## 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

All $\mathrm{BQ} / \mathrm{BQH} / \mathrm{HBQ}$ circuit breakers are supplied with load side lugs. If line side lugs are required, add suffix "L" to catalog number. Lugs will be supplied at no charge if ordered with the circuit breaker. All standard circuit breakers are calibrated for 40(insert degree symbol)C maximum ambient application.
1-Pole Plug-In (120V AC) ${ }^{\text {(®) }}$

| Continuous Current Rating @ $40^{\circ} \mathrm{C}$ | Type BQ |  | Type BQH |  | Type HBQ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10,000A IR |  | 22,000A IR |  | 65,000A IR |  |
|  | Catalog Number | List Price \$ | Catalog Number | List Price \$ | Catalog Number | List Price \$ |
| 10 | BQ1B010 |  | - |  | - |  |
| 15 | BQ1B015 ${ }^{\text { }}$ |  | BQ1B015 ${ }^{(4)}$ |  | HB1B015 ${ }^{\text {(4) }}$ |  |
| 20 | BQ1B020 ${ }^{\text { }}$ |  | BQ1B020H ${ }^{(4)}$ |  | HB1B020 ${ }^{\text {(4) }}$ |  |
| 25 | BQ1B025 |  | BQ1B025H |  | HB1B025 |  |
| 30 | BQ1B030 |  | BQ1B030H |  | HB1B030 |  |
| 35 | BQ1B035 |  | BQ1B035 ${ }^{\text {- }}$ |  | HB1B035 |  |
| 40 | BQ1B040 |  | BQ1B040H |  | HB1B040 |  |
| 45 | BQ1B045 |  | BQ1B045 ${ }^{\text {- }}$ |  | HB1B045 |  |
| 50 | BQ1B050 |  | BQ1B050H |  | HB1B050 |  |
| 60 | BQ1B060 |  | BQ18060- |  | HB1B060 |  |
| 70 | BQ1B070 |  | BQ1B070-․ |  | HB1B070 |  |

2-Pole Plug-In (Common-Trip 120/240V AC ) ${ }^{\circ}$

| 10 | BQ2B010 |  | - |  | - |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | BQ2B015 |  | BQ2B015H |  | HB2B015 |  |
| 20 | BQ2B020 |  | BQ2B020H |  | HB2B020 |  |
| 25 | BQ2B025 |  | BQ2B025 - |  | HB2B025 |  |
| 30 | BQ2B030 |  | BQ2B030H |  | HB2B030 |  |
| 35 | BQ2B035 |  | BQ2B035 - |  | HB2B035 |  |
| 40 | BQ2B040 |  | BQ2B040H |  | HB2B040 |  |
| 45 | BQ2B045 |  | BQ2B045 ${ }^{\text {- }}$ |  | HB2B0451 |  |
| 50 | BQ2B050 |  | BQ2B050H |  | HB2B050 |  |
| 60 | BQ2B060 |  | BQ2B060H |  | HB2B060 |  |
| 70 | BQ2B070 |  | BQ2B070-島 |  | HB2B070 |  |
| 80 | BQ2B080 |  | BQ2B080H |  | HB2B080 |  |
| 90 | BQ2B090 |  | BQ2B090H |  | HB2B090 |  |
| 100 | BQ2B100 |  | BQ2B100H |  | HB2B100 |  |
| 110 125 | BQ2B110 BQ2B125 |  | $\begin{aligned} & \text { BQ2B110H } \\ & \text { BQ2B125H } \end{aligned}$ |  | $\begin{aligned} & \text { HB2B110 } \\ & \text { HB2B125 } \end{aligned}$ |  |

