

## Distribution block - PTFIX 12X1,5-G BK - 3002894

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Distribution block, bridged internally. The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories, nom. voltage: 450 V, nominal current: 17.5 A, connection method: Push-in connection, number of connections: 12, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 26 - 14, width: 24.9 mm, height: 18.7 mm, color: black, mounting type: adhesive

### Your advantages

- ✓ Space-saving, thanks to the compact design
- ✓ Flexible use, thanks to DIN rail and direct mounting
- ✓ Space-saving potential distribution, thanks to compact micro potential distributors
- ✓ Convenient test options, thanks to test openings at every terminal point
- ✓ Clear arrangement thanks to marking of all terminal points



COMPLETE RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 20 pc                                                                                                   |
| GTIN         | <br>4 055626 433004 |
| GTIN         | 4055626433004                                                                                           |

### Technical data

#### General

|                                        |                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Note                                   | Notes on operation The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories |
| Number of levels                       | 1                                                                                                                                         |
| Number of connections                  | 12                                                                                                                                        |
| Potentials                             | 1                                                                                                                                         |
| Nominal cross section                  | 1.5 mm <sup>2</sup>                                                                                                                       |
| Color                                  | black                                                                                                                                     |
| Insulating material                    | PA                                                                                                                                        |
| Flammability rating according to UL 94 | V0                                                                                                                                        |
| Rated surge voltage                    | 6 kV                                                                                                                                      |
| Degree of pollution                    | 3                                                                                                                                         |
| Overvoltage category                   | III                                                                                                                                       |

# Distribution block - PTFIX 12X1,5-G BK - 3002894

## Technical data

### General

|                                                                         |                                                                      |
|-------------------------------------------------------------------------|----------------------------------------------------------------------|
| Insulating material group                                               | I                                                                    |
| Maximum power dissipation for nominal condition                         | 0.56 W                                                               |
| Maximum load current                                                    | 22 A                                                                 |
| Maximum total current                                                   | 26 A                                                                 |
| Nominal current $I_N$                                                   | 17.5 A                                                               |
| Nominal voltage $U_N$                                                   | 450 V                                                                |
| Open side panel                                                         | No                                                                   |
| Ambient temperature (operation)                                         | -35 °C ... 85 °C                                                     |
| Ambient temperature (storage/transport)                                 | 4 °C ... 38 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Permissible humidity (storage/transport)                                | 30 % ... 70 %                                                        |
| Ambient temperature (assembly)                                          | -5 °C ... 70 °C                                                      |
| Ambient temperature (actuation)                                         | -5 °C ... 70 °C                                                      |
| Shock protection test specification                                     | DIN EN 50274 (VDE 0660-514):2002-11                                  |
| Back of the hand protection                                             | guaranteed                                                           |
| Finger protection                                                       | guaranteed                                                           |
| Result of thermal test                                                  | Test passed                                                          |
| Ageing test for screwless modular terminal block temperature cycles     | 192                                                                  |
| Proof of thermal characteristics (needle flame) effective duration      | 30 s                                                                 |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C                                                               |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C                                                               |
| Static insulating material application in cold                          | -60 °C                                                               |
| 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                                                               |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg                                                             |
| 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                                                          |

### Dimensions

|        |         |
|--------|---------|
| Width  | 24.9 mm |
| Length | 21.6 mm |
| Height | 18.7 mm |

### Connection data

|                                    |                      |
|------------------------------------|----------------------|
| Connection method                  | Push-in connection   |
| Stripping length                   | 8 mm ... 10 mm       |
| Connection in acc. with standard   | IEC 60998-2-2        |
| Conductor cross section solid min. | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max. | 2.5 mm <sup>2</sup>  |

