

250A 3VA52 Breakers in P3 Lighting Panels

Twin Mounted Branch: Nose-to-Nose
Available in COMPAS for Configuration April 2018



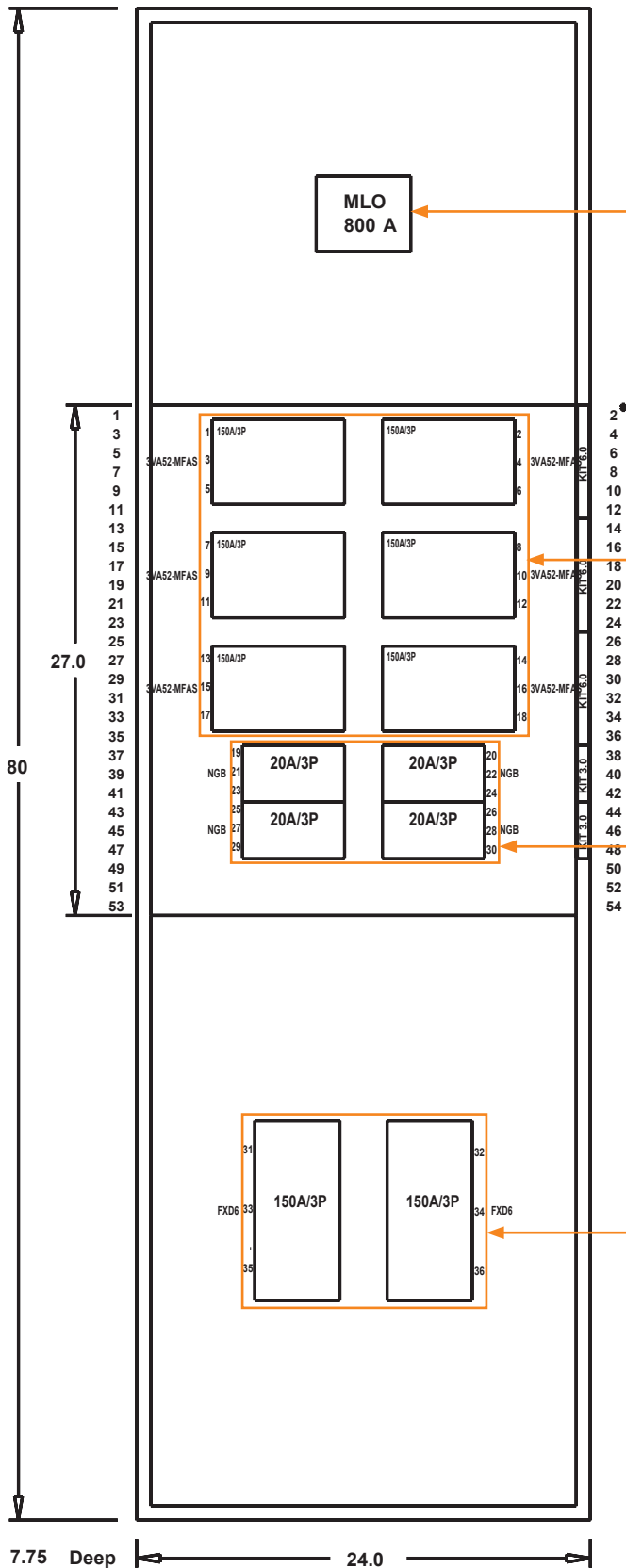
P3 Lighting Panelboard Features:

- 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

P3 Lighting Panel – Feature Rich Configurations Available



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 250A TMTU – Feature Rich Configurations Available

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

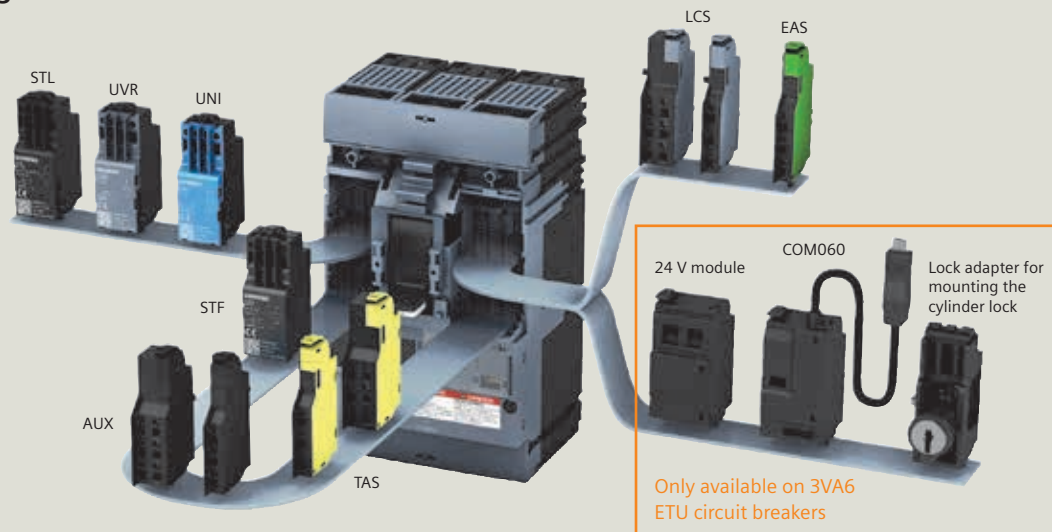
- STL - Shunt Trip Left
- STF - Shunt Trip Flexible
- UVR - Undervoltage Release Trip
- UNI - Universal Release (Shunt Trip and an Undervoltage Release are Combined)

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.

P3 benefits with new 3VA52 250A twin mount option



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

- 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.

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