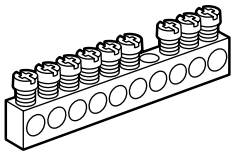
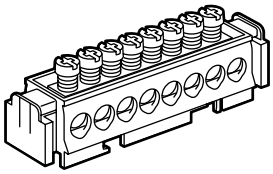
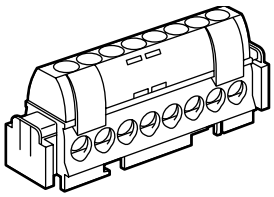
87045 LIMOGES CEDEX
Telephone : (+33) 05 55 06 87 87 - Fax : (+33) 05 55 06 88 88

# Distribution terminal blocks

**Catalogue Number(s) :**
**048 01/03/05/06/07/12/14/20/22/24/25/26/28**
**048 30/32/34/35/36/38/40/42/44/45/46/48/50**
**048 52/54/55/56/58**

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## 1. RANGE

- Screw terminal blocks
- Universal terminal blocks on support
- IP 2x terminal blocks, phase, neutral, earth
- Tapping terminal block

## 2. OVERALL DIMENSIONS

**• Screw terminal blocks**

| | Lenght in mm |
|---|---|
| Cat. No. 048 01 | 45 |
| Cat. No. 048 03 | 73 |
| Cat. No. 048 05 | 122 |
| Cat. No. 048 06 | 157 |
| Cat. No. 048 07 | 192 |

**• Universal terminal blocks on support**

| | Lenght in mm |
|---|---|
| Cat. No. 048 20 | 47 |
| Cat. No. 048 22 | 75 |
| Cat. No. 048 24 | 113 |
| Cat. No. 048 25 | 141 |
| Cat. No. 048 26 | 176 |
| Cat. No. 048 28 | 276 |

**• IP 20 terminal blocks**

| | Earth (green) | Neutral (blue) | Phase (black) | Length in mm |
|---|---|---|---|---|
| Cat. No. | 048 30 | 048 40 | 048 50 | 47 |
| Cat. No. | 048 32 | 048 42 | 048 52 | 75 |
| Cat. No. | 048 34 | 048 44 | 048 54 | 113 |
| Cat. No. | 048 35 | 048 45 | 048 55 | 141 |
| Cat. No. | 048 36 | 048 46 | 048 56 | 176 |
| Cat. No. | 048 38 | 048 48 | 048 58 | 276 |

**• Taping terminal blocks**

| | Length in mm |
|---|---|
| Cat. No. 048 12 | 54 |

**• 3-phase + N terminal block**

| | Length in mm |
|---|---|
| Cat. No. 048 14 | 227 |

## 3. ELECTRICAL CHARACTERISTICS

100 A max.
400 V~
Icc = 10 kA rms
IPK = 17 peak kA

## 4. CONFORMITY

Conform to standard IEC 998-2-1

## 5. MECHANICAL CHARACTERISTICS

### 5.1 Environmental conditions

Operating temperature : - 5° C to + 40° C
Storage temperature : - 25° C to + 70° C
Mechanical resistance : IK 04

### 5.2 Materials

| | | | |
|---|---|---|---|
| Cover | Polycarbonate | Mass density | 1.18 à 1,25 |
| | | Bending modulus | 2.20 GPa |
| | | Glow wire | 850° C / 30 s |
| | | Oxygen index | ≥ 34 |
| | | Colours | Black RAL 9017<br>Blue RAL 5012<br>Green RAL 6024 |
| Base | Polycarbonate | Mass density | 1.22 à 1.28 |
| | | Bending modulus | > 2.20 GPa |
| | | Glow wire | 960° C / 30 s |
| | | Oxygen index | = 30 |
| | | Colours | Grey RAL 7037 |
| Base Length 276 mm | Polycarbonate | Mass density | 1.33 à 1.37 |
| | | Bending modulus | > 5.00 GPa |
| | | Glow wire | 960° C / 30 s |
| | | Oxygen index | = 33 |
| | | Colours | Grey RAL 7016 |
| Screw | | Zinc-plated bichromated steel | |
| Contact | | Brass | |

