

6390301 ELECTRICAL POWER SERVICE ASSEMBLIES  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Ananth Prasad  
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(850) 942-1405

Comments: (7/25/22, Internal)

639-4.7 – steps 2 and 3 should be swapped. You should verify grounding/bonding prior to energizing.

Response:

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Ray Marlin  
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386-943-5318

Comments: (8/4/22, Industry)

The 639 Electrical Power Service spec was originally just for Traffic Signals/Traffic Control Devices. These type installations do not require transformers or splicing of electrical service wire. Please make it perfectly clear that transformers should never be installed for a traffic signal power service and splicing of electrical service wire at a traffic signal is not acceptable. Electrical service wire shall be continuous from the point of service to the power service meter can/disconnect. These changes should only be allowed in ITS/limited access applications.

Thanks,

Ray

Response:

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Matt Webb  
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850-330-1206

Comments: (8/30/22, Industry)

District Three has reviewed the subject Industry Review and have the following to offer at this time. Should you have any questions, please contact Matt Webb at 850-330-1381 or [matt.webb@dot.state.fl.us](mailto:matt.webb@dot.state.fl.us).

See attachment Comments have been made highlighted in yellow. These comments was submitted by Russell Allen in Traffic Ops.

**639-3.7.1 Enclosure:** Use an enclosure conforming to NEMA Standards for Type 3R, made of galvanized steel, aluminum, stainless steel or other materials approved by the Engineer.

made of "hot-dip galvanized" steel, aluminum...

**639-3.7.2 Electrical Rating:** Transformer electrical ratings may range from 3 KVA to more than 150 KVA, 120V to 600 V, single phase or three phase, as shown in the plans.

**639-3.7.3 Temperature classifications:** Transformers rated less than 15 KVA shall utilize Class 180 or 185 insulation systems, with a 115°C or lower winding temperature rise. Transformers rated 15 KVA and greater shall utilize Class 220 insulation systems, with a 150°C or lower winding temperature rise. The transformer shall utilize an insulation system that has been properly temperature classified in accordance with NEMA ST-20.

Sound rating table shows a max. transformer rating of 300 KVA. Suggest updating language to: "3 KVA to no more than 300 KVA"

Add "primary or secondary", as shown in the plans.

Response:

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