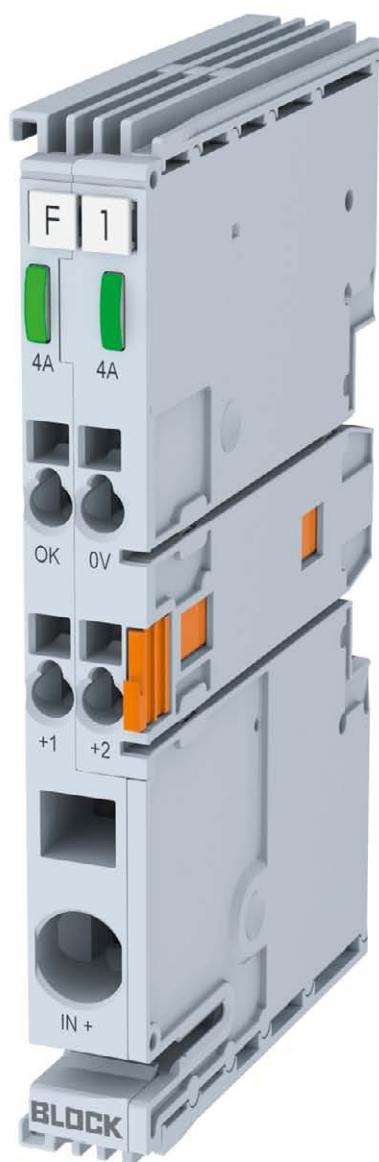


## 2-Channel circuit breaker **EasyB 2-Channel**



### General Data

Efficiency up to 99 %
Multi-coloured LED and status display button
Up to 40 fuse channels stackable side by side
With thermomagnetic characteristic
Ambient temperature -25 °C to +55 °C / +70 °C
Protection index IP 20

### Advantages

Compact design - 2 independent channels in 12 mm width
Automatic channel assignment
Additional load outputs through output expanders mountable side by side

### Applications

Electronic circuit breaker with thermomagnetic characteristic with alarm signal forwarded for tripped and switched off channels to the connected channels. Starter version with fuse for 24 V loads.

### Standards

Safety:  
EN 60950-1, EN 50178, EN/IEC 60204-1

EMC:  
EN 61000-6-2 (interference immunity), EN 61000-6-3 (emitted interference)

CE acc. to 2014/30/EU

### Approvals **ERC**

UL 508 (prepared), UL 2367 (prepared), GL (prepared)

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## 2-Channel circuit breaker EasyB 2-Channel

