

POWER COMPACT

POWER MINI

ECONOMY SMART
ECONOMY REMOTE
BASIC SMART
BASIC FIX



CIRCUIT BREAKERS



1-CHANNEL CIRCUIT BREAKERS



HERMES
AWARD
2016
NOMINATED



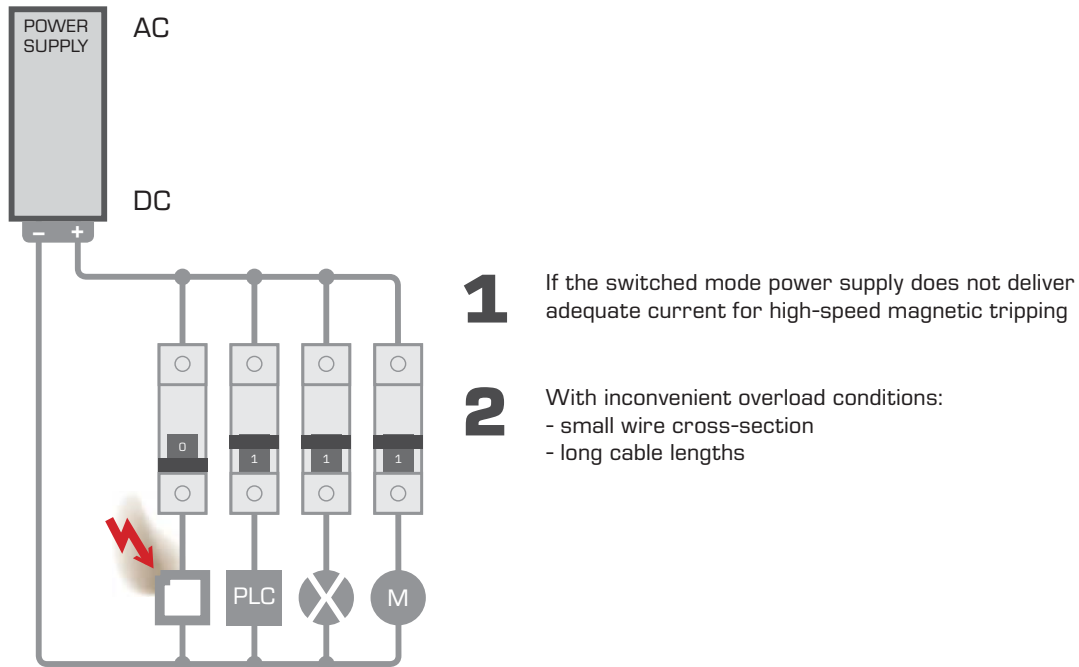
SUBJECT TO CHANGE

CIRCUIT BREAKERS

AREAS OF APPLICATION

Electronic circuit breakers are used for selective protection of DC circuits. They protect circuits against overcurrents and short circuits with a much higher degree of precision than classic circuit breakers.

PHYSICAL LIMITS FOR CIRCUIT BREAKER USE



GENERAL ADVANTAGES OF BLOCK ELECTRONIC CIRCUIT BREAKERS

- Reliable tripping also for high cable impedances
- Universally suitable due to individually adjustable current per channel
- Remote restart of tripped channels possible
- Inrush current of system is distributed through sequential power-up of the channels

FUNCTION

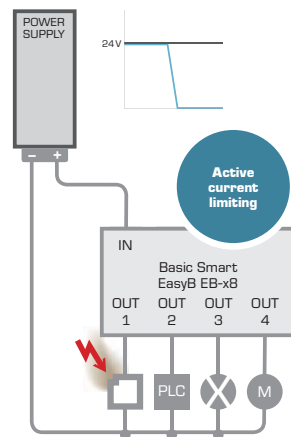
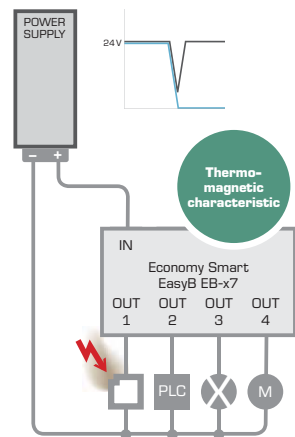
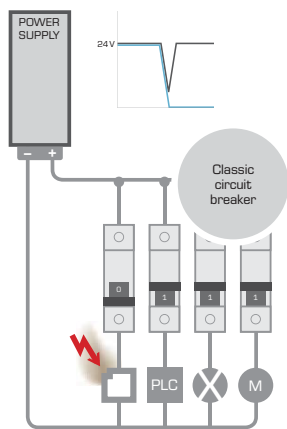
Electronic circuit breakers are designed for the special behaviour of switched mode power supplies and the DC 24 V loads they supply. They distribute the load current to several circuits and protect loads and wiring even for long cable lengths and small cross-sections.

TRIPPING FUNCTION

The BLOCK electronic circuit breakers are designed for a variety of requirements in machines and devices. Available are two different tripping options.

THE ECONOMICAL OVERCURRENT AND POWER PROTECTION

Electronic circuit breakers with thermomagnetic characteristics provide an economical alternative to conventional circuit breakers. The shutdown function ensures safe tripping even with high line impedance.



ACTIVE CURRENT LIMITING FOR SENSIBLE LOADS

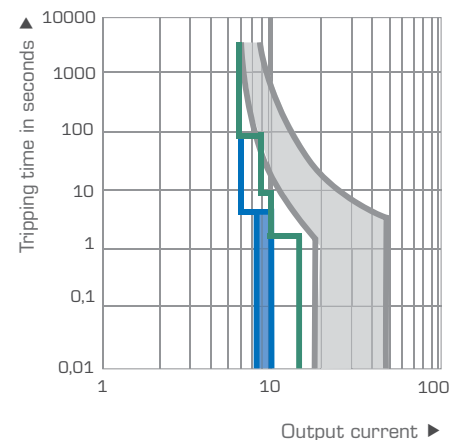
This module actively limits the overcurrent of each circuit to a maximum of 1.7 times the adjusted current. In case of an overcurrent, a selective shutdown occurs for affected circuits only. For non-affected circuits a drop in voltage is reliably avoided.

COMPARISON OF THE TRIPPING CURVES

6A
Economy Smart
(Thermomagnetic
characteristic)

6A
Circuit breaker (B-characteristic) to 24 V DC

6A
Basic Smart
(Active current limiting)



Please note

For classic circuit breakers as well as electronic circuit breakers with thermomagnetic characteristics, a short circuit can cause the DC supply voltage to drop for a few milliseconds until the faulty path shuts down. The severity of the voltage drop is dependent on the line resistance and the overcurrent capability of the feeding power supply. A drop in voltage can be reliably avoided only through active current limiting.

ELECTRONIC 1-CHANNEL CIRCUIT BREAKERS

1-CHANNEL CIRCUIT BREAKER MODULES



Circuit breakers

A range of versions with thermomagnetic or current limiting characteristics. Optionally available with data transfer to other modules for external evaluation and control.

ADDITIONAL MODULES



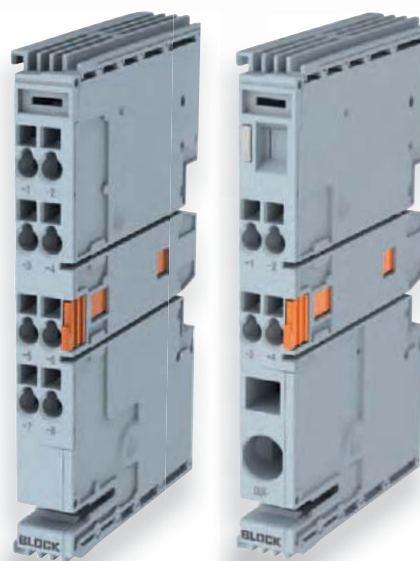
Communication module

Modbus RTU interface for left-sided arrangement on circuit breakers incl. potential-free signal contacts.



Output distribution module

For right-sided arrangement on circuit breakers. Provides eight further outlets for the channel to be contacted.



Potential collective terminal

Potential collective terminal to feed back the 0 V signal to the power supply as a replacement for the series terminal.

