We are pleased to announce that Distribution Blocks are now released for sale.

Distribution blocks are used to realize single-, two-, three- and four-phase systems up to a rated current of 400 A. This enables to split power supply circuits in several load circuits with different cable cross-sections.

The following Distribution Blocks are SCCR rated only with Class J Fuses. See detailed technical sheet on the next page.

**Highlights**
- Fast mounting on DIN-Rail with click connection or on mounting plate with 2 x M5 screws
- Place saving
- Safety because of IP20 degree of protection and no cap to open or remove

**High thermic and mechanical robustness**
Distribution blocks are made of thermoplastic with electrical and mechanical parts, which allows a usage under high thermic and mechanical load according to IEC 60947-7-1.

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>No. of poles</th>
<th>Ampere rating</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>5ST2504</td>
<td>1</td>
<td>80</td>
<td>600V</td>
</tr>
<tr>
<td>5ST2505</td>
<td>1</td>
<td>125</td>
<td>600V</td>
</tr>
<tr>
<td>5ST2507</td>
<td>1</td>
<td>160</td>
<td>600V</td>
</tr>
<tr>
<td>5ST2508</td>
<td>1</td>
<td>250</td>
<td>600V</td>
</tr>
<tr>
<td>5ST2511</td>
<td>1</td>
<td>350</td>
<td>600V</td>
</tr>
</tbody>
</table>

Answers for infrastructure and cities.
## Distribution blocks

<table>
<thead>
<tr>
<th>Standards, Certifications</th>
<th>5ST2 504</th>
<th>5ST2 505</th>
<th>5ST2 507</th>
<th>5ST2 508</th>
<th>5ST2 511</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL 1059 / UL 486E / IEC 60947-7-1</td>
<td>UL File Nr. E80027 / XCFR2</td>
<td>C22.2 No158 - 1987 / XCFR8</td>
<td>UL 486E / IEC 60947-7-1</td>
<td>UL File Nr. E80027 / XCFR2</td>
<td></td>
</tr>
</tbody>
</table>

### Degree of Protection
- **IP20**

### Poles
- **1**

### Approved cable
- **Copper**

### Typ wiring
- **Factory and field wiring**
- **Pressure wire connector**

### Conductor cross-section

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solid and Stranded to UL</td>
<td>Large AWG</td>
<td>1x8 ... 4</td>
<td>1x8 ... 2</td>
<td>1x8 ... 2 / 0</td>
<td>1x2 ... 4 / 0</td>
</tr>
<tr>
<td>Solid and Stranded to IEC</td>
<td>mm²</td>
<td>2.5 ... 16</td>
<td>10 ... 35</td>
<td>10 ... 70</td>
<td>35 ... 120</td>
</tr>
</tbody>
</table>

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solid and Stranded to UL</td>
<td>TOP AWG</td>
<td>4x14 ... 10</td>
<td>6x14 ... 4</td>
<td>6x14 ... 4</td>
<td>4x14 ... 6</td>
</tr>
<tr>
<td>Solid and Stranded to IEC</td>
<td>mm²</td>
<td>2.5 ... 6</td>
<td>2.5 ... 16</td>
<td>2.5 ... 25</td>
<td>1.5 ... 16</td>
</tr>
</tbody>
</table>

### Screw torque

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fitting connection</td>
<td>lb/in</td>
<td>13.5</td>
<td>31</td>
<td>35.7</td>
<td>170</td>
</tr>
<tr>
<td>Nm</td>
<td>3</td>
<td>3.5</td>
<td>5</td>
<td>19</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allen key(4mm)</td>
<td>Allen key(5mm)</td>
<td>Allen key(6mm)</td>
<td>Allen key(8mm)</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large</td>
<td>lb/in</td>
<td>13.5</td>
<td>17.5</td>
<td>31</td>
<td>3.5</td>
</tr>
<tr>
<td>Nm</td>
<td>3</td>
<td>2</td>
<td>31</td>
<td>3.5</td>
<td></td>
</tr>
<tr>
<td>Fitting connection</td>
<td>PZ2</td>
<td>Standard screwdriver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small</td>
<td>lb/in</td>
<td>7.2</td>
<td>—</td>
<td>31</td>
<td>3.5</td>
</tr>
<tr>
<td>Nm</td>
<td>0.8</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fitting connection</td>
<td>PZ1</td>
<td>Standard screwdriver</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Amper per pole, max.
- **UL, max.** 80
- **IEC, max.** 600

### Operational voltage
- **UL, max.** 600
- **IEC, max.** 690

### Overcurrent protection fuse

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required class</strong></td>
<td>J</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Max Amp Rating</strong></td>
<td>A</td>
<td>80</td>
<td>125</td>
<td>160</td>
<td>250</td>
</tr>
<tr>
<td><strong>SCCR RMS Sym A</strong></td>
<td>kA</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rated peak withstand current (IpK)</strong></td>
<td>kA</td>
<td>2.7</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rated short-time withstand current (low1s)</strong></td>
<td>kA</td>
<td>1.9</td>
<td>4.4</td>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