## 6. INSTALLATION

### 6.1 Fixing

Fixing of terminal blocks on supports and IP 20 terminal blocks

| Number of connections | On 12 x 2 bar | On Ω rail Euro 022 | By screw at end | On distributor support |
|---|---|---|---|---|
| 4 | yes | no(1) | no | yes |
| 8 | yes | yes | no | yes |
| 13 | yes | yes | no | yes |
| 17 | yes | no(2) | no | yes |
| 22 | yes | no(2) | no | yes |
| 35 | yes | no(2) | yes | no(3) |

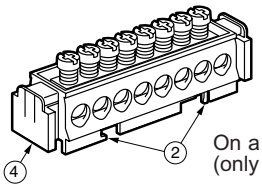
(1) too short
(2) Length exceeds the height of a Lexic modular device
(3) Mounting possible but not recommended

# Distribution terminal blocks

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**048 52/54/55/56/58**

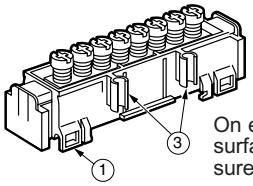
## 6. INSTALLATION *(continued)*

### 6.1 Fixing *(continued)*




On a modular rail
(only 8 and 13 holes)

On distributor
support

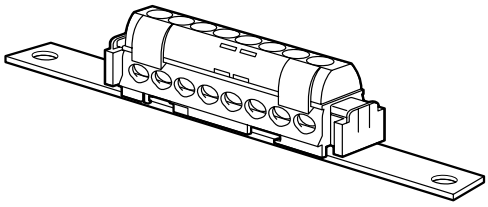



On edge of flush and
surface mounting enclo-
sure

On a 12 x 2 bar
(all catalogue numbers)

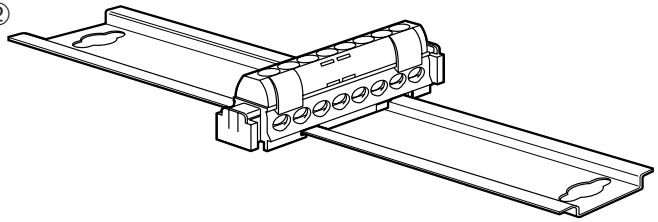
On a 12 x 2 bar for all catalogue numbers (with an isolating support)

①



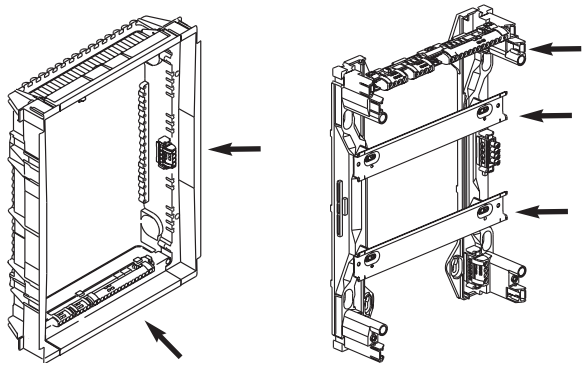
On a EN 50-022 symmetrical rail for Cat. Nos.
048 22/24/32/34/42/44/52/54 or for all catalogue numbers with support,
with adapter Cat. No. 048 11

②



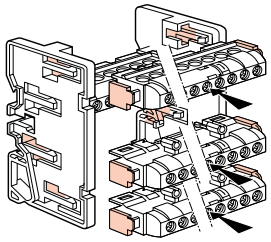
Directly in enclosure (XL boxes and flush-mounting boxes, new models)