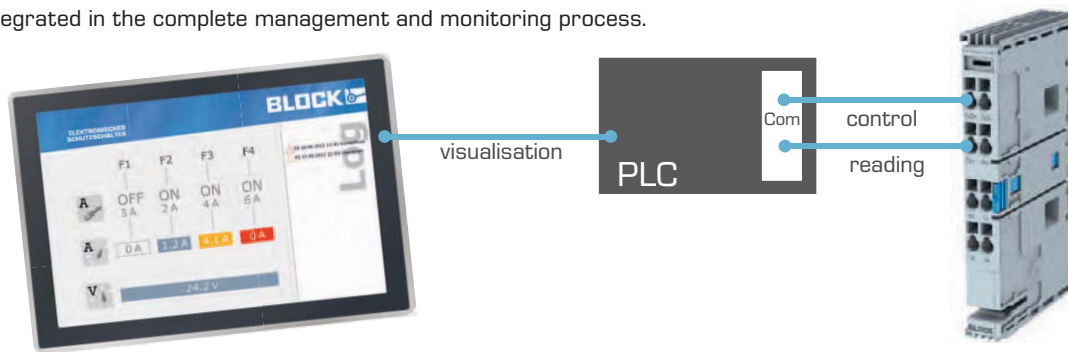
GENERAL ADVANTAGES OF 1-CHANNEL CIRCUIT BREAKERS

- 24 Vdc 1-Channel circuit breaker system
- Optional bus connection via communication module
- Optionally with current limiting or thermomagnetic characteristic
- Up to 40 circuit breakers mountable side by side
- Automatic feedthrough of all signal levels
- Optional undervoltage shutdown in combined network
- Additional load outlets through output distribution modules mountable side by side

COMMUNICATION WITH THE CENTRAL CONTROL SYSTEM USING THE COMMUNICATION MODULE

Intelligent overcurrent protection

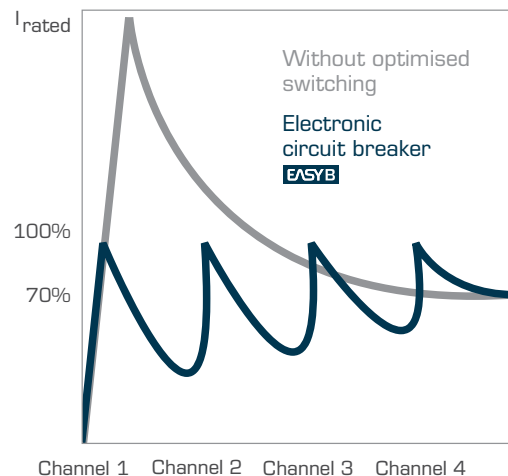
Integrated in the complete management and monitoring process.



The individual channels can exchange important information and forward this to a connected communication module. The communication module provides this information to a higher-level controller. Information such as the current channel status, including the current presently flowing and the input voltage applied, is therefore easy and quick to access.

SELECTIVE LOAD-DEPENDENT SWITCH-ON

The output channels of the communicating circuit breaker are time-delayed and have a load-dependent connection. As soon as the variable disconnection current of the output channel falls below the required level, the next channel is connected within the shortest possible time. The starting current of the whole device is levelled off, as the power supply must never be overdimensioned.



SUBJECT TO CHANGE

CIRCUIT BREAKERS

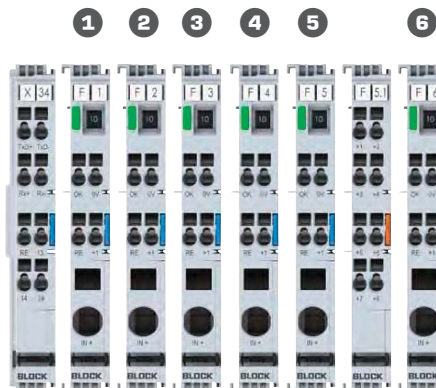
SETTING THE TRIPPING CURRENT

As the first 1-channel circuit breaker, EasyB also offers the option of setting the tripping current via the communication bus. Warehousing facilities can be greatly simplified and a potential error source eliminated during system start-up. For series production of machines in particular, the automatic setting of the tripping current also enables a high level of potential savings during system start-up. The digital setting of the tripping current is nonetheless not a necessity. Versions with preset tripping currents or rotary switch are also available.



AUTOMATIC ADDRESSING

The channels are automatically addressed during switch-on by a process developed by BLOCK. An additional and time-consuming working step to manually assign addresses is now a thing of the past – this is particularly an advantage in the event of system standstills and when components need to be replaced quickly.



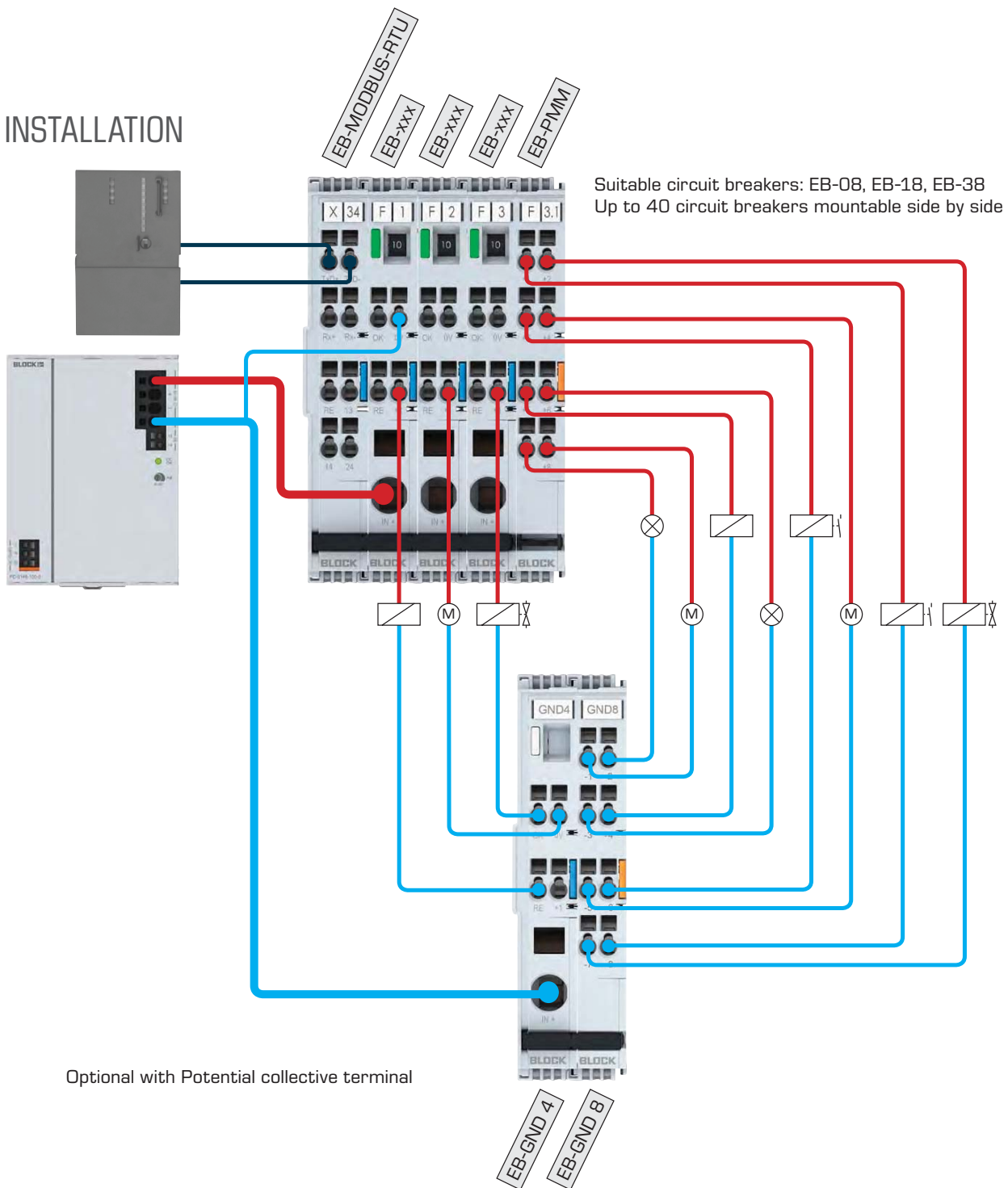
Addressing is performed automatically during switch-on

Counting starts to the left at 1

Simplified extension and replacement in comparison to existing solutions

Addressing possible for up to three output distribution modules per channel

INSTALLATION



TEMPERATURE RANGE

The modules operate in a wide temperature range and are suitable for exceptional loads in harsh industrial environments.

- Wide temperature range from -25 to +70°C

COMBINATION OF VARIOUS CIRCUIT BREAKER VERSIONS:

The circuit breakers can be arranged as desired. When mixing channels with and without communication interfaces, the function of the group status signal is retained.

ELECTRONIC 1-CHANNEL CIRCUIT BREAKER EB-27

Electronic circuit breaker with thermomagnetic characteristic with alarm signal forwarded for triggered and disabled channels to the connected channels. Starter version for protection of 24V circuits.

