## What's New?

Siemens Energy \& Automation is proud to announce several new products. These new concepts serve the OEM and power distribution markets.

## WL Power Circuit Breakers



It's the Circuit Breaker that changes everything! And it's armed with a full array of competitive advantages:

- Reliable - increased operations and better than 1\% metering accuracy
- Compact - smallest switchgear footprint in the industry
- Easy to Use - straightforward catalog numbers \& selection tools
- Modular - drop-in, front-mounted accessories \& field changeable main contacts
. System Solution - Internet/Ethernet, Modbus and Profibus communications
- Safety - customized interlocking and unique status indicators


## Specifications and Applications:

. Standards: UL489, UL1066 and ANSI C37

- Frame Ratings: 800A to 5000A
- Rated Nominal Voltages: 240, 480 and 600VAC
- Interrupting Ratings: from 50KA to 150KA un-fused and 200KA fused
- Assemblies: Fixed mounted, draw-out Circuit Breaker or Non-automatic Switch
- Applicable for all ICCB or RL Breaker applications

The WL Circuit Breaker may be new to North America, but it has already been proven in the field - with two years of flawless performance in Europe. No other product on the market today offers more flexibility or greater reliability.

## Sentron Distribution Lug



Distribution lugs are now available for use with Siemens Sentron E, F, J and L-frame circuit breakers. These lugs are UL 486-B recognized and are ideal for UL 508 control panel applications to replace a distribution block. Using the Sentron distribution lugs can reduce the need for extra wire stripping. They also reduce the use of extra crimp connectors going between the circuit breaker and distribution block.

## CE Marking

A wide range of Sentron ${ }^{\circledR}$ thermal magnetic circuit breakers has been fully tested for compliance with the European community's Low Voltage Directive, and carry the CE mark, indicating their compliance with that directive. These are noted in the Speedfax with the stylized CE in watermark behind the catalog numbers. Declarations of conformity are available for these products. A point of misunderstanding lies in the area of handle operators. A handle operator alone, such as that for the Max-flex, since there is no applicable European Directive, may not carry the CE mark. The mark is affixed to the finished equipment that incorporates the handle, but not to this component device.

## PLC Level Auxiliary Switches

A new family of gold flashed auxiliary switches for the FD through ND breakers allows sensing at very low voltage and currents for interface directly to programmable logic controllers and other electronic devices. Standard contacts, built to switch 120 Volts and higher currents can be unreliable when the sensing current is in the milliamp range, and the sensing voltage is 12 Volts or lower. These very reliable low level switches overcome that limitation. Standard switch contacts should, of course, continue to be used in standard current and voltage applications.

DIN Rail mounted 120/240 V Breaker


The Siemens BQ breakers are now available in 1- and 2-pole construction, from 15 to 60 Amps in lug in - lug out DIN rail mounted configuration. These breakers, rated 120/240 Volts, are ideal for applications in control panels and HVAC, and with their available finger safe terminal shields can qualify as service disconnects.

NGG Type 125A Frame Circuit Breaker


The new NGG Circuit Breaker is a compact, industrial design with true value-added features such as Global Ratings (UL/CSA/IEC/CE/NOM), flexible DIN or base mounting without the need for adapters and UL Listed for field install-able accessories. This NGG125 has a 25 KAIC interrupting rating at 480VAC and features a Quick Make/Quick Break Trip-free Mechanism. All this in a 3.0W $\times 5.4 \mathrm{H} \times 2.8 \mathrm{D}$ package. Please consult your sales office for availability.

## HID Lighting Breakers

Siemens BQD and CQD circuit breakers have been tested and approved for use in switching HID lighting. One, two and three pole breakers from 15A to 50A are now approved and marked for use in these high energy lighting systems where the breakers is used to directly control the lighting in 120VAC, 240VAC, 277AC or 480/277VAC circuits.

Trip Unit Type
$\square$ - Omitted - Thermal-Magnetic
S - Sensitrip ${ }^{\text {E }}$ Electronic Trip
Sentron Series Type/Interrupting Range
$\square$ - Omitted - Standard Rating
H - High IC Rating
HH - Extra High IC Rating
C - Highest IC Rating and Current Limiting

| Frame Identifier |  |
| :--- | :--- |
| E - Type ED | M - Type MD |
| F - Type FD | N - Type ND |
| J - Type D D | P - Type PD |
| L - Typ LD | R - Type RD |
| LM - Type LMD | T - Type TD |

