

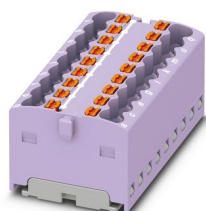
# Distribution block - PTFIX 18X1,5 VT



3002786

<https://www.phoenixcontact.com/us/products/3002786>

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Distribution block, the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories, bridged internally, nom. voltage: 450 V, nominal current: 17.5 A, connection method: Push-in connection, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: violet

## Your advantages

- Clear arrangement thanks to marking of all terminal points
- Convenient test options, thanks to test openings at every terminal point
- Space-saving potential distribution, thanks to compact micro potential distributors
- Space-saving, thanks to the compact design
- Flexible use, thanks to direct mounting with flange covers from accessories

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## Commercial Data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3002786             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 20 pc               |
| Sales Key                            | B02                 |
| Product Key                          | BEA115              |
| Catalog Page                         | Page 429 (C-1-2019) |
| GTIN                                 | 4055626432663       |
| Weight per Piece (including packing) | 16.435 g            |
| Weight per Piece (excluding packing) | 9.99 g              |
| Customs tariff number                | 85369010            |
| Country of origin                    | PL                  |

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## Technical Data

### Notes

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories |
|--------------------|------------------------------------------------------------------------------------------------------------------------|

### Product properties

|                       |                            |
|-----------------------|----------------------------|
| Product type          | Distributor terminal block |
| Number of connections | 18                         |
| Number of rows        | 1                          |
| Potentials            | 1                          |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 0.56 W |

### Connection data

|                                                                         |                                              |
|-------------------------------------------------------------------------|----------------------------------------------|
| Number of connections per level                                         | 18                                           |
| Nominal cross section                                                   | 1.5 mm <sup>2</sup>                          |
| Rated cross section AWG                                                 | 14                                           |
| Stripping length                                                        | 8 mm ... 10 mm                               |
| Internal cylindrical gage                                               | A1 / B1                                      |
| Conductor cross section solid                                           | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Cross section AWG                                                       | 26 ... 14                                    |
| Conductor cross section flexible                                        | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section, flexible [AWG]                                 | 24 ... 14                                    |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)          | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Nominal current                                                         | 17.5 A                                       |
| Maximum load current                                                    | 22 A                                         |
| Maximum total current                                                   | 26 A                                         |
| Nominal voltage                                                         | 450 V                                        |

### Connection cross sections directly pluggable

|                                                                         |                                              |
|-------------------------------------------------------------------------|----------------------------------------------|
| Conductor cross section solid                                           | 0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section, solid [AWG]                                    | 26 ... 14                                    |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)          | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |

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## Dimensions

|        |         |
|--------|---------|
| Width  | 37.4 mm |
| Height | 17.7 mm |
| Length | 21.6 mm |

## Material specifications

|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| Color                                                                   | violet      |
| 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)) | 130 °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)                        | 28 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 |
|-----------------|----|

## Mechanical tests

### Attachment on the carrier

|                         |                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DIN rail/fixing support | NS 35/NS 15                                                                                                                                                |
| Result                  | Test passed                                                                                                                                                |
| Note                    | When aligning several blocks, it is recommended to either place a DIN rail adapter underneath the connection point or a flange element between the blocks. |
|                         | For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block.    |
|                         | When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.                                                        |

## Environmental and real-life conditions

### Aging

|                    |     |
|--------------------|-----|
| Temperature cycles | 192 |
|--------------------|-----|

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## Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

## Ambient conditions

|                                          |                                                                           |
|------------------------------------------|---------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)       |
| 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 60998-2-2 |
|----------------------------------|---------------|

## Mounting

|               |                                      |
|---------------|--------------------------------------|
| Mounting type | for snapping onto a DIN rail adapter |
|               | Direct mounting with flange          |
|               | Free-hanging                         |

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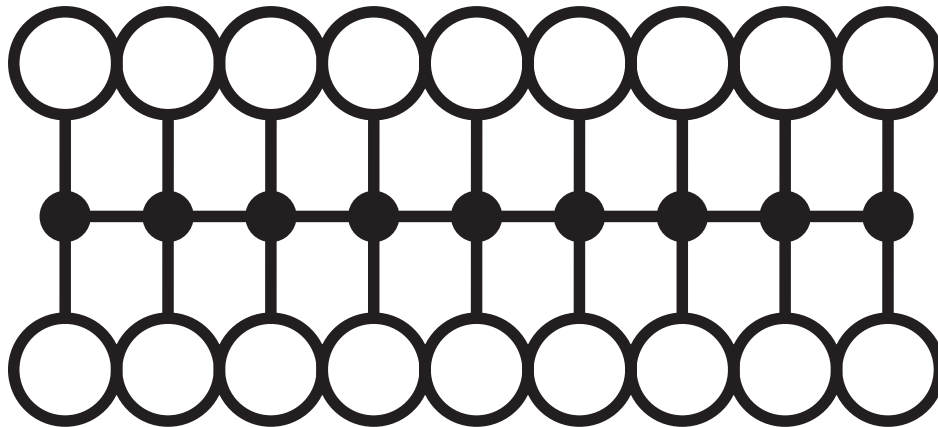


