250A 3VA52 Breakers in P3 Lighting Panels
Twin Mounted Branch: Nose-to-Nose
Available in COMPAS for Configuration April 2018

P3 Lighting Panelboard Features:
- 600A max main breaker or 800A max main lug only
- Up to 45" unit space available
- **NEW** Up to six large frame breakers in unit space – total of 225A QR & 250A 3VA52 Breakers (only 6" of unit space for each twin mount kit)
- Branch area can also have various 100-125A frame breakers: BL/BQD/GB/GB2/ED
- Subfeed space can include one 400A JD frame or two 250A FD frame breakers in the same panel
- Small footprint: 24” wide x 7.75” deep (56-80”H)

3VA52 Breaker Features:
- 480V Delta rated up to 100kA (600V to 35kA)
- **250A in unit space for first time in P3**
- TM230 Thermal Magnetic Trip included (TMTU)
- Field-replaceable internal accessories that are shared with entire line of 3VA products
- Easily configured in COMPAS with all variations available in a P3 Lighting Panelboard

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P3 Main Space can include:
Main Lugs: 250A, 400A, 600A or 800A
===> also Subfeed Lugs: 250A or 400A

Main Breaker Types:
250A max. FD series (horizontal mount)
400A max. JD series (vertical mount)
600A max. LD series (vertical mount)

Future 3VA offering in development:
- 250A max. 3VA62 (ETU) (horizontal mount)
- 400A max. 3VA63 (ETU) (vertical mount)
- 600A max. 3VA64 ETU (vertical mount)
(ETU = Electronic Trip Unit)

P3 Branch Breakers - Large Frame (6 max.)
a) 225A max QR series
b) 250A max 3VA52 Series (New FY18)
   (total 225A/250A frame, limit six per panel)

New 3VA52 offering has many field installable accessories available, including strap kits.

Future 3VA offering in development
- 250A max 3VA62/3VA61 ETU single mount

P3 Branch Breakers - Small Frame
c) 100A max BL series
d) 100A max BQD series
e) 125A max ED series (480V delta capable)
f) 125A max xGB series
g) 125A max GB2 series (480V delta capable)

Future 3VA offering in development
- 125A max. 3VA TMTU (480V delta capable)

P3 Subfeed Space offering:
Feed-thru lugs:
a) 225A/250A, 400A, 600A or 800A
b) Surge Protection Devices (SPD)
c) Subfeed Breakers:
   - 250A max. FD vertical twin mount
   - 400A max. JD vertical single mount

Future 3VA offering in development
- 250A max. 3VA62 ETU (vertical twin mount)
- 400A max. 3VA63 ETU (horizontal mount)
3VA52 series breakers are Thermal Magnetic Trip (TMTU) type

- The TM230 adjustable trip is standard for factory-installed configurations. (See 3VA literature for other trip options)
- Amp ratings available: 100, 110, 125, 150, 175, 200, 225, 250
  - "xx" is Amp code for catalog number: see below (10, 11, 12, 15, 17, 20, 22, 25)
- Breaker number format: 3-pole (-xEC31-)
  (AL connector kit 3VA9233-0JB12 is not included in this number below; CU is also available)
  - 3VA52xx-5EC31-0AA0 for UL type MFAS 480V delta @ 35kA (no lugs)
  - 3VA52xx-6EC31-0AA0 for UL type HFAS 480V delta @ 65kA (no lugs)
  - 3VA52xx-7EC31-0AA0 for UL type CFAS 480V delta @ 100kA (no lugs)
- Breaker number format: 2-pole in a 3-pole frame (-xEC61-)
  - 3VA52xx-5EC61-0AA0 for UL type MFAS 480V delta @ 35kA (no lugs)
  - 3VA52xx-6EC61-0AA0 for UL type HFAS 480V delta @ 65kA (no lugs)
  - 3VA52xx-7EC61-0AA0 for UL type CFAS 480V delta @ 100kA (no lugs)

3VA Series Accessories

- There are four positions on each side of the trip handle of the 3VA52 breaker.
- Accessories can be 1, 2 or 3 positions wide and fit in specific locations as shown on charts and on the inside cover of each breaker.

Accessory types:
3VA breaker auxiliary releases allow remote electrical tripping of the circuit breaker
- STL - Shunt Trip Left
- STF - Shunt Trip Flexible
- UVR - Undervoltage Release Trip
- UNI - Universal Release (Shunt Trip and an Undervoltage Release are Combined)

All auxiliary and alarm switches for 3VA breakers belong to an integrated range of accessories
- AUX_HQ / AUX_HP - Auxiliary switches
- LCS_HQ / LCS_HP - Leading changeover switches
- TAS_HQ / TAS_HP - Trip alarm switches
- EAS_HQ / EAS_HP - Electrical alarm switches
  - 3VA auxiliary and alarm switches have standard (HQ) and high capacity (HP) types, as well as “electronic” versions.
  Ex: AUX_HQ_el

Padlock accessory will be available in a future release – date TBD.

Color Coding Of Accessories

A color coding system has been used to clearly identify the specific functions of individual accessories.
A. COMPAS configurations that need more than two 250A branch breakers will not be pushed to a P4 configuration.
   - P3 Panels can have a maximum of six 225A QR and 250A 3VA52 breakers.
   - The sub-feed space remains available for feed-thru lugs, sub-feed breakers or Surge Protection Devices.

B. P3 configurations have a smaller footprint than P4 Panelboards, saving space in electrical rooms
   - P3: 24” width, 7.75” depth
   - P4: 32” width, 10” depth

C. 480V Delta systems with 3VA52 available in a P3 will allow much more flexibility, especially when paired with the new 125A-frame GB2 series branch breakers (or other breaker types as needed).

D. P3 250A 3VA52 twin-mount kits only use 6” of unit space for each pair of breakers.
   (Field Strap kit Catalog No. BBKVA52P3T)
   - (Hardware kit required per breaker Catalog No. BBKVA52P3HW)
   - Sub-feed space with two 250A FDs requires up to 24” of box height – a savings of 12-18” depending on the configuration.
   - The sub-feed space remains available for feed-thru lugs, sub-feed breakers or Surge Protection Devices even with six 225-250A frame breakers installed in unit space.

E. The new 3VA family of breakers share most of the internal family of accessories throughout the entire range of breaker frames (125-800A and above). This reduces inventory at distributors, and contractors will have fewer parts to keep track of.

3VA accessories install easily.
- Special hardware kit for P3 Twin Mount aligns screw for easy installation.