Maximum Voltage
$2-240 \mathrm{Vac}$
4-480 Vac
$6-600 \mathrm{Vac}$
Number of Poles
1
3
9 used to indicate the max. functions for an electronic trip circuit breaker (always 3 poles)
(Specific Application Type)
B - Standard $40^{\circ} \mathrm{C}$ Breaker
M - Calibrated for $50^{\circ} \mathrm{C}$ Application
F - Frame Only
T $-40^{\circ} \mathrm{C}$ Trip Unit Only
W-50 ${ }^{\circ} \mathrm{C}$ Trip Unit Only
S - Molded Case Switch
L - Low Instantaneous Range ETI Breaker
A - Standard Range ETI Breaker
H - High Instantaneous Range ETI Breaker
Maximum Continuous Current Rating
ED Frame - 015, 020, 025, 030, 035, 040, 045, 050, 060, 070, 080, 090, 100, 110, 125
FD Frame - $070,080,090,100,110,125,150,175,200,225,250$
J D Frame - 200, 225, 250, 300, 350, 400
LD Frame - 250, 300, 350, 400, 450, 500, 600
LMD Frame - 500, 600, 700, 800
MD Frame - 500, 600, 700, 800
ND Frame - 900, 100 (1000A), 120 (1200A)
PD Frame - 120 (1200A), 140 (1400A), 160 (1600A)
RD Frame - 160 (1600A), 180 (1800A), 200 (2000A)
TD Frame - 2000, 2500, 3200

## Suffix

L — where applicable indicates a breaker shipped with line/loads lugs installed
A - used with a switch to show automatic self protection
Y - 400 Hertz
H - 100\% rated
P - Load side lugs only

## NOTE:

$\square$ - Position omitted if not used.

## Selection

Type J XD2-A⑤
240V AC, 2-Pole 250V DC Only
Blue Label
Non-Interchangeable Trip (Assembled Circuit Breaker without Lugs)

| Continuous Current Rating <br> @ $40^{\circ} \mathrm{C}$ | 2-Pole (3 Pole Width) |  | 3-Pole |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
| 200 | J XD22B200■ |  | J XD23B200 |  |
| 225 | J XD22B225 |  | J XD23B225 |  |
| 250 | J XD22B250 |  | J XD23B250 |  |
| 300 | J XD22B300 |  | J XD23B300 |  |
| 350 400 | ${ }^{\text {J X X }}$ X22B350 |  | ${ }_{j} \mathrm{XDD23B350}$ XD23B400 |  |
| 400 | J XD22B400 |  | J XD23B400 |  |

Type J XD6-A (1)
600V AC, 2-Pole 250V DC, 3-Pole 500V DC ${ }^{(2)}$

## Blue Label

| Non-Interchangeable Trip (Assembled Circuit Breaker without Lugs) |  |  |
| :---: | :---: | :---: |
| 200 | J XD62B200 | J XD63B200 |
| 225 | J XD62B225 | J XD638225 |
| 250 | J XD62B250] | J XD638250 |
| 300 350 | J XD628300 JD62B350 | J XD63B300 <br> XD 638350 |
| 350 400 | J ${ }^{\text {JDD62B3501 }}$ | J XD633350 J XD63B400 |

Type J D6-A⑤
Blue Label

| Interchangeable Trip |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Continuous | Complete Breaker Unassembled with Lugs |  | Frame Only |  | Trip Unit Only |  |
| Current Rating <br> @ $40^{\circ} \mathrm{C}$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ |

## 2-Pole 600V AC, 250V DC (3 Pole Width)

| 200 | J D62B200■ |  | J D62T200■ |  |
| :---: | :---: | :---: | :---: | :---: |
| 225 | J D62B225- |  | J D62T225 |  |
| 250 | J D62B250 |  | J D62T250 |  |
| 300 | J D62B300 | J D62F400 | J D62T300 |  |
| 350 400 | ${ }^{J}$ D62B350 |  | ${ }_{\text {J D62T350 }}$ |  |

3-Pole 600 V AC, 500 V DC(2)

| 200 | J D63B200 |  |  |  | J D63T200 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 225 | J D63B225 |  |  |  | J D63T225 |  |
| 250 | J D63B250 |  | J D63F400 |  | J D63T250 |  |
| 300 | J D63B300 |  |  |  |  |  |
| 350 | J D63T300 |  |  |  |  |  |
| 400 | J D63B350 |  |  |  | J D63T350 |  |