③



On distributor support

④

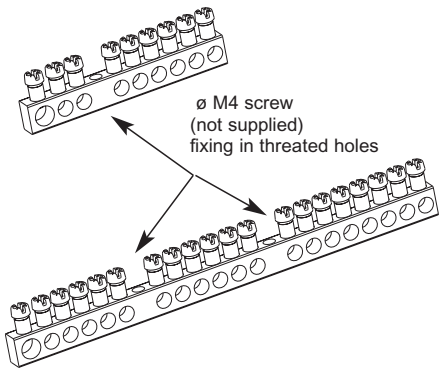


## 6. INSTALLATION *(continued)*

### 6.1 Fixing *(continued)*

Screw terminal block

| No. of connexions | Fixing | Center distance |
|---|---|---|
| 5 | 1 x M4 screw | |
| 9 | 1 x M4 screw | |
| 15 | 2 x M4 screw | 49 mm |
| 20 | 2 x M4 screw | 49 mm |
| 25 | 2 x M4 screw | 49 mm |



ø M4 screw
(not supplied)
fixing in threated holes

### 6.2 Connection

**• Screw terminal blocks**

| | Input large capacity 6 to 25 mm² (1) | Output capacity 1,5 to 16 mm² (2) |
|---|---|---|
| Cat. No. 048 01 | 1 | 4 |
| Cat. No. 048 03 | 1 | 8 |
| Cat. No. 048 05 | 1 | 14 |
| Cat. No. 048 06 | 1 | 19 |
| Cat. No. 048 07 | 1 | 24 |

**• Universal terminal blocks on support**

| | Input large capacity 6 to 25 mm² (1) | Output capacity 1,5 to 16 mm² (2) |
|---|---|---|
| Cat. No. 048 20 | - | 4 |
| Cat. No. 048 22 | - | 8 |
| Cat. No. 048 24 | 1 | 12 |
| Cat. No. 048 25 | 1 | 16 |
| Cat. No. 048 26 | 1 | 21 |
| Cat. No. 048 28 | 2 | 33 |

**• IP 2 terminal blocks**

| Earth (green) | Neutral (blue) | Phase (black) | Input large capacity 6 to 25 mm² (1) | Output capacity 1,5 to 16 mm² (2) |
|---|---|---|---|---|
| Cat. No. 048 30 | 048 40 | 048 50 | - | 4 |
| Cat. No. 048 32 | 048 42 | 048 52 | - | 8 |
| Cat. No. 048 34 | 048 44 | 048 54 | 1 | 12 |
| Cat. No. 048 35 | 048 45 | 048 55 | 1 | 16 |
| Cat. No. 048 36 | 048 46 | 048 56 | 1 | 21 |
| Cat. No. 048 38 | 048 48 | 048 58 | 2 | 33 |

**• Tapping terminal blocks**

| | Input large capacity 6 to 25 mm² (1) |
|---|---|
| Cat. No. 048 12 | 4 |

**• 3-phase + N terminal block (3 black + 1 blue)**

| | | Input large capacity 6 to 25 mm² (1) | Output capacity 1,5 to 16 mm² (2) |
|---|---|---|---|
| Cat. No. 048 14 | 1 N | 1 | 12 |
| | 3 phases | - | 4 |

(1) without ferrule (2.5 to 16 mm² with ferrule)
(2) without ferrule (0.75 to 10 mm² with ferrule)

# Distribution terminal blocks

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**048 30/32/34/35/36/38/40/42/44/45/46/48/50**
**048 52/54/55/56/58**

## 6. INSTALLATION *(continued)*

### 6.2 Connection *(continued)*

**• Required tools**

Flat head screwdriver ø 5.5 mm
Cross-slot screwdriver Pz 2

Tightening torque : 3 to 5 cm/kg

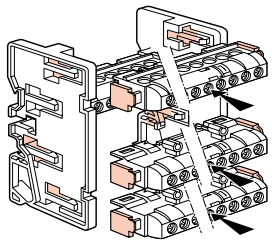
Torques :
- max.: 35 cm/kg
- recommended : 25 cm/kg

**• Marking**

Function labelling using Duplix markers at each end of the support and on the cover.