## Distribution block - PTFIX 12X1,5-G BK - 3002894

### Technical data

#### Connection data

|                                                                            |                                                |
|----------------------------------------------------------------------------|------------------------------------------------|
| Conductor cross section AWG min.                                           | 26                                             |
| Conductor cross section AWG max.                                           | 14                                             |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup>                           |
| Conductor cross section flexible max.                                      | 1.5 mm <sup>2</sup>                            |
| Min. AWG conductor cross section, flexible                                 | 24                                             |
| Max. AWG conductor cross section, flexible                                 | 14                                             |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>                            |
| Connection cross sections directly pluggable                               | 0.34 mm <sup>2</sup> 2.5 mm <sup>2</sup> 26 14 |
| Conductor cross section solid min.                                         | 0.34 mm <sup>2</sup>                           |
| Conductor cross section solid max.                                         | 2.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.34 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.34 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>                            |
| Internal cylindrical gage                                                  | A1 / B1                                        |

#### Standards and Regulations

|                                        |               |
|----------------------------------------|---------------|
| Connection in acc. with standard       | IEC 60998-2-2 |
| Flammability rating according to UL 94 | V0            |

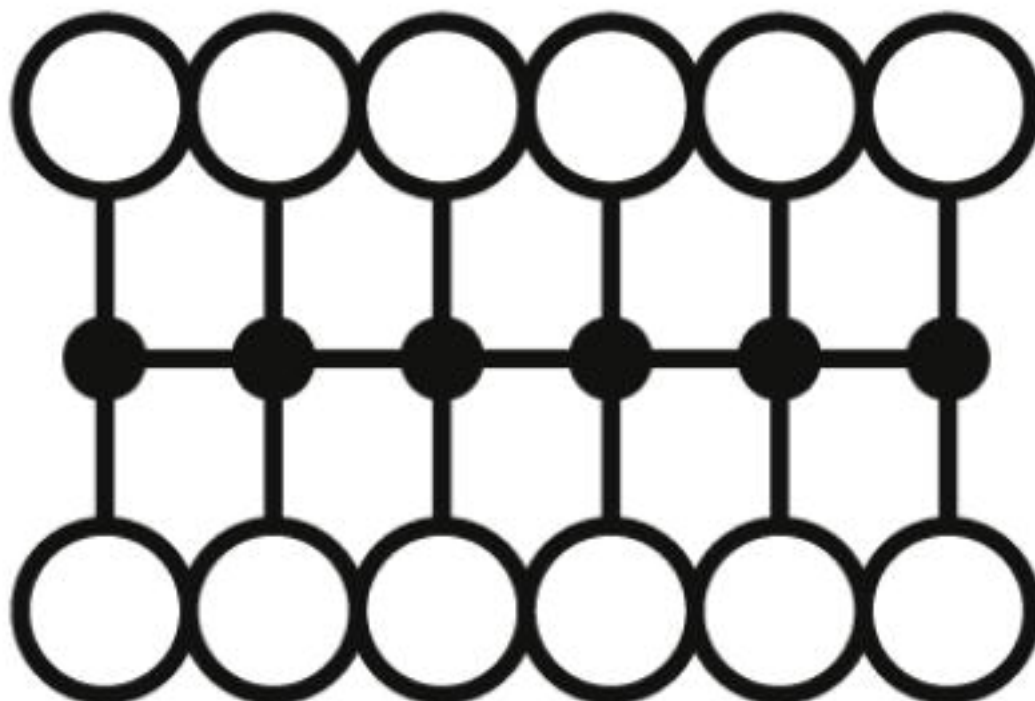
#### Environmental Product Compliance

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

### Drawings

## Distribution block - PTFIX 12X1,5-G BK - 3002894

Circuit diagram



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 4.0    | 27141120 |
| eCl@ss 4.1    | 27141120 |
| eCl@ss 5.0    | 27141120 |
| eCl@ss 5.1    | 27141120 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141120 |
| eCl@ss 8.0    | 27141120 |
| eCl@ss 9.0    | 27141120 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

## Distribution block - PTFIX 12X1,5-G BK - 3002894

### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |
| UNSPSC 20.0   | 39121410 |
| UNSPSC 21.0   | 39121410 |

### Approvals

#### Approvals

#### Approvals

CSA / EAC / EAC / LR / UL Recognized / cUL Recognized / cUL Recognized / DNV GL / IECCEB Scheme / VDE Zeichengenehmigung

