

# Standard Lighting and Heat-Trace Panels Series 8146



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06524E00

- > Available versions
  - With miniature circuit breaker, tripping characteristic C
  - with residual current circuit breaker and overcurrent release, tripping characteristic B and C
- > Advantages
  - Installation of miniature circuit breakers under hinged inspection window
  - External operation of the breakers
  - Switch setting visible at all times
  - Operation under voltage
  - Short delivery times



The standard distribution panels are built with stock miniature circuit breakers. The following data sheet shows versions with 16 A nominal current. Others with 10, 20, 25 A are also possible. These distribution panels are deliverable within 2 weeks ex works.

	ATEX / IECEx						NEC 505 Class I						NEC 506						NEC 500					
	Zone	0	1	2	20	21	22	Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2	1	2	
For use		x	x		x	x			x							x								

E8

**WebCode 8146D**

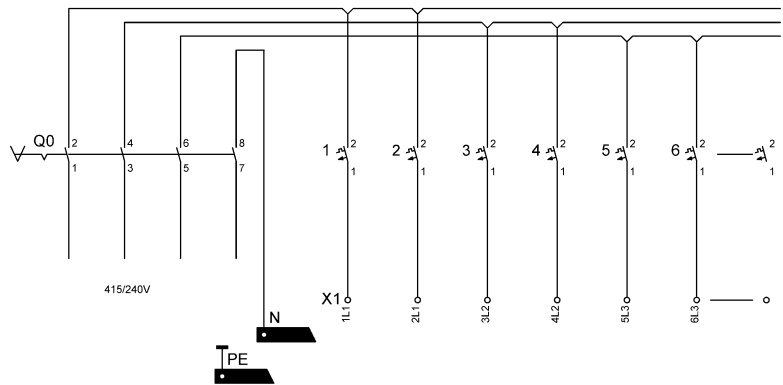
# Standard Lighting and Heat-Trace Panels

## Series 8146

Selection Table

Version	Miniature circuit breaker		Layout No.	Cable entries	Order number
	Quantity	Characteristics			
Lighting panels with miniature circuit breaker, 1-pole, 16 A, wiring on terminal blocks	6	C	01	1 x M40, 6 x M25, 1 x M16	<b>8146/5-ExV-01-06L16C1P-T</b>
	12	C	02	1 x M50, 12 x M25, 1 x M16	<b>8146/5-ExV-02-12L16C1P-T</b>
	18	C	03	1 x M50, 18 x M25, 1 x M16	<b>8146/5-ExV-03-18L16C1P-T</b>
	24	C	04	1 x M50, 24 x M25, 1 x M16	<b>8146/5-ExV-04-24L16C1P-T</b>

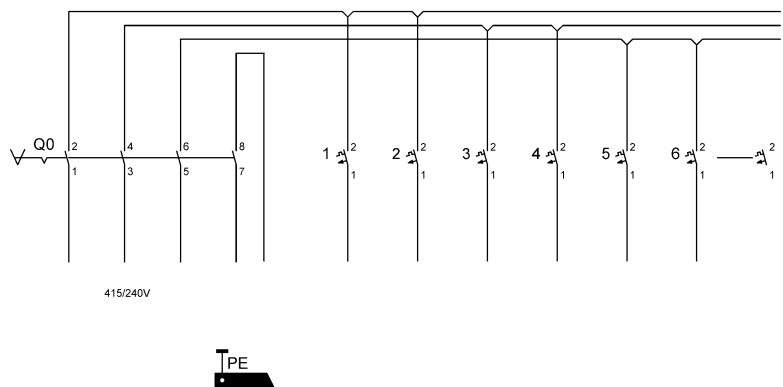
Circuit diagram



Selection Table

Version	Miniature circuit breaker		Layout No.	Cable entries	Order number
	Quantity	Characteristics			
Lighting panels with miniature circuit breaker, 1-pole, 16 A, mattress wiring	6	C	06	1 x M40, 6 x M25, 1 x M16	<b>8146/5-ExV-06-06L16C1P-D</b>
	12	C	07	1 x M50, 12 x M25, 1 x M16	<b>8146/5-ExV-07-12L16C1P-D</b>