FEATURES

Preset tripping currents: 1 - 10A

Thermomagnetic characteristic

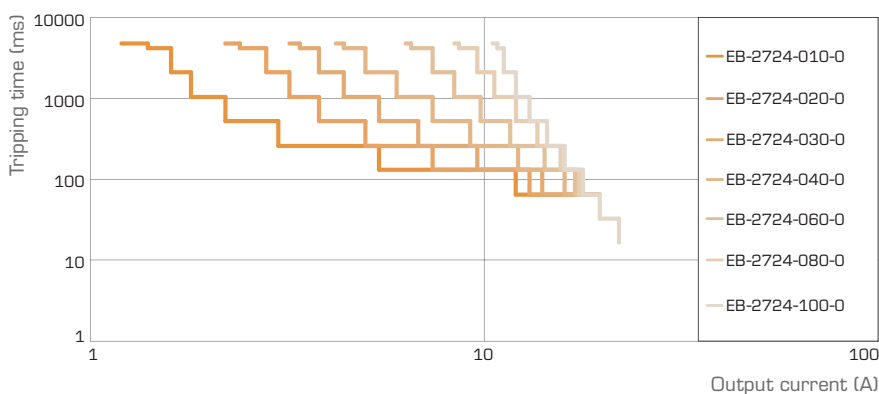
Up to 40 fuse channels mountable side by side

VERSIONS

SINGLE-CHANNEL			
24 Vdc 1 A	24 Vdc 2 A	24 Vdc 3 A	24 Vdc 4 A
24 Vdc 6 A	24 Vdc 8 A	24 Vdc 10 A	



TRIPPING CHARACTERISTIC



HIGHLIGHTS

COMMON MESSAGE FOR
TRIPPED/SWITCHED OFF
CHANNELS

RELIABLE SWITCH-ON OF
HIGH-CAPACITY LOADS
(>40.000 μ F)

AUTOMATIC FEEDTHROUGH
OF ALL SIGNAL LEVELS

FLEXIBLE ADJUSTMENT TO
RESPECTIVE CIRCUMSTANCES

STATUS LED

SECOND LOAD OUTPUT



GL/UL approval pending

ELECTRONIC 1-CHANNEL CIRCUIT BREAKER EB-28

Electronic circuit breaker with current limiting characteristic with alarm signal forwarded for triggered and disabled channels to the connected channels. Starter version for protection of 24 V circuits if active current limiting is required.

FEATURES

Preset tripping currents: 1 - 10 A

Active current limiting

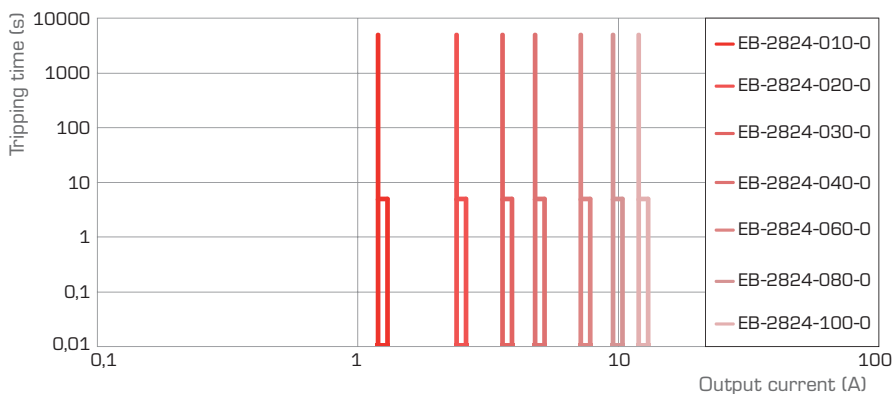
Up to 40 fuse channels mountable side by side

VERSIONS

SINGLE-CHANNEL			
24 Vdc 1 A	24 Vdc 2 A	24 Vdc 3 A	24 Vdc 4 A
24 Vdc 6 A	24 Vdc 8 A	24 Vdc 10 A	



TRIPPING CHARACTERISTIC



HIGHLIGHTS

COMMON MESSAGE FOR
TRIPPED/SWITCHED OFF
CHANNELS

RELIABLE SWITCH-ON OF
HIGH-CAPACITY LOADS
(>70.000 µF)

FLEXIBLE ADJUSTMENT TO
RESPECTIVE CIRCUMSTANCES

STATUS LED

SECOND LOAD OUTPUT



GL/UL approval pending

ELECTRONIC 1-CHANNEL CIRCUIT BREAKER EB-08, EB-18, EB-38

Electronic circuit breaker with current limiting characteristic and comprehensive communication with the connected modules. Suitable as advanced circuit breaker for 24V loads with option of reading more detailed current supply parameters and actively controlling the channels.

FEATURES

EB-08: Tripping currents adjustable via rotary switch or interface: 0,5 - 10 A

EB-18: Preset tripping currents:
1 - 10 A

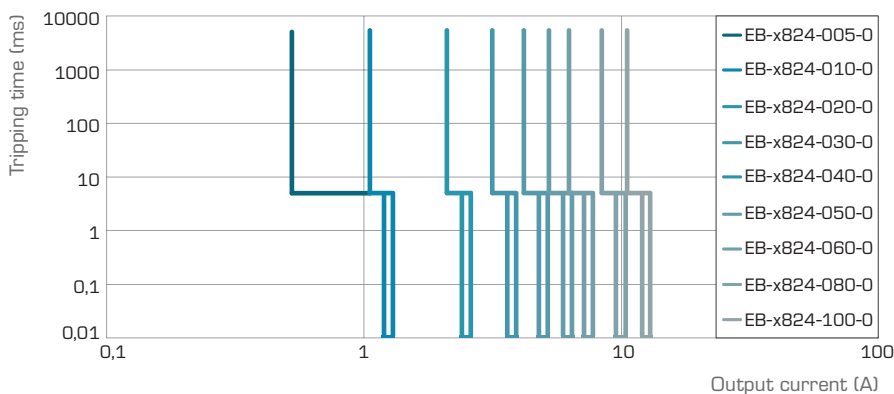
EB-38: Tripping currents adjustable via interface: 0,5 - 10 A

VERSIONS

SINGLE-CHANNEL			
24Vdc 0.5A	24Vdc 1A	24Vdc 2A	24Vdc 3A
24Vdc 4A	24Vdc 5A	24Vdc 6A	24Vdc 8A
24Vdc 10A			



TRIPPING CHARACTERISTIC



HIGHLIGHTS

COMMON MESSAGE FOR
TRIPPED/SWITCHED OFF
CHANNELS

COLLECTIVE RESET INPUT

RELIABLE SWITCH-ON OF
HIGH-CAPACITY LOADS
(>70.000 µF)

AUTOMATIC FEEDTHROUGH
OF ALL SIGNAL LEVELS

FLEXIBLE ADJUSTMENT TO
RESPECTIVE CIRCUMSTANCES

TRANSMISSION OF ACTUAL
OUTPUT CURRENTS

STATUS LED

COLLECTIVE RESET INPUT



GL/UL approval pending

COMMUNICATION MODULE FOR COMMUNICATION CONNECTION

Communication module as interface for connecting a higher-level controller. The communication module is compatible with circuit breakers EB-08, EB-18 und EB-38.