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | B                                                                                   | C                                                                                                                                       | D     |
| Nominal voltage UN | 300 V                                                                               | 150 V                                                                                                                                   | 300 V |
| Nominal current IN | 20 A                                                                                | 20 A                                                                                                                                    | 10 A  |
| mm²/AWG/kcmil      | 26-12                                                                               | 26-12                                                                                                                                   | 26-12 |

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00644 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

|    |                                                                                     |                                                         |           |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------|-----------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 2002627TA |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------|-----------|

## Distribution block - PTFIX 12X1,5-G BK - 3002894

### Approvals

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    | B                                                                                 | C                                                                                                                                                     | D            |
| Nominal voltage UN | 300 V                                                                             | 150 V                                                                                                                                                 | 300 V        |
| Nominal current IN | 20 A                                                                              | 20 A                                                                                                                                                  | 10 A         |
| mm²/AWG/kcmil      | 26-12                                                                             | 26-12                                                                                                                                                 | 26-12        |

|                |                                                                                   |                                                                                                                                                       |              |
|----------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|----------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    | B                                                                                 | C                                                                                                                                                     | D            |
| Nominal voltage UN | 300 V                                                                             | 150 V                                                                                                                                                 | 300 V        |
| Nominal current IN | 20 A                                                                              | 20 A                                                                                                                                                  | 10 A         |
| mm²/AWG/kcmil      | 26-12                                                                             | 26-12                                                                                                                                                 | 26-12        |

|                    |                                                                                     |                                                                                   |            |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|
| DNV GL             |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00002TT |
|                    |                                                                                     |                                                                                   |            |
| Nominal voltage UN |                                                                                     | 500 V                                                                             |            |
| Nominal current IN |                                                                                     | 24 A                                                                              |            |

|                    |                                                                                     |                                                           |           |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-61977 |
|                    |                                                                                     |                                                           |           |
| Nominal voltage UN |                                                                                     | 450 V                                                     |           |
| Nominal current IN |                                                                                     | 17.5 A                                                    |           |
| mm²/AWG/kcmil      |                                                                                     | 1.5                                                       |           |

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40047798 |
|                        |                                                                                     |                                                                                                                                                                                                           |          |
| Nominal voltage UN     |                                                                                     | 450 V                                                                                                                                                                                                     |          |
| Nominal current IN     |                                                                                     | 17.5 A                                                                                                                                                                                                    |          |

## Distribution block - PTFIX 12X1,5-G BK - 3002894

### Approvals

|               |         |
|---------------|---------|
|               |         |
| mm²/AWG/kcmil | 0.2-1.5 |

### Accessories

#### Accessories

#### Insulating sleeve

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



Insulating sleeve, color: white

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



Insulating sleeve, color: gray

#### Jumper

Plug-in bridge - FBS 2-4 - 3030116



Plug-in bridge, pitch: 4.2 mm, number of positions: 2, color: red

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



Plug-in bridge, pitch: 4.2 mm, number of positions: 2, color: gray

## Distribution block - PTFIX 12X1,5-G BK - 3002894

### Accessories

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



Plug-in bridge, pitch: 4.2 mm, number of positions: 2, color: blue

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### Labeled terminal marker

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



Marker card, 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

---

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



Marker card, 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

---

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



Marker card, 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

---

Marker card - SK 3,8 REEL P4,15 WH CUS - 8199988



Marker card, 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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### Terminal marking



## Distribution block - PTFIX 12X1,5-G BK - 3002894

### Accessories

#### Marking foil for zack marker strip - TML (EX3,8)R - 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 - TML (104X3,8)R - 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

---

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

---

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

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

## Distribution block - PTFIX 12X1,5-G BK - 3002894

### Accessories

#### Marking foil for zack marker strip - TML (EX2,8)R - 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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#### Marker for terminal blocks - US-TML (104X3,8) - 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

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#### Marker for terminal blocks - US-TML (104X2,8) - 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 - SK U/3,8 WH:UNBEDRUCKT - 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

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#### Marker card - SK U/2,8 WH:UNBEDRUCKT - 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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#### Test plug terminal block

## Distribution block - PTFIX 12X1,5-G BK - 3002894

### Accessories

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



Accessories

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