

6390301 ELECTRICAL POWER SERVICE ASSEMBLIES
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Ananth Prasad
aprasad@ftba.com
(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: Agree. Incorporated edits as suggested.

Ray Marlin
ray.marlin@dot.state.fl.us
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: Added the following statement in 639-4.1 to clarify 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:

“Do not use transformers or spliced electrical wire on a traffic signal power service.”

Matt Webb
matt.webb@dot.state.fl.us
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.

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: Incorporated edits as suggested.