Typ		EB-2724-2020-0	EB-2724-2040-0	EB-2724-2060-0	EB-2724-2080-0
Electrical data	Special features				
	Available from	Q2 2017	Q2 2017	Q2 2017	Q2 2017
	Input				
	Input rated voltage	24 Vdc	24 Vdc	24 Vdc	24 Vdc
	Input voltage range	18 - 30 Vdc	18 - 30 Vdc	18 - 30 Vdc	18 - 30 Vdc
	Maximal residual ripple of supplied input voltage	3 %	3 %	3 %	3 %
	Max. total input current	2 A	4 A	6 A	8 A
	Max. input current for each pole of terminal	10 A (-), 40 A (+)	10 A (-), 40 A (+)	10 A (-), 40 A (+)	10 A (-), 40 A (+)
	Required input voltage for turning-on of outputs	17,5 V (Turn-off Threshold 16,7 V), ± 0,7 V	17,5 V (Turn-off Threshold 16,7 V), ± 0,7 V	17,5 V (Turn-off Threshold 16,7 V), ± 0,7 V	17,5 V (Turn-off Threshold 16,7 V), ± 0,7 V
	Max. power losses	0,4 W	0,4 W	0,4 W	0,4 W
Over voltage protection	Suppressor diode 33 V	Suppressor diode 33 V	Suppressor diode 33 V	Suppressor diode 33 V	
Stand-by current	12 mA @ 24 V	12 mA @ 24 V	12 mA @ 24 V	12 mA @ 24 V	
Power losses in stand-by mode	0,3 W @ 24 V	0,3 W @ 24 V	0,3 W @ 24 V	0,3 W @ 24 V	
Turn on capacity	70 mF @ 24 Vdc / 2,5 mm <sup>2</sup> / 2,5 m	80 mF @ 24 Vdc / 2,5 mm <sup>2</sup> / 2,5 m	80 mF @ 24 Vdc / 2,5 mm <sup>2</sup> / 2,5 m	80 mF @ 24 Vdc / 2,5 mm <sup>2</sup> / 2,5 m	
Output					
Output rated voltage	24 Vdc	24 Vdc	24 Vdc	24 Vdc	
Output rated current	2 x 1 A	2 x 2 A	2 x 3 A	2 x 4 A	
Maximum voltage drop between input and output	24 mV	29 mV	33 mV	34 mV	
Initialization time of module	27 ms	27 ms	27 ms	27 ms	
Turn-on delay of outputs	0 ms	0 ms	0 ms	0 ms	
Waiting periode after switch-off of an output	500 ms (Short circuit) .. 5 s (Overload)	500 ms (Short circuit) .. 5 s (Overload)	500 ms (Short circuit) .. 5 s (Overload)	500 ms (Short circuit) .. 5 s (Overload)	
Parallel use of outputs	Not allowed	Not allowed	Not allowed	Not allowed	
Serial use of outputs	not allowed	not allowed	not allowed	not allowed	
Resistance to reverse feed max.	35 Vdc	35 Vdc	35 Vdc	35 Vdc	
Efficiency	99,0 %	99,0 %	99,0 %	99,0 %	
Output limited current	-	-	-	-	
Signaling					
Bus communication	Collective notification signal bypassed	Collective notification signal bypassed	Collective notification signal bypassed	Collective notification signal bypassed	
Status indicator	LED (red, green, orange)	LED (red, green, orange)	LED (red, green, orange)	LED (red, green, orange)	
Signal output	Output status, short circuit proof high = Channel on, low = Channel off, fault	Output status, short circuit proof high = Channel on, low = Channel off, fault	Output status, short circuit proof high = Channel on, low = Channel off, fault	Output status, short circuit proof high = Channel on, low = Channel off, fault	
Signal output (ON/OFF/Reset)	-	-	-	-	
Environment					
Type of cooling	Natural convection	Natural convection	Natural convection	Natural convection	
Ambient temperature	-25 °C ..+70 °C	-25 °C ..+70 °C	-25 °C ..+70 °C	-25 °C ..+70 °C	
Storage temperature	-25 °C ... +85 °C	-25 °C ... +85 °C	-25 °C ... +85 °C	-25 °C ... +85 °C	
Derating	-	-	-	-	
Relative humidity	5 .. 96 %, without condensation	5 .. 96 %, without condensation	5 .. 96 %, without condensation	5 .. 96 %, without condensation	
Required minimum spacing (left/right)	0 mm	0 mm	0 mm	0 mm	
Required minimum spacing (over/under)	30 mm	30 mm	30 mm	30 mm	
Safety and protection					
Protection index	IP 20	IP 20	IP 20	IP 20	
Safety class	III, without PE connection	III, without PE connection	III, without PE connection	III, without PE connection	
Degree of pollution	2	2	2	2	
Order numbers					
Order Number	<b>EB-2724-2020-0</b>	<b>EB-2724-2040-0</b>	<b>EB-2724-2060-0</b>	<b>EB-2724-2080-0</b>	