**• Accessories**

Option of connecting up to 4 terminal blocks of the same size.
To create a distribution block using Cat. No. 048 10 (not recommended with terminal blocks Cat. No. 048 28/38/48/58).



Rail mounting

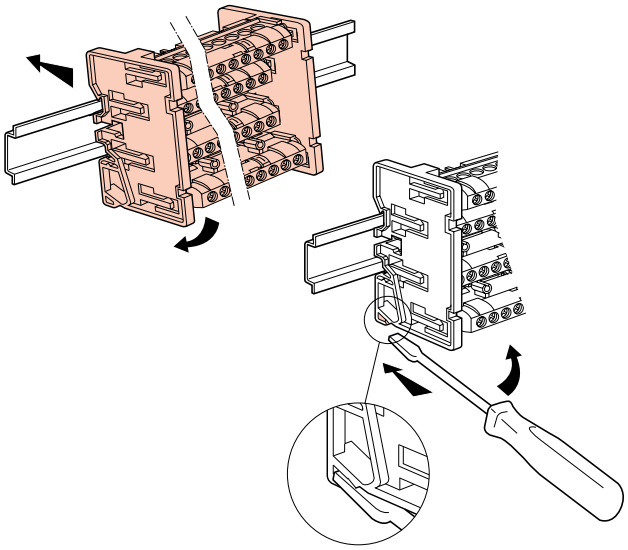
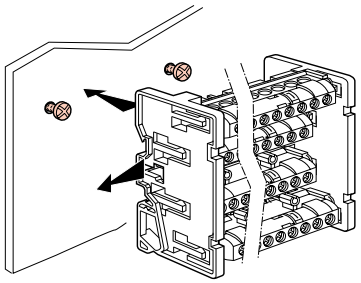


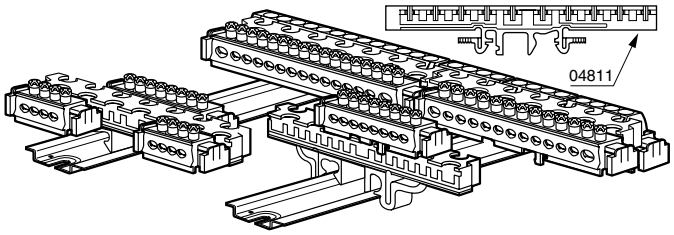
Plate mounting



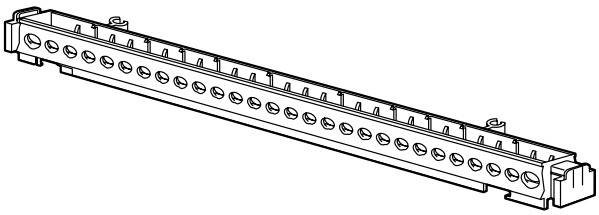
## 6. INSTALLATION *(continued)*

### 6.2 Connection *(continued)*

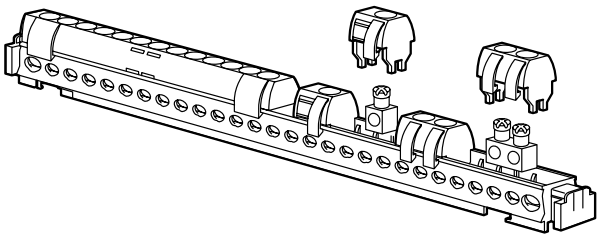
• Support for rail ⊔ and ⊏ Cat. No. 048 11




• Empty 28-hole support Cat. No. 048 18



• Connecting block type terminal blocks : 1 hole Cat. No. 048 61
2 holes Cat. No. 048 62.



• Flat bar 12 x 2 supplied by the metre Cat. No. 048 19

