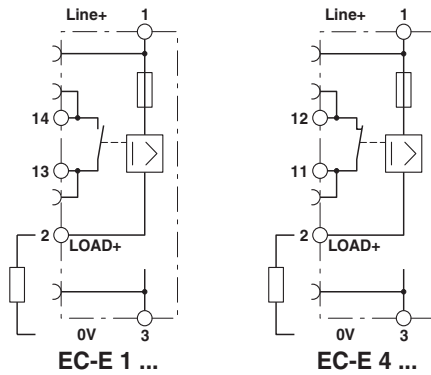


Special terminal blocks

Circuit breakers

EC-E1 and EC-E4 electronic circuit breakers



EC-E1 ...

The EC-E... electronic circuit breaker selectively protects all DC 24 V load circuits on power supply units. A combination of active electronic current limitation for short-circuit and an overload shutdown from $1.1 \times I_N$ onwards ensures that the circuit breaker can react to overloads faster than the power supply unit. In this case, the fault current is constantly restricted to 1.3 to 1.8 times the nominal current.

A complete data sheet is available for the relevant item at www.phoenixcontact.net/eshop for downloading.

For more technical data, drawings and accessories, visit www.phoenixcontact.net/eshop.

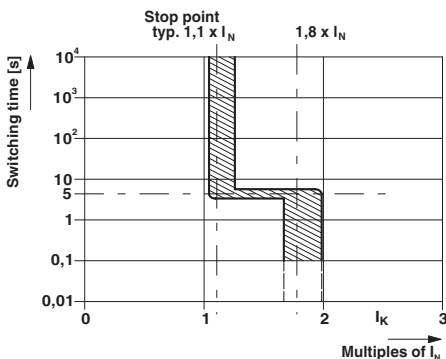
Dimensions		Width	Length	Height NS 35/7,5	
		12.5	80	83	
Max. electrical data					
		U_{max} [V]	Max. \varnothing [mm ²]	AWG	
		24	0.5 - 16	20 - 6	
Rated data		IEC	UL / CUL	CSA	IEC/ EN 60079-7
Rated voltage	[V]	24	-	-	-
Nominal current / cross-section	[A] / [mm ²]	1 / 16	- / -	- / -	- / -
Rated cross-section	[mm ²]	16	-	-	-
Cross-section range	AWG	20 - 6	-	-	-
Connection capacity		Solid	Stranded	Ferrule	
One conductor	[mm ²]	0.5 - 16	0.5 - 16	0.5 - 10	0.5 - 10
Two conductors (of the same type)	[mm ²]	0.5 - 4	0.5 - 4	0.5 - 2.5	-
Two stranded conductors with a TWIN ferrule	[mm ²]				0.5 - 6
Operating data		24 V			
Nominal voltage		Dependent on the article variant selected			
Nominal current	[A]				
Disconnection		Refer to the time/current characteristic curve			
Switch-off time		3 s if $1.1 \times I_N$			
Typical behavior		0.1 s if $> 1.8 \times I_N$			
Switching capacity I_{CN}		Active current limitation			
EC-E1 1A - EC-E1 12A					
Life		10000			
Cycles with $1 \times I_N$					
General data		0 ... 50			
Temperature range	[°C]				
Insulating material		PA-F			
Inflammability class acc. to UL 94		V0			

Ordering data

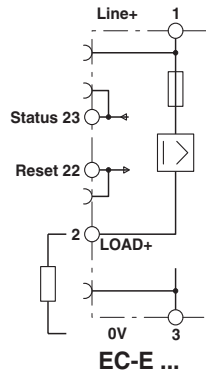
Description	Nominal current	Color	Type	Order No.	Pcs. / Pkt.
Electronic circuit breaker, signal contact: 1 N/O contact	1 A	Black	EC-E1 1A	0903023	6
	2 A	Black	EC-E1 2A	0903024	6
	3 A	Black	EC-E1 3A	0903025	6
	4 A	Black	EC-E1 4A	0903026	6
	6 A	Black	EC-E1 6A	0903028	6
	8 A	Black	EC-E1 8A	0903029	6
	10 A	Black	EC-E1 10A	0903030	6
Electronic circuit breaker, signal contact: 1 N/C contact	12 A	Black	EC-E1 12A	0903031	6
	1 A	Black	EC-E4 1A	0903032	6
	2 A	Black	EC-E4 2A	0903033	6
	3 A	Black	EC-E4 3A	0903034	6
	4 A	Black	EC-E4 4A	0903035	6
	6 A	Black	EC-E4 6A	0903036	6
	8 A	Black	EC-E4 8A	0903037	6
10 A	Black	EC-E4 10A	0903038	6	
12 A	Black	EC-E4 12A	0903039	6	