## Intemupting Ratings

| Breaker Type | RMS Symmetrical Amperes (KA) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | UL 489 AIR (File E10848) |  |  |  |  | IEC 947-2 |  |  |  |  |  |
|  | Volts AC$(50 / 60 \mathrm{~Hz})$ |  |  | Volts DC |  | Volts AC (50/60Hz) |  |  |  |  |  |
|  |  |  |  | 220/240 | 380/415 |  | 500 |  |
|  | 240 | 480 | 600 |  |  | 250 | $500{ }^{2}$ | Icu | Ics | Icu | Ics | Icu | Ics |
| J XD2-A | 65 | - | - | 30 (2-P) | - | - | - | - | - | - | - |
| J XD6-A, J D6-A | 65 | 35 | 25 | 30 (2-P) | 25 (3-P) | 65 | 33 | 40 | 20 | 30 | 15 |
| HJ D6-A, HJ XD6-A | 100 | 65 | 35 | 30 (2-P) | 35 (3-P) | 100 | 50 | 65 | 33 | 42 | 21 |
| HHJ D6, HHJ XD6 ${ }^{(1)}$ | 200 | 100 | 50 | - | - | 200 | 100 | 100 | 50 | 65 | 33 |
| CJ D6-A | 200 | 150 | 100 | - | 50 (3-P) | - | - | - | - | - | - |

Instantaneous Adjustment Trip Range

| Breaker Ampere <br> Rating | Nominal Instantaneous Values |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | $\mathbf{+ 2 0 \%}$ <br> Tolerance <br> Low | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{+ 2 0 \%}$ <br> Tolerance <br> High |
|  | 1250 | 1430 | 1610 | 1790 | 1960 | 2140 | 2320 | 2500 |
| $350-400$ | 2000 | 2290 | 2570 | 2860 | 3140 | 3430 | 3710 | 4000 |

- Built to order. Allow 2-3 weeks for delivery.
(1) Type J XD2 and J XD6 circuit breakers are UL Listed for reverse feed applications.
(2) When wired as shown on page $17 / 3$, this circuit breaker is UL listed and rated for use on 500V DC ungrounded UPS systems only.
(3) See Note: A, page 17/67.
(4) HHJ D6 type circuit breakers meet the UL criteria for "current limiting" at 240 and 480 V AC.
(5) HACR rated.

Note: J D frame qualified to UL489 supplement B "NAVAL." See page 17/70 for additional information.

## Ordering Information

Complete Breaker Unassembled with Lugs
Prices of J D6, HJ D6, and HHJ D6 breakers include frame, trip and both line and load lugs (TA2J 6500). When ordered by these catalog numbers, the customer will receive the frame, trip, and lugs separately packaged. For applications requiring different lugs, order individual items as needed.
Complete Breaker Assembled without Lugs
Prices of J XD6, HJ XD6, HHJ XD6, and CJ D6 include frame with non-interchangeable trip unit installed only. Order required lugs separately. For line and load lugs (TA2J 6500) installed, add suffix " $L$ " to catalog number (add 2 times list price of lugs for each pole).

## 100\% Rated

Types J XD6 and HJ XD6 breakers are available with $100 \%$ ratings. To order add suffix " H " to catalog number, and $10 \%$ to list price.■ $100 \%$ rated J D breakers require the use of $90^{\circ} \mathrm{C}$ Cu cable and lugs TC1J 6600 or TC2J 6500.
$5 \mathbf{5 0}^{\circ} \mathbf{C}$ Applications see page $17 / 70$.
400Hz Applications see page 17/70.

## Lugs For $75^{\circ} \mathrm{C}$ Wire ${ }^{3}$

| Catalog Number | Cables per Lug | Wire Range | List Price \$ |
| :---: | :---: | :---: | :---: |
| TA2J 6500 | $\begin{array}{\|l} \hline 1,2 \\ 2 \\ 1 \\ \hline \end{array}$ | $\begin{aligned} & \$ 3 / 0-500 \text { kcmil } \mathrm{Cu} \\ & \# 4 / 0-500 \mathrm{kcmil} \mathrm{Al} \\ & 250-500 \text { kcmil Al } \end{aligned}$ |  |
| TA1L6750 | $\begin{array}{\|l\|} \hline 1 \\ \hline 1 \\ \hline \end{array}$ | $\begin{aligned} & 500-750 \mathrm{kcmil} \mathrm{Al} \\ & 500-600 \mathrm{kcmil} \end{aligned}$ |  |
| TCI) 6600 | 1 | \#3/0-600 kcmil Cu |  |
| TC2) 6500 | 1,2 | \#3/0-500 kcmil Cu |  |
| Compression Lug |  |  |  |
| CCL600 | 1 | $500 \mathrm{kcmil} \mathrm{Cu} / \mathrm{Al}$ |  |