FEATURES

Interface standard: MODBUS RTU

Information gathering and forwarding from up to 40 circuit breaker channels

VERSIONS

MODBUS RTU

MODBUS
RTU



HIGHLIGHTS

TRANSMISSION STANDARD
RS 485 AND RS 422

INTERNAL TERMINATING RESISTORS CAN BE CONNECTED

MODBUS RTU CONFIGURATION VIA DIP SWITCH

ISOLATED SIGNAL CONTACT:
CHANNEL CURRENT >90 %

ISOLATED SIGNAL CONTACT:
CHANNEL TRIPPED OR SWITCHED OFF



GL/UL approval pending

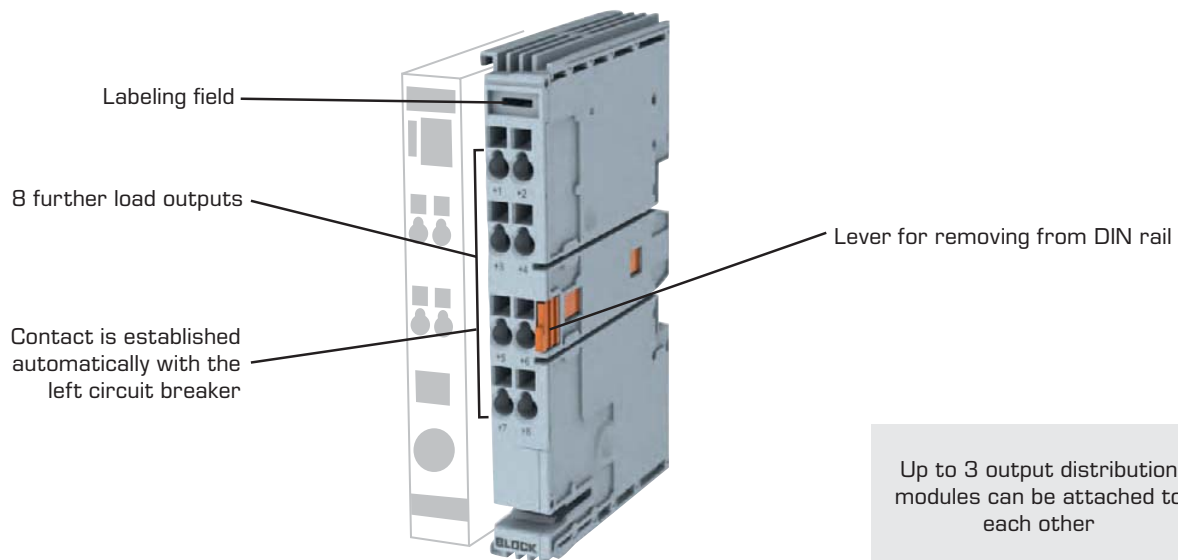


SUBJECT TO CHANGE

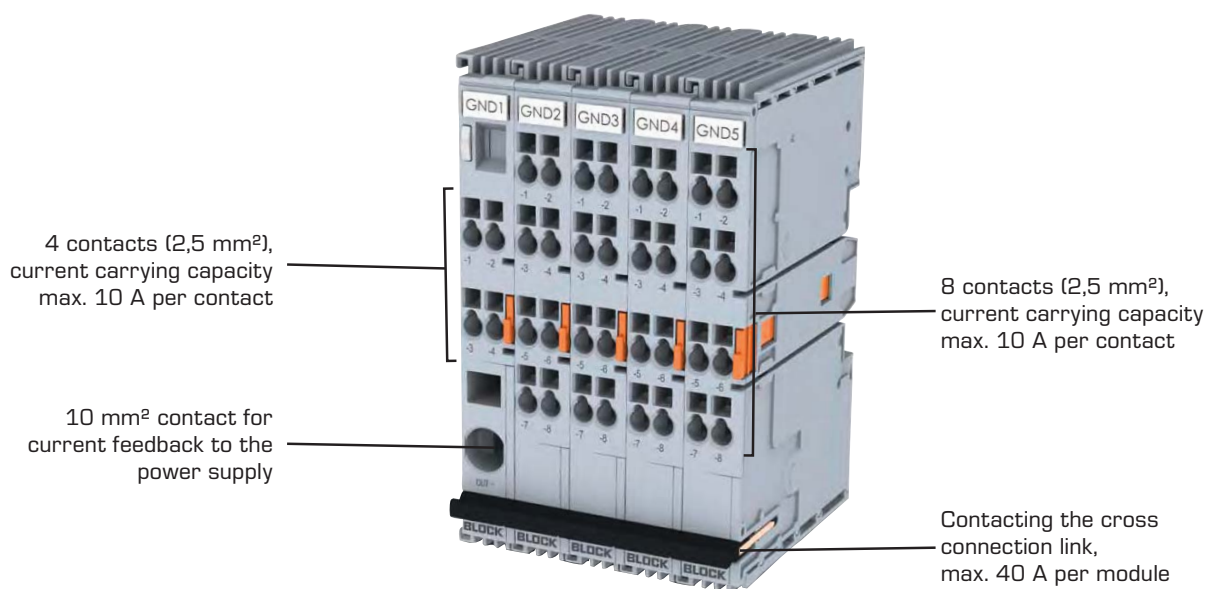
CIRCUIT BREAKERS

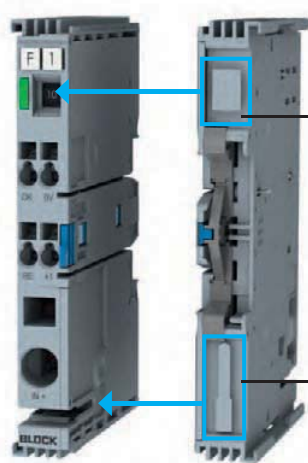
ACCESSOIRES

OUTPUT DISTRIBUTION MODULE



POTENTIAL COLLECTIVE TERMINAL





To close the opening of the current selector

To laterally close the opening of the cross connection link



Cross connection link
EB-BARx

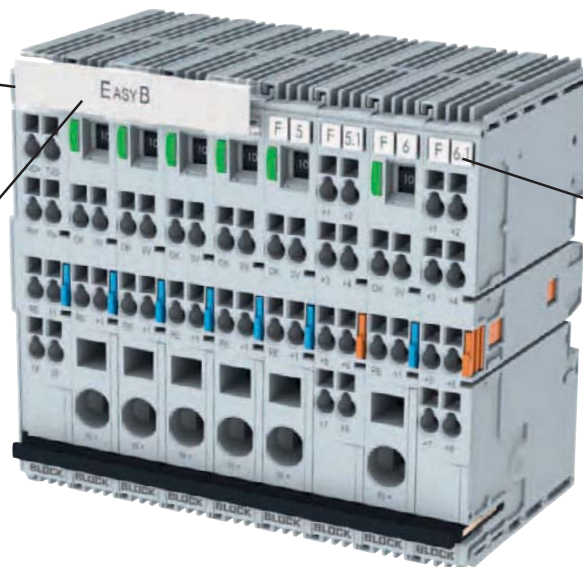


Lateral cover for the left module EB-COV

LABELING

Labeling brackets
EB-MARK20

Labeling strips
11 mm x 50 mm
EB-MARK21

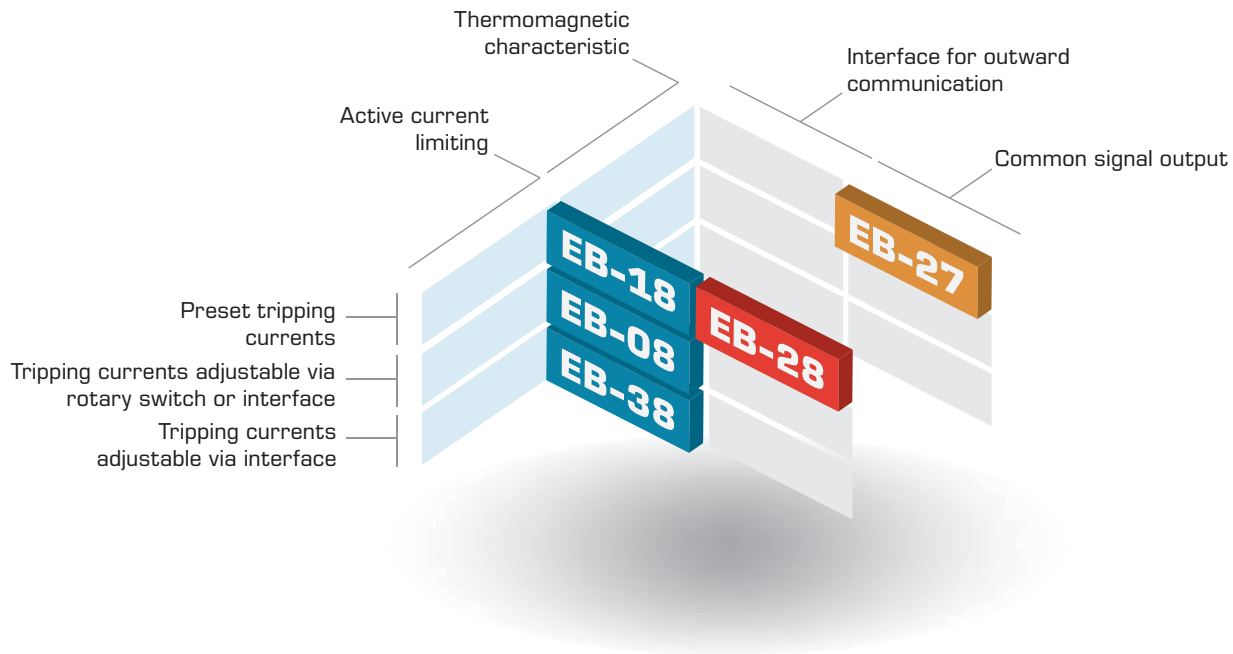


Labeling plate
5 mm
EB-MARK1

SUBJECT TO CHANGE

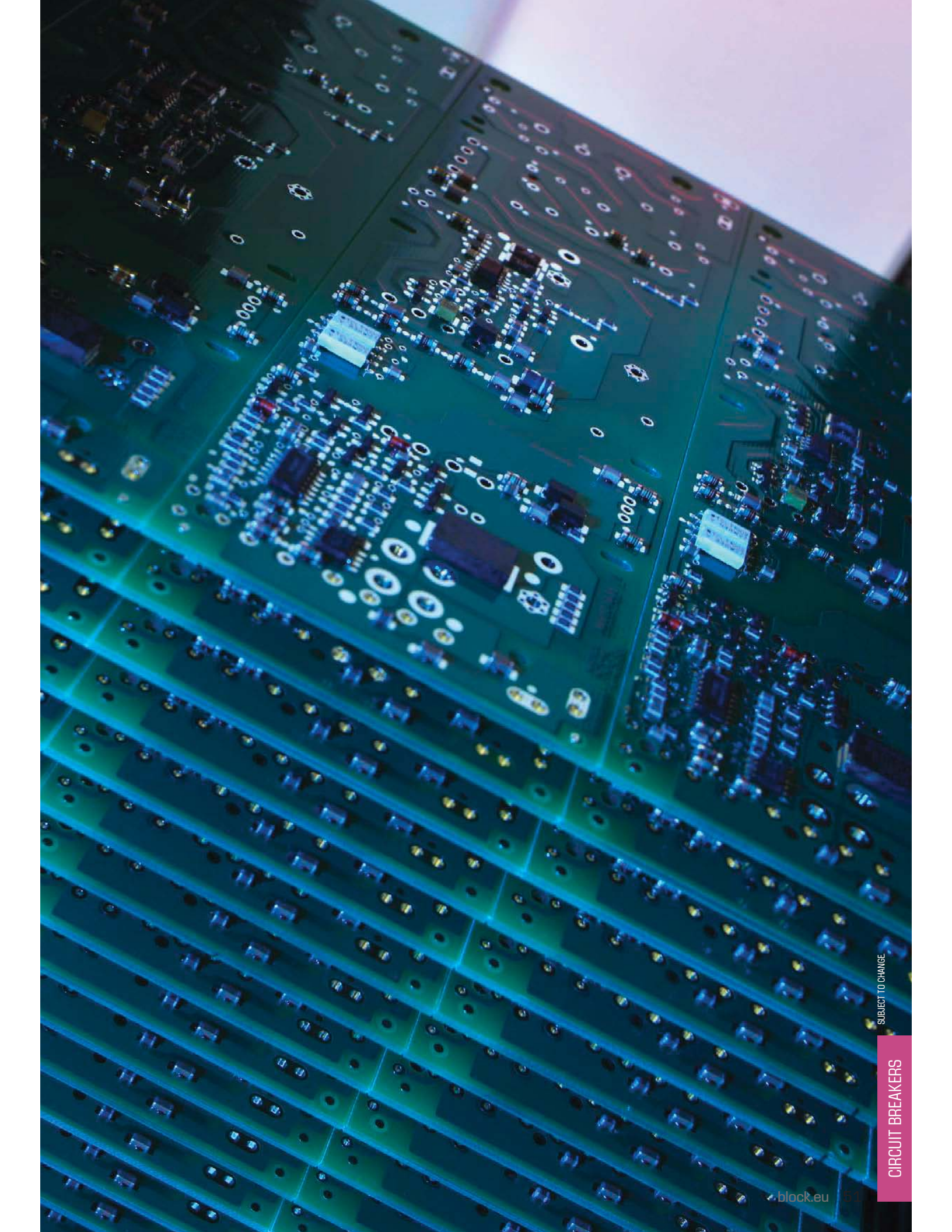
CIRCUIT BREAKERS

DECISION SUPPORT 1-CHANNEL CIRCUIT BREAKER EASYB



FEATURES

EB-2724-XX0-0	EB-2824-XX0-0	EB-0824-100-0	EB-1824-XX0-0	EB-3824-100-0	
■					Thermomagnetic characteristic
	■	■	■	■	Current limiting 1,25 x tripping current
		■	■	■	Communication interface
		■	■	■	Automatic addressing of channels
		■	■	■	Common reset
		■	■	■	Selective switch-on at $U_{in} > 18V$, load-dependent
■		■	■	■	Current detection and display > 90 % of tripping current
■					Inrush capacity > 40 000 μF
	■	■	■	■	Inrush capacity > 70 000 μF
■	■		■		Preset tripping currents
		■			Tripping currents adjustable via rotary switch or interface
		■		■	Tripping currents adjustable via interface
■	■				Second load output
		■	■	■	Undervoltage switch-off as group
