TO: Ag Mechanics Team Coaches

FROM: Ag Mech Curricular Code Committee

RE: Electrical Board Requirements

As per the minutes of the Curricular Code Meeting held last June during the CATA Summer Conference, a committee was appointed (Darrell Hirschler, Tom Boyes, Toby Sheehan, Mike Spiess, Ryan Patterson, Dick Piersma, and Tim Reid) to do the following:

- 1. Make the needed changes to the Tool ID section of the contest.
- 2. Determine the model # of the load center and breakers to use on the official electrical board used in the contest.

Here is the information regarding the Electrical Boards:

I. Option 1

- 1. Purchase the needed load centers and breakers through the Home Depot website using the following links:
 - i. The SEP: http://www.homedepot.com/p/Square-D-by-Schneider-Electric-Homeline-70-Amp-2-Space-4-Circuit-Indoor-Surface-Mount-Main-Lugs-Load-Center-with-Cover-HOM24L70SCP/100202333?N=bm2wZ1z0x9jo#.Ula_FVBzF8E
 - ii. The Quad-breaker: http://www.homedepot.com/p/Square-D-by-Schneider-Electric-Homeline-2-15-Amp-Single-Pole-1-20-Amp-Two-Pole-Quad-Circuit-Breaker-HOMT1515220CP/100150477?N=bm16Z1z0x9jo#.Ula_vVBzF8E
- 2. The load center is currently priced at \$14.34 and is manufactured by Square D for the Home Depot "Homeline" brand. The breaker is priced at \$17.43 and is also made by Square D.
- 3. You can order these and have them shipped to your nearest Home Depot store for free, or you can have them shipped to home or school for free if your order is over \$45

II. Option 2

- 1. We can purchase a large quantity (150-200) for the following prices:
 - i. Eaton BQC2202115 Quadplex Breaker (15 amp single pole-outer, and 20 amp center common trip) for \$14.59 each.
 - ii. Eaton BR24L70SGP Load Center for \$9.09 each.
- 2. If enough of you are interested, Dick Piersma will purchase these and then we will have to figure out a way to distribute them to the various coaches.
- 3. This option would be good for those coaches that are fairly close to Hilmar and who want to order 10 or more units (saves about \$8 per board)
- 4. Let Dick Piersma know how many of these you want by October 31, 2013. Contact him at dwpiersma@att.net or 209-985-6556.

III. Option III

 Some of you may have a local electrician that may be willing to donate the needed equipment to you. If that is the case, the committee would like the model to be as similar in physical size and amperage capacity to those listed above as possible. The breaker should have the capacity to wire two independent 120 V 15 amp circuits, and one 240 V 20 amp circuit.





Curricular Code Committee Minutes (Must be typed)

Contest: Ag Mechanics

Chairperson: <u>Darrell Hirschler</u>

Secretary: Toby Sheehan, Daniel Fishman, Dick Piersma

Action:

Call to order by Darrell Hirschler at 8:05 AM

- 1. Proposal by Chris McKenna to increase the minimum number of qualifying contests teams must go to from 3 to 4 contests was not passed.
- 2. Proposals from Mike Spiess:
 - a. Tool ID changes refered to a committee made up of Darrell Hirschler, Tom Boyes, Toby Sheehan, Mike Spiess, Ryan Patterson, Dick Piersma, and Tim Reid to make needed changes. Motion passed, VV.
 - b. All Tool ID additions proposed were approved by VV.
 - c. Plumbing reference proposal was accepted.
 - d. Surveying reference proposal was accepted.
 - e. Proposal 1.1 prewiring the ground wires to boxes only was approved.
 - f. Proposal 1.2 allow source to come in from any location was approved.
 - g. Proposal 1.3 withdrawn.
 - h. Proposal 1.4 approved.
 - i. Proposal 1.5 allowed contestants to have pigtails and NM cable not longer than 10" in their box.
 - j. Proposal 1.6 not approved.
 - k. Proposal 2 not approved.
- 3. Proposals from Dick Piersma:
 - a. Proposal #3 NEC Proposal was withdrawn.
 - b. Proposal #4 allow source to come in from any location was approved.
 - c. Proposal #2 approved (model # of box TBD by Tool ID Committee)
 - d. Proposal #1 Rotation schedule Option 2 approved.

Note: Request that the Ag Mechanics Contest be opened in 2014 for review of the electrical skills rotation only.