2-Pole Plug-In (Common-Trip 240V AC) ${ }^{\text {(10) }(6)}$

| 15 | BQ2H015 |  | - | - | - | - |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 20 | BQ2H020 | - | - | - |  |  |
| 30 | BQ2H030 |  | - | - | - |  |
| 40 | BQ2H040 |  | - | - | - |  |
| 50 | BQ2H050 |  | - | - | - |  |
| 60 | BQ2H060 | BQ2H070 | - | - | - | - |
| 70 | BQ2H080 | - | - | - | - |  |
| 80 | BQ2H090 |  | - | - | - | - |
| 90 | BQ2H100 |  | - | - | - | - |
| 100 |  | - | - | - | - |  |

## 3-Pole Plug-In (Common-Trip 240V AC) ${ }^{\text {DCD }}$



MP-T / MP-HT / MP-MT Accessories

| Description | Catalog Number | Field/ Factory Installed | List Price \$ |
| :--- | :--- | :--- | :--- |
| 120V Shunt Trip | add suffix...00S01 | Factory |  |
| 24V Shunt Trip | add suffix...00S07 | Factory |  |
| 120V Auxiliary Switch | add suffix...01 |  |  |
| (2) | Factory |  |  |
| 1-Pole Padlocking Device | ECPLD1 | Field |  |
| 2-Pole Padlocking Device | ECPLD2 | Field |  |
| 3-Pole Padlocking Device | ECQLD3 | Field |  |
| Handle Block | ECQL1 | Field |  |

Factory Modifications

| Description | Catalog Number | List Price \$ |
| :---: | :---: | :---: |
| Ring Terminal | add suffix...C |  |
| Line Side Lugs | add suffix...L |  |
| Quick Connect Lug | add suffix...QX |  |
| 400 Hz Calibration | add suffix... ${ }^{(8)}$ |  |
| 415 V 50 Hz Calibration | add suffix...E ${ }^{\text {(10) }}$ |  |
| Marine $50^{\circ} \mathrm{C}$ Ambient Calibration | add suffix.... ${ }^{(8)}$ |  |
| Fungus Proofing | add suffix...F |  |
|  |  | order. Allow 2-3 delivery |

(1) UL Listed for use with $60 / 75^{\circ}$ wire through 125 amps ,

HACR rated. 120 V AC Fluorescent Lighting.
(2) 1 A and 1 B contacts.
(2) 1A and 1B contacts.
(3) UL Listed for use on 3 phase grounded " $B$ " systems -

Type HJ D6-A, HJ XD6-A(2)(4)

| 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 600 V AC, 250 V DC (3 Pole Width)

| 200 | HJ D62B200■ |  | J D62T200■ |
| :---: | :---: | :---: | :---: |
| 225 | HJ D62B225 |  | J D62T225 |
| 250 | HJ D62B250 | HJ D62F400■ | J D62T250■ |
| 300 350 | HJ D628300■ | Hj D62F400 | ${ }^{\text {J D62T300@ }}$ |
| 400 | H) D62B400■ |  | J D62T400 |

3-Pole 600 V AC, $500 \mathrm{~V} \mathrm{DC}^{(1)(2)(5)}$

| 200 | HJ D63B200 |  |  |  | J D63T200 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 225 | HJ D638225 |  |  |  | J D63225 |  |
| 250 | HJ D63250 |  | HJ D63F400 |  | J D632250 |  |
| 300 | HJ D63B300 |  |  |  | J D63T300 |  |
| 350 | HJ D63350 |  |  |  | J D63350 |  |
| 400 | HJ D63B400 |  |  |  |  |  |


| Type HHJ D6, HHJ XD6(24(6) <br> 2-Pole 600 V AC (3 Pole Width) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 200 | HHJ D62B200! |  | J62T2000 |  |
| 225 | HHJ D628225! |  | j062T225 |  |
| 250 | HHJ D6282500 |  | J $\mathrm{D62272500}$ |  |
| 300 350 | HHJ D62B300a | HHJ D62F400a | J J6273000 |  |
| 350 400 | HHJ D628350I |  | ${ }^{3} \mathrm{~J} 6273500$ |  |
| 400 | HHJ D628400a |  | J D627400 |  |
| 3-Pole 600VAC |  |  |  |  |
| 200 | HHJ D638200 |  | JD63T200 |  |
| 225 | HHJ D638225 |  | jD637225 |  |
| 250 | HHJ D638250 |  | JD63T250 |  |
| 300 350 | HHU D6383300 | HHJ D63F400 | JD637300 |  |
| 350 | HHJ D638350 |  | ${ }^{\text {J D63T350 }}$ |  |
| 400 | HHJ D638400 |  | j D63T400 |  |