Circuit diagram



# Standard Lighting and Heat-Trace Panels

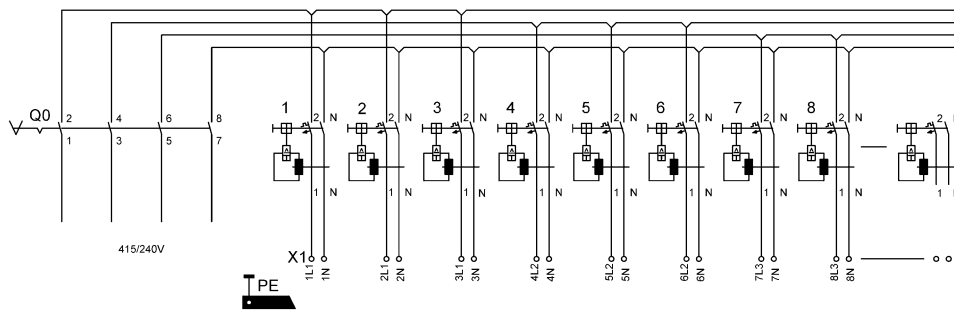
## Series 8146



### Selection Table

Version	Residual current circuit breaker with overcurrent release		Layout No.	Cable entries	Order number
	Quantity	Characteristics			
Heat-trace panels with residual current circuit breaker and overcurrent release, 1-pole + N, 16 A / 30 mA, wiring on terminal blocks	8	B	02	1 x M40, 8 x M25, 1 x M16	8146/5-ExV-02-08H16B1N-T
	12	B	03	1 x M50, 12 x M25, 1 x M16	8146/5-ExV-03-12H16B1N-T
	24	B	05	1 x M50, 24 x M25, 1 x M16	8146/5-ExV-05-24H16B1N-T
	8	C	02	1 x M40, 8 x M25, 1 x M16	8146/5-ExV-02-08H16C1N-T
	12	C	03	1 x M50, 12 x M25, 1 x M16	8146/5-ExV-03-12H16C1N-T
	24	C	05	1 x M50, 24 x M25, 1 x M16	8146/5-ExV-05-24H16C1N-T

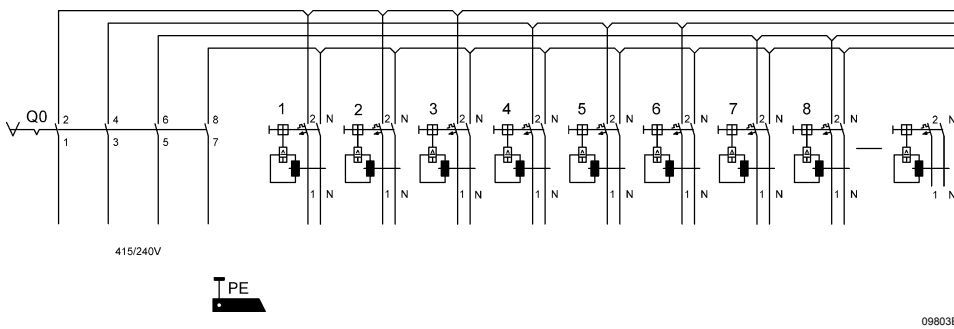
### Circuit diagram



### Selection Table

Version	Residual current circuit breaker with overcurrent release		Layout No.	Cable entries	Order number
	Quantity	Characteristics			
Heat-trace panels with residual current circuit breaker and overcurrent release, 1-pole + N, 16 A / 30 mA, mattress wiring	8	B	07	1 x M40, 8 x M25, 1 x M16	8146/5-ExV-07-08H16B1N-D
	8	C	07	1 x M40, 8 x M25, 1 x M16	8146/5-ExV-07-08H16C1N-D

### Circuit diagram



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### Explosion Protection

#### Global (IECEX)

Gas and dust	IECEX PTB 06.0090 Ex dem ia/ib [ia/ib] IIA, IIB, IIC, T6, T5, T4 Ex tD A21 IP66 T80°C, T95°C, T130°C
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#### Europe (ATEX)

Gas and dust	PTB 01 ATEX 1024 ⊕ II 2 G Ex de ia/ib [ia/ib] mq IIA, IIB, IIC T6, T5, T4 ⊕ II 2 D Ex tD A21 IP6x T80°C, T95°C, T130°C
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### Certifications and certificates

Certificates	IECEX, ATEX
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### Technical Data