Accessories

Cont. plug-in bridge, 500 mm long, isolated, can be cut to length, for potential distribution	Blue	FBST 500-PLC BU	2966692	20
	Red	FBST 500-PLC RD	2966786	20
	Gray	FBST 500 TMC-N GY	0901028	10
Screwdriver		SZS 0,6X3,5	1205053	10
Zack marker strip, flat, 10-section		ZBF 12 (see page 494)		



EC-E electronic circuit breakers



EC-E ...

The EC-E electronic circuit breaker selectively protects all DC 24 V load circuits on the power supply units. A combination of active electronic current limiting in the case of a short-circuit and an overload shutdown from $1.1 \times I_N$ ensures that the circuit breaker can react to overloads faster than the power supply unit. In this case, the fault current is always restricted to 1.3 to 1.8 times the nominal current.

A complete data sheet is available for the relevant item at www.phoenixcontact.net/eshop for downloading.

For more technical data, drawings and accessories, visit www.phoenixcontact.net/eshop.

Dimensions	[mm]		
Width	12.5	Length 80	Height NS 35/7,5 83
Max. electrical data			
U_{max} [V]	24	Max. \varnothing [mm ²]	AWG
		0.5 - 16	26 - 6
Rated data			
Rated voltage	[V]	24	
Nominal current / cross-section	[A] / [mm ²]	0.5 / 16	- / -
Rated cross-section	[mm ²]	16	-
Cross-section range	AWG	26 - 6	-
Connection capacity			
One conductor	[mm ²]	Solid 0.5 - 16	Stranded 0.5 - 10
Two conductors (of the same type)	[mm ²]	0.5 - 4	0.5 - 2.5
Two stranded conductors with a TWIN ferrule	[mm ²]		0.5 - 6
Operating data			
Nominal voltage		24 V	
Nominal current	[A]	Dependent on the article variant selected	
Disconnection			
Switch-off time	Refer to the time/current characteristic curve		
Typical behavior	5 s if $1.1 \times I_N$ 0.1 s if $> 1.8 \times I_N$		
Switching capacity I_{CN}			
EC-E 0,5A DC24V - EC-E 12A DC24V	Active current limitation		
Life			
Cycles with $1 \times I_N$	10000		
General data			
Temperature range	[°C]	0 ... 50	
Insulating material	PA-F		
Inflammability class acc. to UL 94	V0		

Ordering data

Description	Nominal current	Color	Type	Order No.	Pcs. / Pkt.
Electronic circuit breaker, with reset input	0.5 A	Black	EC-E 0,5A DC24V	0903041	6
	1 A	Black	EC-E 1A DC24V	0903042	6
	2 A	Black	EC-E 2A DC24V	0903043	6
	3 A	Black	EC-E 3A DC24V	0903044	6
	4 A	Black	EC-E 4A DC24V	0903045	6
	6 A	Black	EC-E 6A DC24V	0903046	6
	8 A	Black	EC-E 8A DC24V	0903047	6
	10 A	Black	EC-E 10A DC24V	0903048	6
	12 A	Black	EC-E 12A DC24V	0903049	6

Accessories

Cont. plug-in bridge, 500 mm long, isolated, can be cut to length, for potential distribution	Blue	FBST 500-PLC BU	2966692	20
	Red	FBST 500-PLC RD	2966786	20
	Gray	FBST 500 TMC-N GY	0901028	10
Screwdriver		SZS 0,6X3,5	1205053	10
Zack marker strip, flat, 10-section		ZBF 12 (see page 494)		