Type CJ D6-A (5) 6

## Fuseless Current Limiting

Red Label
Non-Interchangeable Trip (Assembled Circuit Breakers Without Lugs)

| Continuous Current Rating <br> @ $40^{\circ} \mathrm{C}$ | 2-Pole <br> 600V AC/250V DC | 3-Pole |  |
| :---: | :---: | :---: | :---: |
|  |  | 600V AC/500V DC |  |
|  |  | Catalog Number | List Price \$ |
| 200 |  | CJ D63B200■ |  |
| 225 |  | CJ D63B225吅 |  |
| 250 | For 2-pole application | CJ D63B250■ |  |
| 300 | use outside poles of | CJ D63B300 |  |
| 350 | 3-pole circuit breaker | CJ D63B350■ |  |
| 400 |  | CJ D63B400 |  |

For inches / millimeters conversion,
see Application Data section.

- Built to order. Allow 2-3 weeks for delivery.

2 -pole units available in 3 -pole construction.
(1) 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.
(2) For non-interchangeable 3-pole HJ D6 or HHJ D6 type circuit breaker change the prefix identifier to HJ XD6 or HHJ XD6. Price equals price of frame plus price of trip, e.g. price of HJ XD63B400 equals price of HJ D63F400 plus price of J D63T400. Order lugs separately.


Figure 1
Figure 2
Dimensions (in inches)

| Breaker <br> Type | w | L | D | To <br> Handle <br> D1 |
| :--- | :--- | :--- | :--- | :--- |
| Figure 1 <br> J XD2-A, J XD6-A, J D6-A <br> HJ D6-A, HJ XD6-A, HHJ D6, <br> HJ D6, HJ XD6, HHJ XD6, <br> J XD6-ETI, SJ D6, SHJ D6 | 7.5 | 11 | 4 | 5.44 |
| Figure 2 <br> CJ D6, CJ D6-ETI, SCJ D6 | 7.5 | 17.86 | 4 | 5.44 |

Enclosures (Except SCJ D6)

| Type | Catalog <br> Number | List <br> Price \$ |
| :--- | :--- | :--- |
| 1 | J 6N1 |  |
| $3 R$ | J 6N3R |  |
| 12 | J 6N12 |  |
| $4 \mathrm{LD6SS4}$ |  |  |
| 7,9 (200-250A) | EC4 |  |
| 7,9 (300-400A) | EE |  |
| Neutral | W60992 |  |

Shipping Weights

| Number of <br> Poles | Number per <br> Carton | Shiping <br> Weight (lbs.) |
| :--- | :--- | :--- |
| J XD2, J XD6, J D6, HJ D6, HHJ D6 |  |  |
| Assembled Breaker (less terminals) |  |  |
| 2 | 1 | 17.5 |
| 3 | 1 | 19.5 |
| J D6, HJ D6, HHJ D6 Frame Only |  |  |
| 2 | 1 | 14 |
| 3 | 1 | 15.5 |
| J D6 Trip Unit Only |  |  |
| 2 | 1 | 3.5 |
| 3 | 1 | 4 |
| C D6 Complete Assembled Breaker |  |  |
| (less terminals) |  |  |
| 2 | 1 | 29.5 |
| 3 | 1 | 31.5 |

(3) XD6-ETI, CJ D6-ETI see page17/52 for ordering information. (4) Type HJ XD6, HHJ XD6 Circuit Breakers are UL listed for reverse fed applications.
(3) CE applies to non-interchangeable type HJ XD6-A only. (6) HACR rated.

