**J Frame - Series Moulded Case Circuit Breakers**

**Features**
- Hydraulic-magnetic technology
- 100% rating capacity; independent of ambient temperature
- One and three poles
- Ratings from 30 to 250 A (750 A DC)
- Trip button for mechanical confirmation of operation
- Precision tripping characteristics
- Reset immediately after overload

**Applications**
- AC and DC branch circuit installations
- Telecom / datacom equipment
- UPS equipment
- Alternative energy equipment
- Mobile power generation
- Battery protection and switching
- Municipal kiosks (feeder breaker)

**Optional Accessories**
- Shunt trip
- Auxiliary switch
- Undervoltage release
- Trip Alarm
- Cylindrical lock
- Handle lock
- Daros rotary handle
- Inter-phase barriers
- Terminal covers
- Various termination types

**Approvals**
- (IEC / EN 60947-2 / 3)
- (UL 489A)
- SANS 60947-2 / 3
## Technical Data

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Circuit Breaker JS25</th>
<th>Circuit Breaker J25S</th>
<th>Switch Disconnector J25SN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Ampere Ratings (A) – AC</td>
<td>30 - 250 A</td>
<td>30 - 250 A</td>
<td>100 - 250 A</td>
</tr>
<tr>
<td>Standard Ampere Ratings (A) – DC</td>
<td>80 - 250 A</td>
<td>300 - 750 A</td>
<td></td>
</tr>
<tr>
<td>Number of Poles</td>
<td>1</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Rated Interrupting / Withstand Capacity (kA)</td>
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</tr>
<tr>
<td>Tripping Curve</td>
<td>JS</td>
<td>JS</td>
<td>-</td>
</tr>
<tr>
<td>Terminations</td>
<td>Standard</td>
<td>G1 lug terminal up to 150 A; G4B stub busbar above 150 A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Optional</td>
<td>G1 extended lug up to 250 A; G2 box terminal up to 100 A; G7 rear connecting studs up to 250 A; G5 tandem box up to 250 A.</td>
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</tbody>
</table>

**Product Type JS25**

- **Approvals**: SANS 60947-2, IEC / EN 60947-2
- **Number of Poles**: 1
- **Operating Voltages (AC)**: 240 V AC
- **Minimum Current Rating**: 30 A
- **Maximum Current Rating**: 250 A
- **Interrupting Capacity**: 25 kA

**Product Type JS25**

- **Approvals**: SANS 60947-2, IEC / EN 60947-2
- **Number of Poles**: 1
- **Operating Voltages (DC)**: 80 V DC
- **Minimum Current Rating**: 80 A
- **Maximum Current Rating**: 250 A
- **Interrupting Capacity**: 20 kA

**Product Type JS25**

- **Approvals**: UL 489A
- **Number of Poles**: 1
- **Operating Voltages (DC)**: 80 V DC
- **Minimum Current Rating**: 100 A
- **Maximum Current Rating**: 250 A
- **Interrupting Capacity**: 25 kA

**Product Type J25S**

- **Approvals**: SANS 60947-2, IEC / EN 60947-2
- **Number of Poles**: 3
- **Operating Voltages (AC)**: 415 V AC
- **Minimum Current Rating**: 30 A
- **Maximum Current Rating**: 250 A
- **Interrupting Capacity**: 25 kA | 15 kA
## J Frame - Series Moulded Case Circuit Breakers

### Technical Data

<table>
<thead>
<tr>
<th>Product Type</th>
<th>J25S</th>
<th>J25SN</th>
<th>J Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approvals</td>
<td>IEC 60947-2</td>
<td>UL 489A</td>
<td>SANS 60947-3</td>
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<tr>
<td>Number of Poles</td>
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<tr>
<td>Operating Voltages (DC)</td>
<td>80 V DC</td>
<td>80 V DC</td>
<td>415 V AC - 525 V AC</td>
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<tr>
<td>Minimum Current Rating</td>
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<td>300 A</td>
<td>100 A</td>
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<tr>
<td>Maximum Current Rating</td>
<td>750 A</td>
<td>750 A</td>
<td>250 A</td>
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<tr>
<td>Interrupting Capacity</td>
<td>20 kA</td>
<td>25 kA</td>
<td>15 kA</td>
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</table>

**J25S**
- Approvals: UL 489A
- Number of Poles: 3
- Operating Voltages (DC): 80 V DC
- Minimum Current Rating: 300 A
- Maximum Current Rating: 750 A
- Interrupting Capacity: 20 kA

**J25SN**
- Approvals: SANS 60947-3
- Number of Poles: 3
- Operating Voltages (AC): 415 V AC - 525 V AC
- Minimum Current Rating: 100 A
- Maximum Current Rating: 250 A
- Interrupting Capacity: 25 kA

**J Frame**
- Operating Temperature Range: -40 °C to +85 °C
- Mounting Options: Surface mount
- Time Delay Curves: JS
- Endurance: 10000 operations - 1500 electrical at rated current and voltage (IEC 60947-2) 1000 electrical operations (UL 489A)
- Dielectric Strength: 1480 V (single pole) / 1830 - 2100 V (multi pole), 50 Hz for one minute after testing
- Weight: 1.3 kg - J525, 3 kg - J25S, 2.37 kg - J25SN (unpacked)
- Humidity: 35 to 85% relative
- Altitude: Tested at 1600 m above sea level
- Shock: 100 G to MIL-STD-202G, test method 213B, test condition 1
- Vibration: 10 G to MIL-STD-202G, test method 204D, test condition A
- Flammability: V0 rated
- Toxicity: F1 - Smoke index of ≤ 20 which determines the fume class
- Pollution Degree: PD2 - Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.
J Frame - Series Moulded Case Circuit Breakers