■	■				Undervoltage switch-off on individual basis
■	■	■	■	■	ON/OFF button
■	■	■	■	■	Labeling option
■	■	■	■	■	Coloured status indicator on button
■	■	■	■	■	Common message for tripped/switched off channels
■					Lever orange
	■				Lever red
		■	■	■	Lever blue



SUBJECT TO CHANGE

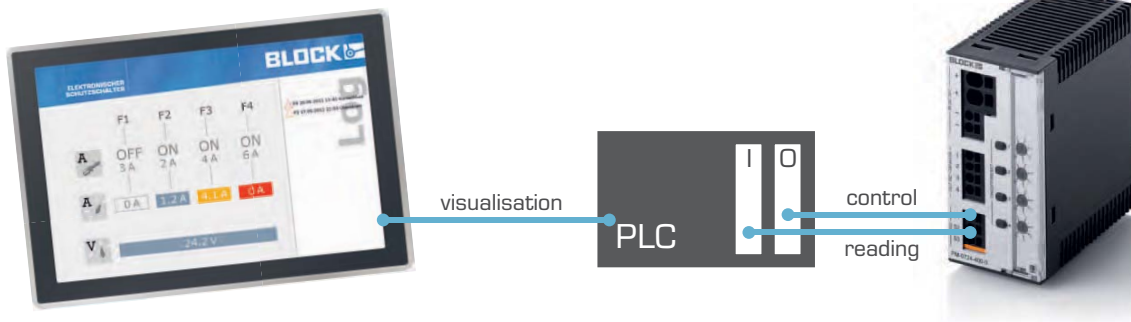
CIRCUIT BREAKERS

MULTICHANNEL CIRCUIT BREAKERS

Communication with the central control system using only two lines

Intelligent overcurrent protection

Integrated in the complete management and monitoring process.

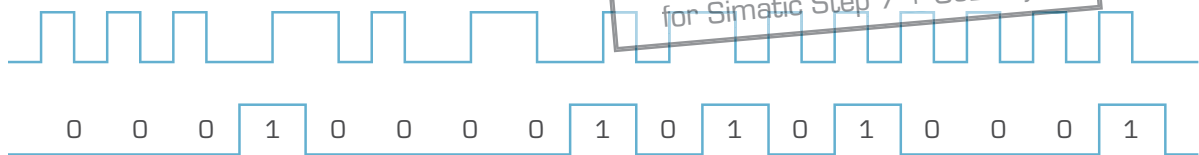


In conjunction with a higher-level control system, the circuit breakers enable any output channel to be actively switched on/off via a digital input and output, tripped circuits to be reset and, at the same time, the reading of current operating and fault states.

Diagnostics options:

PLC output

PLC input



Short protocol:

17 bit data –
minimum transmission time 1.2 seconds

- Operating states
= on or off per channel
- Error states
= overcurrent or tripped per channel

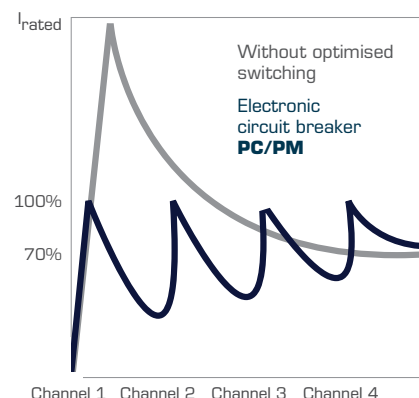
Extended protocol:

89 bit data –
minimum transmission time 6.3 seconds

- Actual input voltage
- Set rated currents per channel
- Actual current per channel (only applies to the BASIC SMART version)

SEQUENTIAL SWITCHING

The power on of integrated output channels is time-delayed and load-dependent. As soon as the adjusted trip current of the output channel falls below, the next channel will be switched on. The inrush current of the whole device is levelled off, as the overdimensioning of the power supply is not necessary.

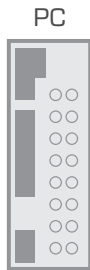


SLIM DESIGN FREES UP AMPLE CABINET SPACE

The comparison of 8 protected circuits clearly demonstrates the reduced space requirement – a width of only 5.25 mm per channel for the Power Compact electronic circuit breaker.

