

# UK 35-FE - Feed-through terminal block



3048219

<https://www.phoenixcontact.com/sg/products/3048219>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 125 A, number of connections: 2, connection method: Screw connection, Rated cross section: 35 mm<sup>2</sup>, cross section: 10 mm<sup>2</sup> - 35 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black/yellow

## Your advantages

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Optimum screwdriver guidance through closed screw shafts

## Commercial data

Item number	3048219
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	*****
Product key	BE1211
GTIN	4046356762694
Weight per piece (including packing)	57.691 g
Weight per piece (excluding packing)	57.691 g
Customs tariff number	85369010
Country of origin	DE

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## Technical data

### Product properties

Product type	Feed-through terminal block
Number of connections	2
Number of rows	1
Potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	4.06 W

### Connection data

Number of connections per level	2
Nominal cross section	35 mm <sup>2</sup>

### Level 1 above 1 below 1

Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	16 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	10 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Cross section AWG	6 ... 2 (converted acc. to IEC)
Conductor cross section flexible	10 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	6 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	10 mm <sup>2</sup> ... 35 mm <sup>2</sup>
2 conductors with same cross section, solid	6 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with same cross section, flexible	6 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	6 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	6 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Nominal current	125 A
Maximum load current	125 A
Nominal voltage	800 V
Nominal cross section	35 mm <sup>2</sup>

### Ex data

Rated data (ATEX/IECEx)

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Identification	⊕ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3008096 TP-UK 35
	1205079 SZS 1,0X6,5 VDE
	1201442 E/UK
List of bridges	Fixed bridge / FBI 2-15 / 0201333
	Fixed bridge / FBI 3-15 / 0201278
Bridge data	118.5 A (35 mm <sup>2</sup> )
List of bridges	Insertion bridge / EB 2-15 K/UK 35 / 0205119
	Insertion bridge / EB 10-15 / 0205135
Bridge data	105.5 A (35 mm <sup>2</sup> )
List of bridges	Chain bridge / KBI- 15 / 0205203
Bridge data	116 A (35 mm <sup>2</sup> )
Ex temperature increase	40 K (130.5 A / 35 mm <sup>2</sup> )
Rated voltage	690 V
at bridging with insertion bridge	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)

## Ex level General

Rated current	118.5 A
Maximum load current	147 A
Contact resistance	0.08 mΩ

## Ex connection data General

Torque range	3.2 Nm ... 3.7 Nm
Nominal cross section	35 mm <sup>2</sup>
Rated cross section AWG	2
Connection capacity rigid	0.75 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Connection capacity AWG	18 ... 1/0
Connection capacity flexible	0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connection capacity AWG	18 ... 2
2 conductors with same cross section, solid	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	18 ... 6
2 conductors with same cross section, stranded	0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	18 ... 8

## Dimensions

Width	15.1 mm
Height	54.5 mm
Depth on NS 32	67.1 mm
Depth on NS 35/7,5	62.1 mm
Depth on NS 35/15	69.6 mm

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## Material specifications

Color	multicolored
	black (RAL 9005)
	yellow (RAL 1018)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

## Mechanical properties

### Mechanical data

Open side panel	No
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
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## Mounting

Mounting type	NS 35/7,5
	NS 35/15

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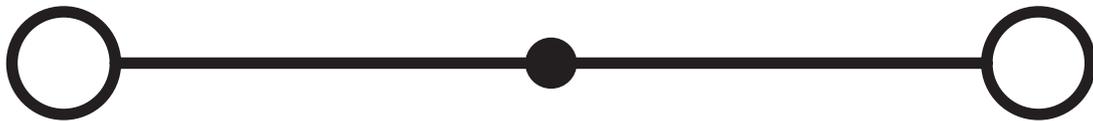
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## Drawings

### Circuit diagram



# UK 35-FE - Feed-through terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3048219>

<b>DNV</b> Approval ID: TAE00001CT				
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<b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Use group B	600 V	150 A	18 - 1/0	-
Use group C	600 V	150 A	18 - 1/0	-
With ATP	1000 V	150 A	18 - 1/0	-

<b>CB Scheme</b> Approval ID: NL-26111				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	1000 V	-	-	- 35

<b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Use group B	600 V	150 A	18 - 1/0	-
Use group C	600 V	150 A	18 - 1/0	-
Use group F	1000 V	150 A	18 - 1/0	-

<b>KEMA-KEUR</b> Approval ID: 71-119836				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	1000 V	-	-	0.75 - 35

<b>ClassNK</b> Approval ID: 09 ME 141				
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<b>ATEX</b>				
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Approval ID: KEMA98ATEX1786U



## cUL Recognized

Approval ID: E192998

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	150 A	18 - 1/0	-



## GL

Approval ID: 98876-96 HH

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
EEx e II part certificate	690 V	118.5 A	-	- 35



## IECEx

Approval ID: IECEx KEM 06.0029U



## UL Recognized

Approval ID: E192998

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	150 A	18 - 1/0	-



## CCC

Approval ID: 2020322313000623



## DNV GL-EX

Approval ID: TAE00003K6

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
EEx e II part certificate	440 V	32 A	-	- 2.5



## EAC Ex

Approval ID: KZ 7500525010101950

cULus Recognized

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## Classifications

### ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

### ETIM

ETIM 9.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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PHOENIX CONTACT SEA Pte. Ltd.  
105 Eunos Avenue 3, #04-00  
Singapore 409836  
+65 6228 4900  
[marketing@phoenixcontact.com.sg](mailto:marketing@phoenixcontact.com.sg)