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## Drawings

Circuit diagram



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## Approvals

| <b>DNV</b><br>Approval ID: TAE00002TT |                       |                       |                   |                             |
|---------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                       | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                       | 500 V                 | 24 A                  | -                 | -                           |

| <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|----------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                  | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
| Use group B                      |                       |                       |                   |                             |
|                                  | 300 V                 | 20 A                  | 26 - 12           | -                           |
| Use group C                      |                       |                       |                   |                             |
|                                  | 150 V                 | 20 A                  | 26 - 12           | -                           |
| Use group D                      |                       |                       |                   |                             |
|                                  | 300 V                 | 10 A                  | 26 - 12           | -                           |

| <b>CB</b> IECEx CB Scheme<br>Approval ID: DE1-63083 |                       |                       |                   |                             |
|-----------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                     | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                                     | 450 V                 | 17.5 A                | -                 | - 1.5                       |

| <b>EAC</b> EAC<br>Approval ID: RU C-DE.AI30.B.01102 |  |  |  |  |
|-----------------------------------------------------|--|--|--|--|
|-----------------------------------------------------|--|--|--|--|

| <b>LR</b><br>Approval ID: LR2002627TA |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

| <b>BV</b><br>Approval ID: 59146/A0 BV |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

| <b>EAC</b> EAC<br>Approval ID: RU C-DE.BL08.B.00644 |  |  |  |  |
|-----------------------------------------------------|--|--|--|--|
|-----------------------------------------------------|--|--|--|--|

| <b>VDE</b> VDE Zeichengenehmigung<br>Approval ID: 40047798 |  |  |  |  |
|------------------------------------------------------------|--|--|--|--|
|------------------------------------------------------------|--|--|--|--|

| <b>cULus</b> cULus Recognized<br>Approval ID: E60425 |  |  |  |  |
|------------------------------------------------------|--|--|--|--|
|------------------------------------------------------|--|--|--|--|

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|             | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B |                       |                       |                   |                             |
|             | 300 V                 | 20 A                  | 26 - 12           | -                           |
| Use group C |                       |                       |                   |                             |
|             | 150 V                 | 20 A                  | 26 - 12           | -                           |
| Use group F |                       |                       |                   |                             |
|             | 500 V                 | 20 A                  | 26 - 12           | -                           |
| Use group D |                       |                       |                   |                             |
|             | 300 V                 | 10 A                  | 26 - 12           | -                           |

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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27141120 |
| ECLASS-10.0.1 | 27141120 |
| ECLASS-11.0   | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC000897 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

# Distribution block - PTFIX 18X1,5 VT



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<https://www.phoenixcontact.com/us/products/3002786>

## Accessories



Note: Applying some accessories below might limit this product.

### Plug-in bridge

Plug-in bridge - FBS 2-4 - 3030116

<https://www.phoenixcontact.com/us/products/3030116>



Plug-in bridge, pitch: 4.2 mm, color: red



Max. current carrying capacity: 17.5 A

### Plug-in bridge

Plug-in bridge - FBS 2-4 GY - 3030118

<https://www.phoenixcontact.com/us/products/3030118>



Plug-in bridge, pitch: 4.2 mm, color: gray



Max. current carrying capacity: 17.5 A

# Distribution block - PTFIX 18X1,5 VT

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<https://www.phoenixcontact.com/us/products/3002786>



## Plug-in bridge

Plug-in bridge - FBS 2-4 BU - 3030117

<https://www.phoenixcontact.com/us/products/3030117>



Plug-in bridge, pitch: 4.2 mm, color: blue

 Max. current carrying capacity: 17.5 A

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## Flange

Flange - PTFIX 1,5-F - 1049503

<https://www.phoenixcontact.com/us/products/1049503>



Flange, with screw-on fixing, mounting type: Screw mounting, color: gray

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<https://www.phoenixcontact.com/us/products/3002786>