Space requirement
8 channels

42 mm



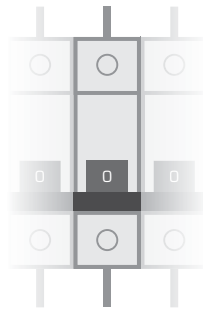
Circuit breaker
Power Compact

Width: 5.25 mm / channel

Space requirement
8 channels

Factor 3.4

144 mm



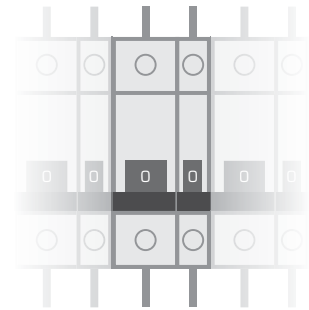
Circuit breaker

Width: 18 mm / channel

Space requirement
8 channels

Factor 5.1

216 mm



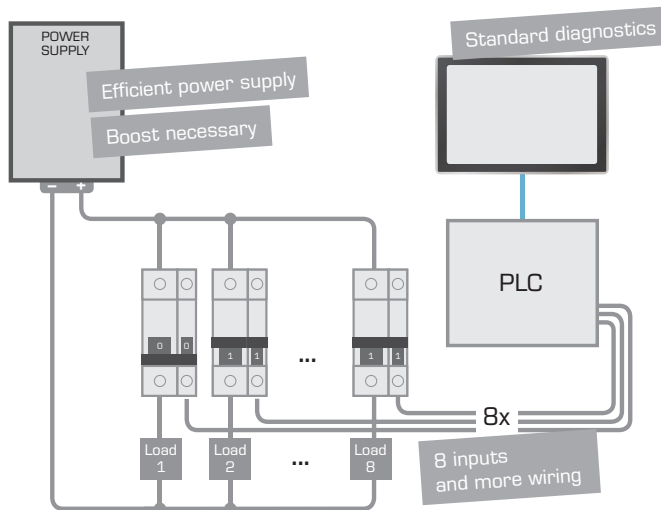
Circuit breaker
with auxiliary switch

Width: 18 + 9 mm / channel

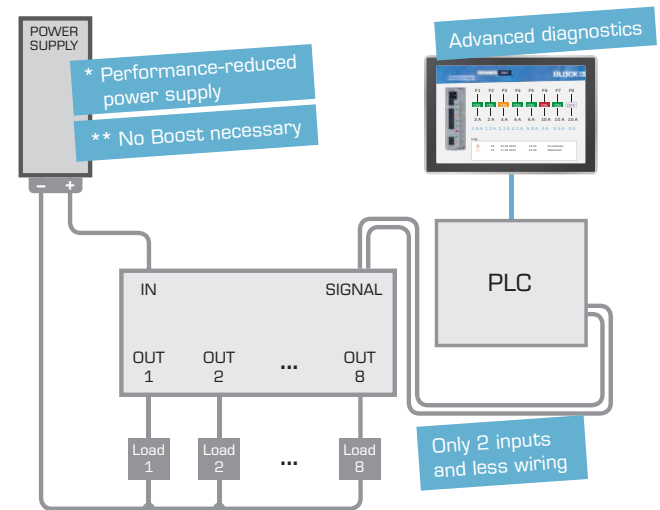
COMPARISON OF 8 PROTECTED CIRCUITS

In addition to a range of technical benefits, in many applications, switching to an electronic circuit breaker solution also has economical advantages.

Conventional
circuit breakers



BLOCK
circuit breakers

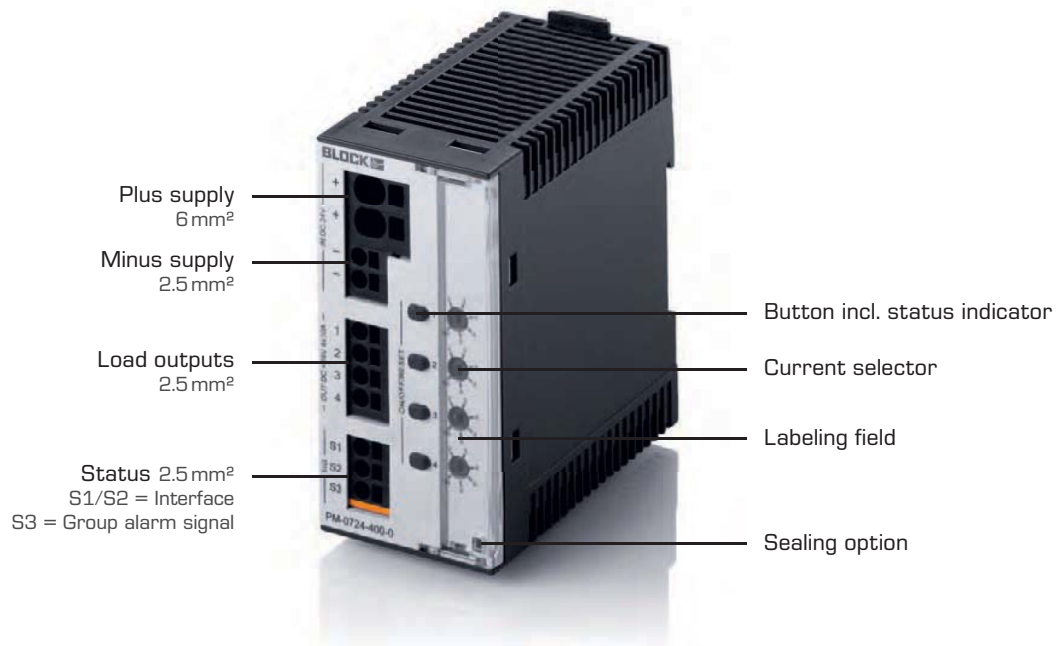


* Due to optimised distribution of the inrush
** Without current spikes for tripping of circuit breakers

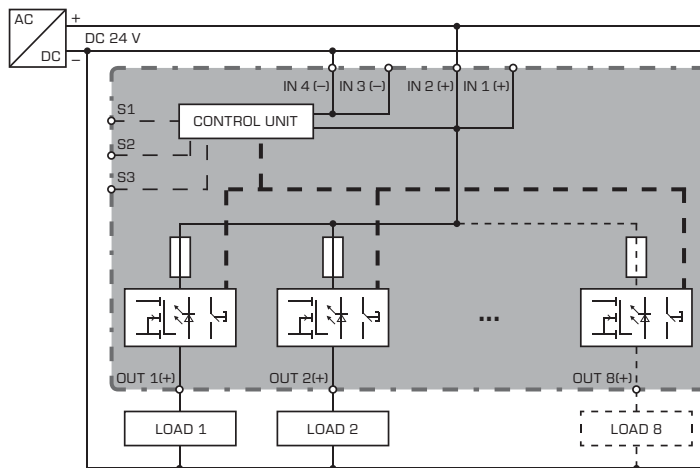
SUBJECT TO CHANGE

CIRCUIT BREAKERS

OPERATING AND CONNECTING ELEMENTS



CIRCUIT PRINCIPLE



PLUG-IN CONNECTION TECHNOLOGY



Some applications require plug-in connection technology. The Smart electronic circuit breakers are also available with plug-in spring-loaded terminals.

Advantages:

- Pre-wiring of connection cables possible
- Easy galvanic isolation of circuits
- Maintenance-friendly

TEMPERATURE RANGE

The modules operate in a wide temperature range and are suitable for exceptional loads in harsh industrial environments.

- Device starts at -40°C without any problems
- Wide temperature range from -25 to +70°C
- For currents of up to 6 A per channel no temperature derating necessary

ECONOMY SMART

ELECTRONIC CIRCUIT BREAKER WITH THERMOMAGNETIC CHARACTERISTIC

Economy Smart circuit breakers with thermomagnetic characteristic provide an economical alternative to conventional circuit breakers. They also ensure reliable tripping even in the event of a high line resistance. This makes the circuit breakers ideal for use in standard machine production.

FEATURES

Adjustable current: 1-6 A and 2-10 A

Number of output channels: 8/4/2 per circuit breaker

VERSIONS

2 CHANNEL

12 Vdc 2x2-10 A	24 Vdc 2x1-6 A	24 Vdc 2x2-10 A	48 Vdc 2x2-10 A
--------------------	-------------------	--------------------	--------------------

4 CHANNEL

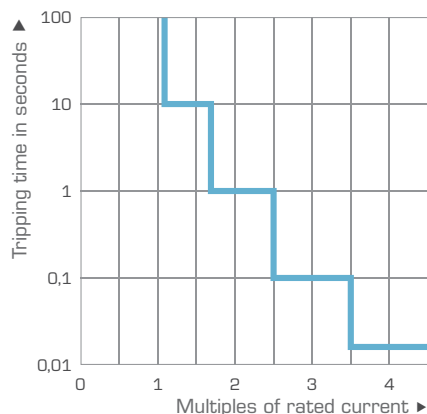
12 Vdc 4x2-10 A	24 Vdc 4x1-6 A	24 Vdc 4x2-10 A	48 Vdc 4x2-10 A
--------------------	-------------------	--------------------	--------------------

8 CHANNEL

24 Vdc 8x1-6 A	24 Vdc 8x2-10 A	48 Vdc 8x2-10 A
-------------------	--------------------	--------------------



TRIPPING CURVE



The tripping time depends on the level of overcurrent. In the event of a short circuit, the defective circuit will shut down within a few milliseconds. The level of the short circuit current depends on the current limiting of the feeding power supply as well as the line resistance.

HIGHLIGHTS

RELIABLE SWITCH-ON OF
HIGH-CAPACITY LOADS
(>50.000 μ F)

DIAGNOSTIC AND REMOTE
SWITCHING OF CHANNELS
VIA 2 LINES

ADJUSTABLE RATED CURRENT
PER CHANNEL

REMOTE RESET CONTACT

COMMON SIGNAL CONTACT
FOR SIMPLE REMOTE
DIAGNOSTICS

SEQUENTIAL AND LOAD-
DEPENDENT SWITCHING-ON
OF CHANNELS

LOW CHANNEL WIDTH

SUBJECT TO CHANGE



ECONOMY REMOTE

ELECTRONIC CIRCUIT BREAKER WITH THERMOMAGNETIC CHARACTERISTIC

The Economy Remote electronic circuit breaker is especially suitable for standard machine production. The start-up time of a production machine is shortened by transmitting adjustable tripping currents directly through the PLC. Thus, the circuit breaker prevents non-defined changes of current value in the equipment.

