	36	42	42	42	-	
Automatic circuit breakers with full-size neutral conductor	Poles	Standard version		Standard version				
	4p c.-b neutral current-carrying capacity lu (40 °C)							
	Ue							
	Icu (220...415 V)							
	Ics (220...415 V)							
	Icw (1s)							
	(3s)							
Switch-disconnectors	Poles	E1B/MS	E1N/MS	E2B/MS	E2N/MS	E2S/MS		
	lu (40 °C)	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4		
	Ue	800-1000-1250-1600	800-1000-1250-1600	1600-2000	1000-1250-1600-2000	1000-1250-1600-2000		
	Icw (1s)	690	690	690	690	690		
	(3s)	42	50	42	55	65		
	Icm (220...440 V)	36	36	42	42	42		
		88,2	105	88,2	143	187		
Automatic circuit breakers for applications up to 1150 V AC	Poles			E2B/E	E2N/E			
	lu (40 °C)			3 - 4	3 - 4			
	Ue			1600-2000	1250-1600-2000			
	Icu (1000 V)			1150	1150			
	Ics (1000 V)			20	30			
	Icw (1s)			20	30			
				20	30			
Switch-disconnectors for applications up to 1150 V AC	Poles			E2B/E MS	E2N/E MS			
	lu (40 °C)			3 - 4	3 - 4			
	Ue			1600-2000	1250-1600-2000			
	Icw (1s)			1150	1150			
	Icm (1000 V)			20	30			
				40	63			
Switch-disconnectors for applications up to 1000 V DC	Poles	E1B/E MS		E2N/E MS				
	lu (40 °C)	3 - 4		3 - 4				
	Ue	800-1250		1250-1600-2000				
	Icw (1s)	750 (3p)-1000(4p)		750 (3p)-1000(4p)				
	Icm (750 V)	20		25				
	(1000 V)	20		25				
		20		25				
Sectionalizing truck	lu (40 °C)	E1 CS		E2 CS				
		1250		2000				
Earthing switch with making capacity	lu (40 °C)	E1 MTP		E2 MTP				
		1250		2000				
Earthing truck	lu (40°C)	E1 MT		E2 MT				
		1250		2000				

(*) The performance at 1000 V is 50 kA



E3N		E3S		E3		E3V		E3L		E4S		E4		E4V		E6H		E6		E6V			
				3 - 4						3 - 4		3 - 4				3 - 4							
				100						50						50							
2500-3200		1000-1250-1600-2000-2500-3200		800-1000-1250-1600-2000-2500-3200		800-1250-1600-2000-2500-3200		2000-2500		4000		3200-4000		3200-4000		4000-5000-6300				3200-4000-5000-6300			
690		690		690		690		690		690		690		690		690		690		690		690	
65		75		100		130		130		75		100		150		100		100		150		150	
65		75		85		100		130		75		100		150		100		100		125		125	
65		75		75		85		15		75		100		100		100		100		100		100	
65		65		65		65		-		75		75		75		85		85		85		85	
Standard version										E4S/f		E4H/f		E6H/f									
										4		4		4									
										100		100		100									
										4000		3200-4000		4000-5000-6300									
										690		690		690									
										80		100		100									
										80		100		100									
										80		85		100									
										75		75		100									
E3N/MS		E3S/MS		E3V/MS		E3L/MS		E3L/MS		E4S/MS		E4H/MS		E4V/MS		E6H/MS		E6V/MS		E6V/MS		E6V/MS	
3 - 4		3 - 4		3 - 4		3 - 4		3 - 4		3 - 4		3 - 4		4		3 - 4		4		3 - 4		4	
2500-3200		1000-1250-1600-2000-2500-3200		800-1250-1600-2000-2500-3200		800-1250-1600-2000-2500-3200		2000-2500		4000		3200-4000		3200-4000		4000-5000-6300		4000-5000-6300		3200-4000-5000-6300		3200-4000-5000-6300	
690		690		690		690		690		690		690		690		690		690		690		690	
65		75		85		100		130		75		100		150		100		100		150		150	
65		75		85		100		130		75		100		150		100		100		125		125	
143		165		286		286		286		165		220		220		220		220		220		220	
E3H/E				E3V/E				E3L/E				E4H/E				E6H/E							
3 - 4				3 - 4				3 - 4				3 - 4				3 - 4							
1250-1600-2000-2500-3200				1250-1600-2000-2500-3200				1250-1600-2000-2500-3200				3200-4000				4000-5000-6300							
1150				1150				1150				1150				1150							
50				50				50				65				65							
50				50				50				65				65							
50(*)				50(*)				50(*)				65				65							
E3H/E MS				E3V/E MS				E3L/E MS				E4H/E MS				E6H/E MS							
3 - 4				3 - 4				3 - 4				3 - 4				3 - 4							
1250-1600-2000-2500-3200				1250-1600-2000-2500-3200				1250-1600-2000-2500-3200				3200-4000				4000-5000-6300							
1150				1150				1150				1150				1150							
50				50				50				65				65							
105				105				105				143				143							
E3H/E MS				E3V/E MS				E3L/E MS				E4H/E MS				E6H/E MS							
3 - 4				3 - 4				3 - 4				3 - 4				3 - 4							
1250-1600-2000-2500-3200				1250-1600-2000-2500-3200				1250-1600-2000-2500-3200				3200-4000				4000-5000-6300							
750 (3p)-1000(4p)				750 (3p)-1000(4p)				750 (3p)-1000(4p)				750 (3p)-1000(4p)				750 (3p)-1000(4p)							
40				40				40				65				65							
40				40				40				65				65							
40				40				40				65				65							
E3 CS				E3V CS				E3L CS				E4 CS				E6 CS							
3200				3200				3200				4000				6300							
E3 MTP				E3V MTP				E3L MTP				E4 MTP				E6 MTP							
3200				3200				3200				4000				6300							
E3 MT				E3V MT				E3L MT				E4 MT				E6 MT							
3200				3200				3200				4000				6300							



Due to possible developments of standards as well as of materials, the characteristics and dimensions specified in the present catalogue may only be considered binding after confirmation by ABB SACE.

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