#### Electrical data

Rated voltage	415 / 240 V AC
Rated current	80 A

#### Ambient conditions

Ambient temperature	-20 ... +40 °C
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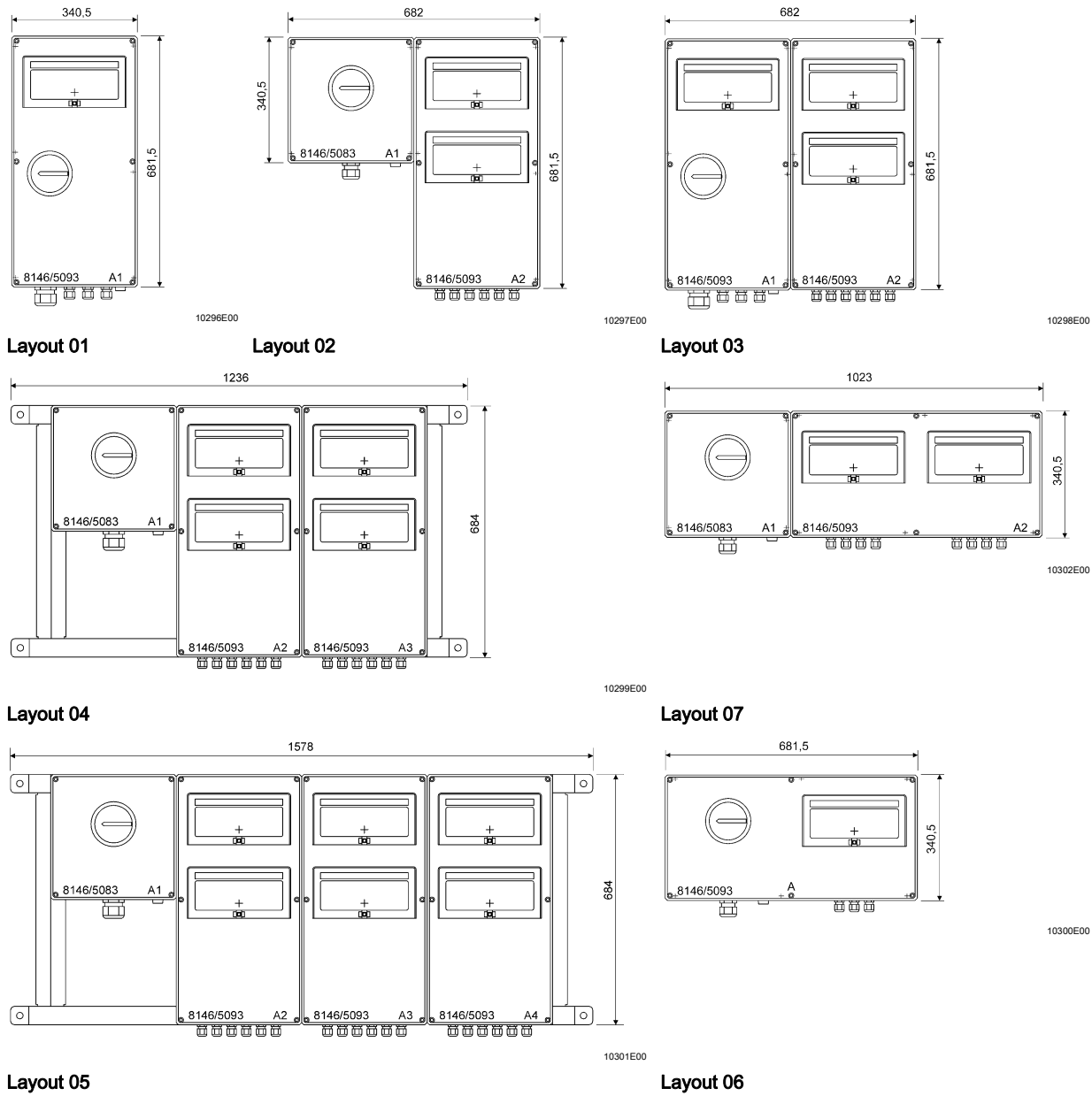
#### Mechanical data

Degree of protection	IP66 (EN 60529)
Enclosure material	glass fibre reinforced polyester resin, dark grey similar to RAL 7024 impact resistance $\geq 7$ J surface resistance $\leq 10^9 \Omega$ flame retardant acc. to IEC/EN 60695, UL 94, ASTM D635
Connection cross-section finely stranded	35 mm <sup>2</sup>

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## Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.