FEATURES

Adjustable rated current: 2-10 A

Number of output channels: 8/4/2 per circuit breaker

VERSIONS

2 CHANNEL

24 Vdc
2x2-10 A

4 CHANNEL

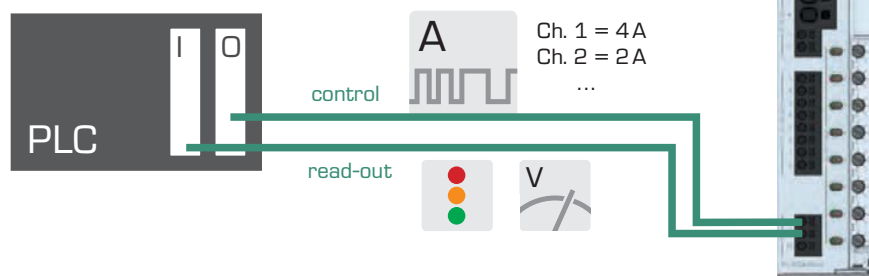
24 Vdc
4x2-10 A

8 CHANNEL

24 Vdc
8x2-10 A



INTELLIGENT OVERCURRENT PROTECTION



HIGHLIGHTS

RELIABLE SWITCH-ON OF
HIGH-CAPACITY LOADS
($>50.000 \mu F$)

COMPREHENSIVE INDIVIDUAL
CHANNEL DIAGNOSTIC

STEPPED SETTING OF TRIP-
PING CURRENTS VIA 2-WIRE
INTERFACE

REMOTE SWITCH-ON/OFF
OF ANY CHANNEL

BASIC SMART

ELECTRONIC CIRCUIT BREAKER WITH ACTIVE CURRENT LIMITING

The Basic Smart circuit breakers guarantee maximum system availability. In the event of circuit overload, only the faulty current paths are reliably switched off without affecting the remaining circuits due to an active current limiting of 1.7 times the rated current.

FEATURES

Adjustable rated current: 0,5-6 A and 2-12 A

Number of output channels: 8/4/2 per circuit breaker

VERSIONS

2 CHANNEL

24 Vdc 2x0,5-6A	24 Vdc 2x2-12A
--------------------	-------------------

4 CHANNEL

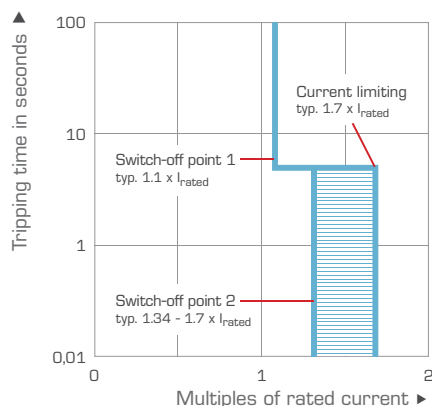
24 Vdc 4x0,5-6A	24 Vdc 4x2-12A
--------------------	-------------------

8 CHANNEL

24 Vdc 8x0,5-6A



TRIPPING CURVE



The constant current limiting of 1.7 times the rated current enables especially high-capacity loads to be switched on reliably. Two switch-off points within the tripping characteristic allow a temporary increase in current flow caused by start-ups, breaking, speed and direction changes of DC motors, etc.

HIGHLIGHTS

ACTIVE CURRENT LIMITING
TYP. $1.7 \times I_{rated}$

SHUTDOWN OF FAULTY
CIRCUITS IN THE EVENT OF
CRITICAL SUPPLY VOLTAGE

COMMON SIGNAL CONTACT
FOR SIMPLE REMOTE
DIAGNOSTIC

RELIABLE SWITCH-ON OF
HIGH-CAPACITY LOADS
($> 50,000 \mu F$)

DIAGNOSTICS AND REMOTE
SWITCHING OF CHANNELS VIA
2 LINES

REMOTE RESET CONTACT

TRANSMISSION OF ACTUAL
OUTPUT CURRENTS

ADJUSTABLE RATED CURRENT
PER CHANNEL

SUBJECT TO CHANGE

CIRCUIT BREAKERS



DESCRIPTION **BASIC SMART**

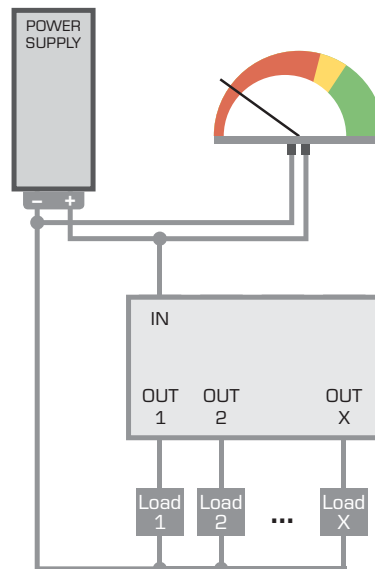
EXTENSIVE DIAGNOSTICS

The actual current per channel is transmitted in addition to the adjusted rated currents and the input voltage. The general operating status (switched on or off) and the error status (tripped or overcurrent) are also available. Through the visualisation of this data, the system alerts you before any critical system failures occur.



SELECTIVE SHUT-DOWN DURING UNDERVOLTAGE

To protect sensitive loads from a temporary overload of the power supply the input voltage is constantly monitored. In the event of a critical undervoltage of below 20V, all circuits with more than 100% of the adjusted rated current are selectively shut off immediately.



BASIC FIX

(NEC CLASS 2)

ELECTRONIC CIRCUIT BREAKER WITH ACTIVE CURRENT LIMITING

If circuits are designed with the same current values for the circuit breaker in a number of applications, the Basic Fix circuit breakers represent the most economical basis. Various combinations of rated currents enable use in a wide range of applications. Each channel features the active current limiting of 1.3 times the fixed preset rated current.



FEATURES

Fix preset rated current

Number of output channels: 4/2 per circuit breaker

VERSIONS

2 CHANNEL

24Vdc
2x3,8A
NEC
Class 2

24Vdc
2x6A

4 CHANNEL

24Vdc
4x3,8A
NEC
Class 2

24Vdc
4x6A

24Vdc
2x3A
2x6A

HIGHLIGHTS

ACTIVE CURRENT LIMITING
TYP. 1,3 X IRATED

SHUTDOWN OF DEFECTIVE
CIRCUITS IN THE EVENT OF
CRITICAL SUPPLY VOLTAGE

COMMON SIGNAL CONTACT
OF SIMPLE REMOTE
DIAGNOSTIC

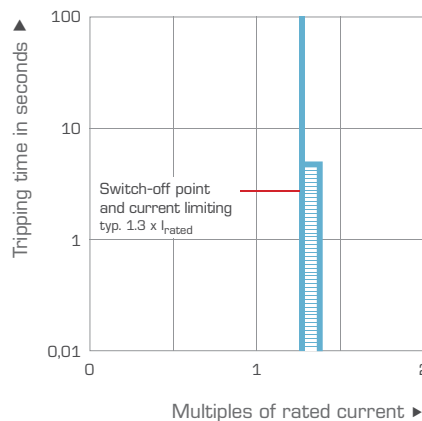
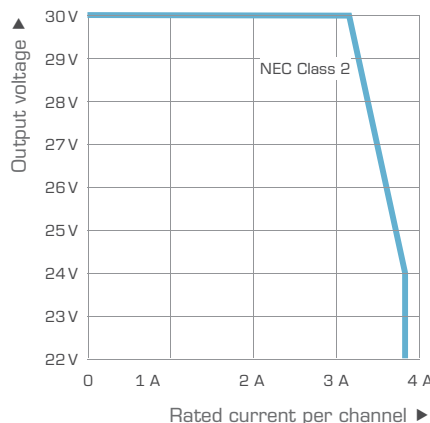
NEC CLASS 2 OPTION

DIAGNOSTIC AND REMOTE
SWITCHING OF CHANNELS VIA
2 LINES

REMOTE RESET CONTACT

RELIABLE SWITCH-ON OF
HIGH-CAPACITY LOADS
(> 50,000 µF)

TRIPPING CURVE



The NEC Class 2 circuit breaker has a selfadjusting current limiting that prevents the output power from exceeding the 100W limit.

The circuit breakers limiting overcurrents to typically 1.3 times the selected rated current and are ideal for sensitive loads.