## 2-Channel circuit breaker EasyB 2-Channel

		EB-2724-2120-0	EB-2724-2160-0	
Electrical data	Typ	EB-2724-2120-0	EB-2724-2160-0	
	Special features			
	Available from	Q2 2017	Q2 2017	
	Input			
	Input rated voltage	24 Vdc	24 Vdc	
	Input voltage range	18 - 30 Vdc	18 - 30 Vdc	
	Maximal residual ripple of supplied input voltage	3 %	3 %	
	Max. total input current	12 A	16 A	
	Max. input current for each pole of terminal	10 A (-), 40 A (+)	10 A (-), 40 A (+)	
	Required input voltage for turning-on of outputs	17,5 V (Turn-off Threshold 16,7 V), ± 0,7 V	17,5 V (Turn-off Threshold 16,7 V), ± 0,7 V	
Max. power losses	0,6 W	0,9 W		
Over voltage protection	Suppressor diode 33 V	Suppressor diode 33 V		
Stand-by current	12 mA @ 24 V	12 mA @ 24 V		
Power losses in stand-by mode	0,3 W @ 24 V	0,3 W @ 24 V		
Turn on capacity	70 mF @ 24 Vdc / 2,5 mm <sup>2</sup> / 2,5 m	70 mF @ 24 Vdc / 2,5 mm <sup>2</sup> / 2,5 m		
Output				
Output rated voltage	24 Vdc	24 Vdc		
Output rated current	2 x 6 A	2 x 8 A		
Maximum voltage drop between input and output	54 mV	72 mV		
Initialization time of module	27 ms	27 ms		
Turn-on delay of outputs	0 ms	0 ms		
Waiting periode after switch-off of an output	500 ms (Short circuit) .. 5 s (Overload)	500 ms (Short circuit) .. 5 s (Overload)		
Parallel use of outputs	Not allowed	Not allowed		
Serial use of outputs	not allowed	not allowed		
Resistance to reverse feed max.	35 Vdc	35 Vdc		
Efficiency	99,0 %	99,0 %		
Output limited current	-	-		
Signaling				
Bus communication	Collective notification signal bypassed	Collective notification signal bypassed		
Status indicator	LED (red, green, orange)	LED (red, green, orange)		
Signal output	Output status, short circuit proof high = Channel on, low = Channel off, fault	Output status, short circuit proof high = Channel on, low = Channel off, fault		
Signal output (ON/OFF/Reset)	-	-		
Environment				
Type of cooling	Natural convection	Natural convection		
Ambient temperature	-25 °C ..+70 °C	-25 °C ..+55 °C		
Storage temperature	-25 °C ... +85 °C	-25 °C ... +85 °C		
Derating	-	-		
Relative humidity	5 .. 96 %, without condensation	5 .. 96 %, without condensation		
Required minimum spacing (left/right)	0 mm	0 mm		
Required minimum spacing (over/under)	30 mm	30 mm		
Safety and protection				
Protection index	IP 20	IP 20		
Safety class	III, without PE connection	III, without PE connection		
Degree of pollution	2	2		
Order numbers				
Order Number	EB-2724-2120-0	EB-2724-2160-0		

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## 2-Channel circuit breaker **EasyB 2-Channel**

Mechanical data	Type	Terminals output, (spring clamp terminal)	Terminals input, (spring clamp terminal)	Terminals signalling, (spring clamp terminal)	Mounting position	Weight	Dimension picture (in mm)						
							A	B	C	D	E	F	G
	EB-2724-2020-0	max 2,5 mm <sup>2</sup> (2 x "+")	max. 16 mm <sup>2</sup>	max. 2,5 mm <sup>2</sup>	horizontal for standard rail DIN TS35	0.039 kg	④ 61.2	53.7	64.5	14.8	99.3	51.7	12
	EB-2724-2040-0	max 2,5 mm <sup>2</sup> (2 x "+")	max. 16 mm <sup>2</sup>	max. 2,5 mm <sup>2</sup>	horizontal for standard rail DIN TS35	0.039 kg	④ 61.2	53.7	64.5	14.8	99.3	51.7	12
	EB-2724-2060-0	max 2,5 mm <sup>2</sup> (2 x "+")	max. 16 mm <sup>2</sup>	max. 2,5 mm <sup>2</sup>	horizontal for standard rail DIN TS35	0.039 kg	④ 61.2	53.7	64.5	14.8	99.3	51.7	12
	EB-2724-2080-0	max 2,5 mm <sup>2</sup> (2 x "+")	max. 16 mm <sup>2</sup>	max. 2,5 mm <sup>2</sup>	horizontal for standard rail DIN TS35	0.039 kg	④ 61.2	53.7	64.5	14.8	99.3	51.7	12
	EB-2724-2120-0	max 2,5 mm <sup>2</sup> (2 x "+")	max. 16 mm <sup>2</sup>	max. 2,5 mm <sup>2</sup>	horizontal for standard rail DIN TS35	0.039 kg	④ 61.2	53.7	64.5	14.8	99.3	51.7	12
	EB-2724-2160-0	max 2,5 mm <sup>2</sup> (2 x "+")	max. 16 mm <sup>2</sup>	max. 2,5 mm <sup>2</sup>	horizontal for standard rail DIN TS35	0.039 kg	④ 61.2	53.7	64.5	14.8	99.3	51.7	12

### Dimension pictures