### Spacings

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trough Air</strong></td>
<td>in (mm)</td>
<td>3 / 8 (9.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Over Surface</strong></td>
<td>in (mm)</td>
<td>1 / 2 (12.7)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Flammability Rating
- **UL94V-0**

### Block Dimension (D x H x W)
- **mm** 66x49x27, 74x49x27, 92x35x49, 96x49x45, 96x49x45

### Connections

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>With cable up to 16mm²</strong></td>
<td>With connector or cable up to 16mm²</td>
<td>side access for parallel connection with copper bar (max. 16 x 5 mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) Only stranded.
2) Copper jumper has been investigated for a 100A rating.
Standards, Certifications
- UL 1059 / UL 486E / IEC 60947-7-1
- UL File Nr. E80027 / XCFR2
- C22.2 No158 -1987 / XCFR8

Degree of Protection
- IP20

Poles
- 1

Approved cable
- Copper

Typ wiring
- Front/Back
- Factory and field wiring
- Pressure wire connector

Conductor cross-section
- Input
  - Solid and Stranded to UL
    - Large
    - AWG 1x8 … 4
    - 1x8 … 2
    - 1x8 … 2 / 0
    - 1x2 … 4 / 0
    - 1x3 / 0... 350 MCM
  - Solid and Stranded to IEC
    - mm² 2.5 … 16
    - 10 … 35
    - 10 … 70
    - 35 … 120
    - 95 … 185
- Solid and Stranded to UL
- Solid and Stranded to IEC

- Small
  - AWG
  - mm² — —
  - 1x14 ... 4
  - 2.5 ... 25
  - — —

- Output
  - Solid and Stranded to UL
  - Solid and Stranded to IEC
  - TOP
  - AWG
  - mm²
  - 4x14 … 10
  - 2.5 … 6
  - 6x14 … 4
  - 2.5 … 16
  - 6x14 … 4
  - 1.5 … 16
  - 95 … 185
- Solid and Stranded to UL
- Solid and Stranded to IEC

- Middle
  - AWG
  - mm² — —
  - 4x14 … 8
  - 1.5 … 10

- Bottom
  - AWG
  - mm² — —
  - 3x8 … 4
  - 2.5 … 16
  - — —
  - 2x14 … 2 / 1x14 … 6
  - 2x6 … 35 / 1.5 … 16

Screw torque
- Input
  - Fitting connection
  - lb/in
  - Nm
  - 13.5
  - 3
  - 31
  - 3.5
  - Allen key(4mm)
  - 35.7
  - 5
  - Allen key(5mm)
  - 170
  - 19
  - Allen key(6mm)
  - 230
  - 25
  - Allen key(8mm)
- Output
  - Large
  - Fitting connection
  - lb/in
  - Nm
  - 13.5
  - 3
  - 17.5
  - 2
  - 31
  - 3.5
  - Allen key(4mm)
  - 35.7
  - 5
  - Allen key(5mm)
  - 170
  - 19
  - Allen key(6mm)

Amper per pole, max.
- 80
- 115
- 160
- 230
- 310

Operational voltage
- UL, max.
- IEC, max.
- V
- V
- 600
- 690

Overcurrent protection fuse
- Required class
- J
- Max Amp Rating
- A
- 80
- 125
- 160
- 250
- 350
- SCCR RMS Sym A
- kA
- 100
- Rated peak withstand current (Ipk)
- kA
- 2.7
- 30
- 51
- Rated short-time withstand current (low1s)
- kA
- 1.9
- 4.4
- 11
- 21

Spacings
- Trough Air
- Over Surface
- in (mm)
- in (mm)
- 3 / 8 (9.5)
- 1 / 2 (12.7)

Flammability Rating
- UL94V-0

Block Dimension (D x H x W)
- mm
- 66x49x27
- 74x49x27
- 92x35x49
- 96x49x45
- 96x49x45

Connections
- with cable up to 16mm²
- With connector or cable up to 16mm²
- side access for parallel connection with copper bar (max. 16 x 5 mm)

Distribution blocks
Dimensions
5ST2 504
5ST2 505
5ST2 507
5ST2 508
5ST2 511
Available Collateral for 5S Breakers & Terminal Blocks

Product Guide for 5SY and 5SP Supplementary Protectors

Xerox Order Number: PDCA-5SSPY-0913

www.usa.siemens.com/5SY

Product Guide for 5SJ Miniature Circuit Breakers

Xerox Order Number: PDCA-5SJ4U-0913

www.usa.siemens.com/5SJ

Terminal Blocks Catalog 2013

Xerox Order Number: PDCA-TERMB-1013

www.usa.siemens.com/terminalblocks

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