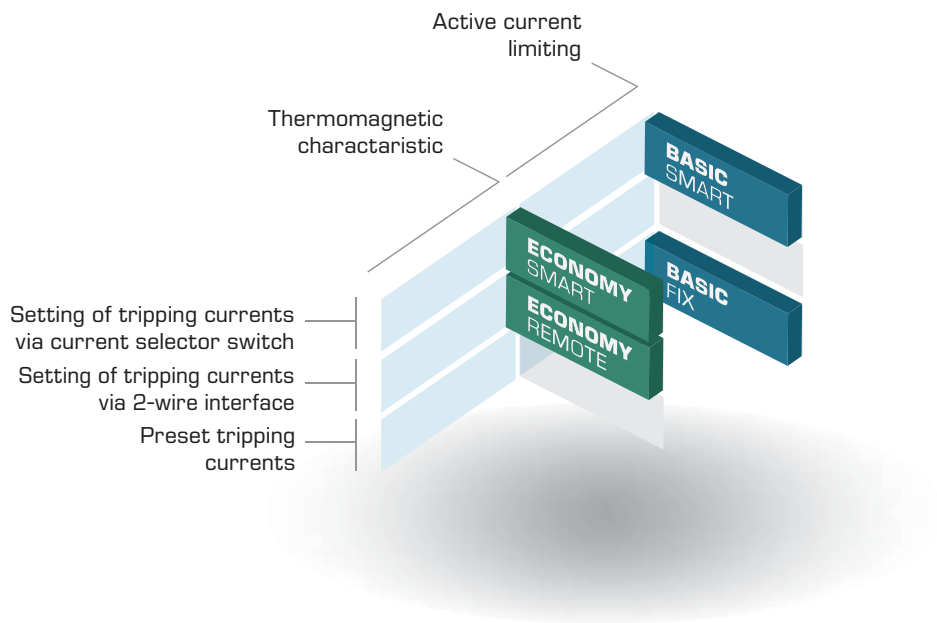
SUBJECT TO CHANGE



GL approval pending



DECISION SUPPORT MULTICHANNEL CIRCUIT BREAKERS



FEATURES

ECONOMY SMART	ECONOMY REMOTE	BASIC SMART	BASIC FIX	
■		■		Setting of tripping currents per channel via current selector switch
	■			Setting of tripping currents per channel via 2-wire interface
■	■	■	■	Remote switch-on/off of any channels
■	■	■	■	"On"/"off"/"tripped" status transmission per channel
■	■	■		"Overcurrent" status transmission per channel
■	■	■	■	"Actual input voltage"/"set tripping current" data transmission per channel
		■		"Actual output currents" data transmission per channel
■	■	■	■	Group alarm signal for tripped channels
■	■	■	■	Remote reset of tripped channels
		■		Active current limit typ. $1.7 \times I_{rated}$
			■	Active current limit typ. $1.3 \times I_{rated}$
			■	Active current limit according to NEC Class 2 (100W)

TYPES ACCORDING TO SERIES

EASYB SINGLE-CHANNEL

Dimensions:
A: 99 mm
B: 12 mm
C: 60 mm



Order no.

NEW
24 Vdc / 1 A EB-2724-010-0

NEW
24 Vdc / 2 A EB-2724-020-0

NEW
24 Vdc / 3 A EB-2724-030-0

NEW
24 Vdc / 4 A EB-2724-040-0

NEW
24 Vdc / 6 A EB-2724-060-0

NEW
24 Vdc / 8 A EB-2724-080-0

NEW
24 Vdc / 10 A EB-2724-100-0

Dimensions:
A: 99 mm
B: 12 mm
C: 60 mm



Order no.

NEW
24 Vdc / 1 A EB-2824-010-0

NEW
24 Vdc / 2 A EB-2824-020-0

NEW
24 Vdc / 3 A EB-2824-030-0

NEW
24 Vdc / 4 A EB-2824-040-0

NEW
24 Vdc / 6 A EB-2824-060-0

NEW
24 Vdc / 8 A EB-2824-080-0

NEW
24 Vdc / 10 A EB-2824-100-0

Dimensions:
A: 99 mm
B: 12 mm
C: 60 mm



Order no.

NEW
24 Vdc / 1 A EB-1824-010-0

NEW
24 Vdc / 2 A EB-1824-020-0

NEW
24 Vdc / 3 A EB-1824-030-0

NEW
24 Vdc / 4 A EB-1824-040-0

NEW
24 Vdc / 6 A EB-1824-060-0

NEW
24 Vdc / 8 A EB-1824-080-0

NEW
24 Vdc / 10 A EB-1824-100-0

NEW
24 Vdc 1 x 0,5-10 A EB-3824-100-0

NEW
24 Vdc 1 x 0,5-10 A EB-0824-100-0

0.5-10 A = 0.5/1/2/3/4/5/6/8/10 A

Preset tripping currents

Tripping currents adjustable via interface

Tripping currents adjustable via rotary switch or interface

EASYB ACCESSORIES

Communication module



Order no.

NEW
EB-MODBUS-RTU

Output distribution module



Order no.

NEW
EB-PMM

Potential collective terminal



Order no.

NEW
EB-GND4

EB-GND8

Lateral cover



Order no.

NEW
EB-COV

Cross connection link



Order no.

NEW
EB-BAR 2...41

Labeling field



Order no.

NEW
EB-MARK1

Labeling bracket



Order no.

NEW
EB-MARK20

Labeling strip



Order no.

NEW
EB-MARK21

SUBJECT TO CHANGE

CIRCUIT BREAKERS

TYPES ACCORDING TO SERIES

ECONOMY SMART



Dimensions:
A: 127 mm
B: 42 mm
C: 116.5 mm



Order no.



Dimensions:
A: 90 mm
B: 45 mm
C: 91.5 mm



Order no.



Dimensions:
A: 90 mm
B: 45 mm
C: 91.5 mm



Order no.

Adjustable tripping currents
via current selector switch:

1-6 A = 1/2/3/4/5/6 A
2-10 A = 2/3/4/6/8/10 A

		12 Vdc / 4 x 2-10 A	PM-0712-400-0		12 Vdc / 2 x 2-10 A	PM-0712-200-0
24 Vdc / 8 x 1-6 A	PC-0724-480-0	24 Vdc / 4 x 1-6 A	PM-0724-240-0		24 Vdc / 2 x 1-6 A	PM-0724-120-0
24 Vdc / 8 x 2-10 A	PC-0724-800-0	24 Vdc / 4 x 2-10 A	PM-0724-400-0		24 Vdc / 2 x 2-10 A	PM-0724-200-0
24 Vdc / 8 x 2-10 A	PC-0724-800-1	24 Vdc / 4 x 2-10 A	PM-0724-400-1		24 Vdc / 2 x 2-10 A	PM-0724-200-1
NEW 24 Vdc / 8 x 2-10 A	PC-0724-800-2	NEW 24 Vdc / 4 x 2-10 A	PM-0724-400-2			
NEW 48 Vdc / 8 x 2-10 A	PC-0748-800-0	48 Vdc / 4 x 2-10 A	PM-0748-400-0		48 Vdc / 2 x 2-10 A	PM-0748-200-0
NEW 48 Vdc / 8 x 2-10 A	PC-0748-800-2	NEW 48 Vdc / 4 x 2-10 A	PM-0748-400-2		NEW 48 Vdc / 2 x 2-10 A	PM-0748-200-2

Potential free signal output

With plug-in spring-loaded terminal
(depth increased by 25.5 mm)

ECONOMY REMOTE



Dimensions:
A: 127 mm
B: 42 mm
C: 116.5 mm



Order no.



Dimensions:
A: 90 mm
B: 45 mm
C: 91.5 mm



Order no.



Dimensions:
A: 90 mm
B: 45 mm
C: 91.5 mm



Order no.

Adjustable tripping currents
via 2-wire interface:

2-10 A = 2/3/4/6/8/10 A

Factory setting:
Tripping currents: 10 A

24 Vdc / 8 x 2-10 A	PC-3724-800-0	24 Vdc / 4 x 2-10 A	PM-3724-400-0	24 Vdc / 2 x 2-10 A	PM-3724-200-0
--------------------------------	---------------	--------------------------------	---------------	--------------------------------	---------------

TYPES ACCORDING TO SERIES

Dimensions:
A: 127 mm
B: 42 mm
C: 116.5 mm

Order no.

Dimensions:
A: 90 mm
B: 45 mm
C: 91.5 mm

Order no.

Dimensions:
A: 90 mm
B: 45 mm
C: 91.5 mm

Order no.

Adjustable tripping currents
via current selector switch:

0.5-6 A = 0.5/1/2/3/4/6 A
2-12 A = 2/4/6/8/10/12 A

24 Vdc / 8 x 0.5-6 A	PC-0824-480-0	24 Vdc / 4 x 0.5-6 A	PM-0824-240-0	24 Vdc / 2 x 0.5-6 A	PM-0824-120-0
24 Vdc / 8 x 0.5-6 A	PC-0824-480-1	24 Vdc / 4 x 0.5-6 A	PM-0824-240-1	24 Vdc / 2 x 0.5-6 A	PM-0824-120-1
		24 Vdc / 4 x 2-12 A	PM-0824-480-0	24 Vdc / 2 x 2-12 A	PM-0824-240-2

With plug-in spring-loaded terminal
(depth increased by 25.5 mm)

Dimensions:
A: 90 mm
B: 45 mm
C: 91.5 mm

Order no.

Dimensions:
A: 90 mm
B: 45 mm
C: 91.5 mm

Order no.

Preset tripping currents

24 Vdc / 4 x 3.8 A	PM-9824-152-0	24 Vdc / 4 x 3.8 A	PM-9824-076-0
24 Vdc / 4 x 6 A	PM-2824-240-0	24 Vdc / 4 x 6 A	PM-2824-120-0
24 Vdc / 2 x 3 A + 2 x 6 A	PM-2824-180-0		

NEC Class 2

ACCESSORIES

Output distribution module

Order no.

PMM-01/-02

SUBJECT TO CHANGE