## Insulating sleeve

Insulating sleeve - ISH 1,5/0,2 - 3206131

<https://www.phoenixcontact.com/us/products/3206131>

Insulating sleeve, color: white



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## DIN rail adapter

DIN rail adapter - PTFIX 1,5-NS15A - 1049500

<https://www.phoenixcontact.com/us/products/1049500>

DIN rail adapter, length: 21.6 mm, width: 8 mm, height: 10.85 mm



# Distribution block - PTFIX 18X1,5 VT

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<https://www.phoenixcontact.com/us/products/3002786>



## Insulating sleeve

Insulating sleeve - ISH 1,5/0,5 - 3031034

<https://www.phoenixcontact.com/us/products/3031034>

Insulating sleeve, color: gray



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## DIN rail adapter

DIN rail adapter - PTFIX 1,5-NS35 - 1049497

<https://www.phoenixcontact.com/us/products/1049497>

DIN rail adapter, length: 58.1 mm, width: 21.6 mm, height: 11 mm



# Distribution block - PTFIX 18X1,5 VT



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<https://www.phoenixcontact.com/us/products/3002786>

## DIN rail adapter

DIN rail adapter - PTFIX 1,5-NS35AD - 1049498

<https://www.phoenixcontact.com/us/products/1049498>

DIN rail adapter, for NS 35 for accommodating two rows of PTFIX 1,5 distribution blocks, length: 44.4 mm, width: 8 mm, height: 10.9 mm



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## Mounting adapter

Mounting adapter - PTFIX 1,5-RZF - 1050613

<https://www.phoenixcontact.com/us/products/1050613>

Adapter for direct mounting



# Distribution block - PTFIX 18X1,5 VT

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<https://www.phoenixcontact.com/us/products/3002786>



## Accessories

Accessories - MPS-MT 1-S4-B RD - 1982800

<https://www.phoenixcontact.com/us/products/1982800>

Test plug terminal block, Accessories



## Marker card

Marker card - SK 3,8 REEL P4,15 WH CUS - 0825990

<https://www.phoenixcontact.com/us/products/0825990>



Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm, lettering field size: continuous x 3.8 mm

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<https://www.phoenixcontact.com/us/products/3002786>

## Marking foil for zack marker strip

Marking foil for zack marker strip - TML (EX3,8)R - 0801837

<https://www.phoenixcontact.com/us/products/0801837>



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 3.8 mm, Number of individual labels: 1

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## Marking foil for zack marker strip

Marking foil for zack marker strip - TML (104X3,8)R - 0801833

<https://www.phoenixcontact.com/us/products/0801833>



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500

# Distribution block - PTFIX 18X1,5 VT



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<https://www.phoenixcontact.com/us/products/3002786>

## Marking foil for zack marker strip

Marking foil for zack marker strip - TML (104X2,8)R - 0801832

<https://www.phoenixcontact.com/us/products/0801832>



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 2.8 mm, Number of individual labels: 2500

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## Marking foil for zack marker strip

Marking foil for zack marker strip - TML (EX2,8)R - 0801836

<https://www.phoenixcontact.com/us/products/0801836>



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 2.8 mm, Number of individual labels: 1

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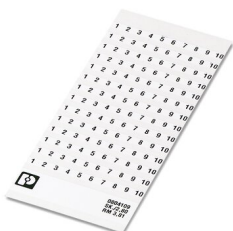
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<https://www.phoenixcontact.com/us/products/3002786>

## Marker card

Marker card - SK 2,8 REEL P4,15 WH CUS - 8199987

<https://www.phoenixcontact.com/us/products/8199987>



Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm, lettering field size: continuous x 2.8 mm

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## Marker for terminal blocks

Marker for terminal blocks - US-TML (104X3,8) - 0830768

<https://www.phoenixcontact.com/us/products/0830768>



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 3.8 mm, Number of individual labels: 22

# Distribution block - PTFIX 18X1,5 VT



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<https://www.phoenixcontact.com/us/products/3002786>

## Marker for terminal blocks

Marker for terminal blocks - US-TML (104X2,8) - 0830767

<https://www.phoenixcontact.com/us/products/0830767>



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 2.8 mm, Number of individual labels: 26

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## Marker card

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906

<https://www.phoenixcontact.com/us/products/0803906>



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

# Distribution block - PTFIX 18X1,5 VT



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## Marker card

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883

<https://www.phoenixcontact.com/us/products/0803883>



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600

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## Label

Label - MM-TML (EX3,8)R C1 WH/BK - 1092026

<https://www.phoenixcontact.com/us/products/1092026>



Label, Roll, white, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, for terminal block width: 8000 mm, lettering field size: continuous x 2.8 mm

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