Adjourned at 9:54 AM

Respectfully submitted,

Toby Sheehan, Daniel Fishman, Dick Piersma, Larry Dinis

Power Distribution Load Centers / Panelboard... Aluminum Buss Load Center... 1-Phase Main Lug Home

Eaton BR24L70SGP 70A, 120/240V, 1P, 2/4, ML Loadcenter, NEMA 1

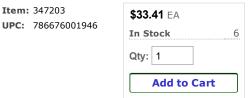
Item: 347203

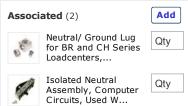


Cat: BR24L70SGP Mfg: Eaton (0) Write a review

What's your trade slang? ②

Catalog Page





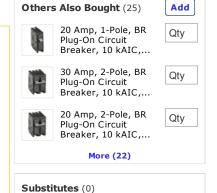
Reviews (0) **Details** 70 AMP, 120/240V AC, 1-Phase, Main Lug Loadcenter, 2-Space, 4-Pole, Aluminum Bus, Cover: Surface with No Door, NEMA 1- Indoor. Includes: GBK5 Ground Bar. **Platt Cat:** CUTBR24L70SGP Volts AC: 120, 240 Platt Item: 347203 **NEMA Rating:** 1 Cutler-Hammer, Eaton, Mfg:

Westinghouse UPC: 786676001946 Category: 1-Phase Main Lug

Familystyle: BR Mounting: Surface 70 Amps:

Circuits: 4 Phase: 1 Type: Main Lug, Aluminum Buss Spaces:

- Category: Power Distribution > Load Centers / Panelboard... > Aluminum Buss Load Center... > 1-Phase Main Lug
- Products related to BR24L70SGP 70A, 120/240V, 1P, 2/4, ML Loadcenter, NEMA 1 or visit the Eaton site.
- For help with 70A, 120/240V, 1P, 2/4, ML Loadcenter, NEMA 1 from Eaton, call Platt at 800-257-5288 from 4a - 8p (pst) 7 days.
- Click "Add to Cart" to buy Eaton BR24L70SGP 70A, 120/240V, 1P, 2/4, ML Loadcenter, NEMA 1.
- Also known as: 786676001946, CUTBR24L70SGP, Eaton, BR24L70SGP, 1-Phase Main Lug, Aluminum Buss Load Centers, Load Centers / Panelboards, Power Distribution, Cutler-Hammer, Westinghouse



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r 関 Cart

Home Power Distribution Circuit Breakers Circuit Breakers - Reside... Quadplex Circuit Breakers

Eaton BQC2202115 15/20A, 120/240V, 10 kAIC, CTL Quad CB

Item: 354629

UPC: 786676371971



Cat: BQC2202115

Mfg: Eaton

(0) Write a review

What's your trade slang?

Catalog Page



Associated (5)

Handle Lock,
Padlockable, Locks
handles of 1, 2 & 3-...

Handle Tie. Used for
joining (2)
Independent Outside...

Handle Tie. Used for
joining (2) Adjacent
Outside Po...

Qty

More (2)

Details

Reviews (0)

CTL Quadplex Breaker with Rejection Tab, 2-Pole and 1-Pole, 10 kAIC, (2) 15 Amp 1-Pole Outer and 2-Pole 20 Amp Center Common Trip, Requires (2) 1-inch spaces, Wire Size #14-4, 120/240 VAC. ***For BR Series Loadcenters***

Platt Cat: CUTBQC2202115

Platt Item: 354629

Mfg: Cutler-Hammer, Eaton, Westinghouse

UPC: 786676371971

Category: Quadplex Circuit Breakers

Familystyle: BR

Mounting: Plug-On

 Amps:
 15, 20

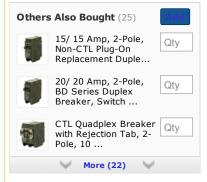
 Volts AC:
 120, 240

 Poles:
 4

 Type:
 Miniature, Quadplex

 Interrupt Rating AC:
 10000

- Category: Power Distribution > Circuit Breakers > Circuit Breakers Reside... > Quadplex Circuit Breakers
- $\bullet \ \ \textbf{Products related to} \ \ \mathsf{BQC2202115} \ \ \mathsf{15/20A}, \ \ \mathsf{120/240V}, \ \ \mathsf{10} \ \ \mathsf{kAIC}, \ \mathsf{CTL} \ \mathsf{Quad} \ \ \mathsf{CB} \ \mathsf{or} \ \mathsf{visit} \ \mathsf{the} \ \mathsf{Eaton} \ \mathsf{site}.$
- For help with 15/20A, 120/240V, 10 kAIC, CTL Quad CB from Eaton, call Platt at 800-257-5288 from 4a 8p (pst) 7 days.
- Click "Add to Cart" to buy Eaton BQC2202115 15/20A, 120/240V, 10 kAIC, CTL Quad CB.
- Also known as: 786676371971, CUTBQC2202115, Eaton, BQC2202115, Quadplex Circuit Breakers, Circuit Breakers Residential, Circuit Breakers, Power Distribution, Cutler-Hammer, Westinghouse



Substitutes (0)