Ordering Information

Example Code 1: JSS0125

<table>
<thead>
<tr>
<th>Group</th>
<th>Requirement</th>
<th>Order Number</th>
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<tbody>
<tr>
<td>1</td>
<td>JS25 Frame</td>
<td>JSS0</td>
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<td>2</td>
<td>125 A</td>
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<table>
<thead>
<tr>
<th>Type</th>
<th>Barriers</th>
<th>Poles</th>
<th>Terminals</th>
<th>kA @ 240 V</th>
<th>kA @ 415 V</th>
<th>kA @ 525 V</th>
<th>Rating (A)</th>
<th>Order No.</th>
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<tbody>
<tr>
<td>JS25</td>
<td>1</td>
<td></td>
<td>G1</td>
<td>25</td>
<td>-</td>
<td>-</td>
<td>80, 100</td>
<td>JSS0_ _ _</td>
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<td></td>
<td></td>
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<td>G4B</td>
<td>25</td>
<td>-</td>
<td>-</td>
<td>125</td>
<td>JSS0125</td>
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<td>J25S</td>
<td>4</td>
<td>3</td>
<td>G1</td>
<td>-</td>
<td>25</td>
<td>15</td>
<td>80, 100</td>
<td>JSS0_ _ _</td>
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<tr>
<td></td>
<td></td>
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<td>G4B</td>
<td>-</td>
<td>25</td>
<td>15</td>
<td>20, 30, 40, 50, 60</td>
<td>JSS0_ _ _</td>
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<tr>
<td>J25SN</td>
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<td>3</td>
<td>G1</td>
<td>-</td>
<td>25++</td>
<td>15++</td>
<td>100</td>
<td>JSS0100</td>
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<td>G4B</td>
<td>-</td>
<td>25++</td>
<td>15++</td>
<td>150</td>
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<td>200</td>
<td>JSS0200</td>
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</table>

Switch Disconnector

| J25SN   | 3        | 3     | G1        | -          | 25++       | 15++       | 100        | JSN0100   |
|         |          |       | G4B       | -          | 25++       | 15++       | 150        | JSN0150   |
|         |          |       |           |            |            |            | 200        | JSN0200   |
|         |          |       |           |            |            |            | 250        | JSN0250   |

JS Accessories Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Comments</th>
<th>Order Number</th>
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<tbody>
<tr>
<td>Shunt Trip</td>
<td>110 - 250 V AC</td>
<td>FSAA002</td>
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<td></td>
<td>380 - 600 V AC</td>
<td>FSAA003</td>
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<td></td>
<td>24 V DC</td>
<td>FSAA001</td>
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<tr>
<td>Undervoltage Release</td>
<td>220 - 250 V AC</td>
<td>FSAC220</td>
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<td>380 - 440 V AC</td>
<td>FSAC380</td>
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<tr>
<td>Auxiliary Switch</td>
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<td>FSAH002</td>
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<tr>
<td>Trip Alarm Switch</td>
<td></td>
<td>FSAF001</td>
</tr>
<tr>
<td>Auxiliary + Trip Alarm Switch Combo</td>
<td></td>
<td>FSAV001</td>
</tr>
<tr>
<td>Handle Lock</td>
<td></td>
<td>FSAPO01</td>
</tr>
<tr>
<td>G4B Stub Busbar (500 - 600 A)</td>
<td>3 per set for line or load side</td>
<td>FSAX001</td>
</tr>
<tr>
<td>G5 Tandem Box Terminal (250 A max.)</td>
<td>3 per set for line or load side</td>
<td>FSAX002</td>
</tr>
<tr>
<td>Daros Rotary Handle</td>
<td></td>
<td>4470076</td>
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<td>Phase Barriers</td>
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<td>FSAX004</td>
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<tr>
<td>Terminal Covers (Each) (Line or Load)</td>
<td></td>
<td>FSAX005</td>
</tr>
</tbody>
</table>

For options not listed, please contact CBI
The published time delay curves are generated at 30°C ambient temperature with the Circuit Breaker mounted in the up-right position. The “must hold”, “must trip” and “instantaneous trip” current values are not affected by temperature, although delay time for the other operating current values may have to be adjusted using the temperature compensation curve which is available on request.
Time Delay Curves

The published time delay curves are generated at 30°C ambient temperature with the Circuit Breaker mounted in the up-right position. The “must hold”, “must trip” and “instantaneous trip” current values are not affected by temperature, although delay time for the other operating current values may have to be adjusted using the temperature compensation curve which is available on request.
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LUG CONNECTING UNIT
(RATINGS 10A TO 130A)

- Dimensions and labels are shown in the diagram.
- Tolerances are indicated in the diagram.

J Frame Dimensional Drawings
EXTENDED LUG CONNECTING UNIT
(RATINGS 150A TO 250A)

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J25 Frame Dimensional Drawings

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TENDEM BOX TERMINAL UNIT (RATINGS 10A TO 250A)
JS25 Frame Dimensional Drawings

REAR CONNECTING STUDS UNIT
(RATINGS 10A TO 250A)

M12 REAR CONNECTING STUDS

TOLERANCE ±0.4 UNLESS OTHERWISE SPECIFIED
(DIMENSIONS IN BRACKETS ARE IN INCH)
J Frame - Series Moulded Case Circuit Breakers

J25S Frame Dimensional Drawings

LUG CONNECTING UNIT (RATINGS 10A TO 130A)

TOLERANCE .05 UNLESS OTHERWISE SPECIFIED

DIMENSIONS IN MILLIMETERS

MIT TERMINAL SCREW

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