



SWITCHGEAR CT/ VT CONFIGURATIONS:

VOLTAGE	PHASE, WIRE	# OF CT'S	# OF VT'S	APPLICATION TABLE (A/T)	WIRING DIAGRAM	VT MAKE & MODEL (SEE A/T)	SWITCHGEAR BUS ≤1200A	SWITCHGEAR BUS >1200A≤3200A		SWITCHGEAR BUS >3200A≤4000A
							≤1200A MAX LOAD	≤1600A MAX LOAD	>1600A MAX LOAD	>3200A MAX LOAD
120/208V	3PH,4W	3	0	RM8-101-0500	RM8-201-0500	RITZ DVE-6 OR GE PTM-0	(3.06" ID, 600:5)	(5.51" ID, 800:5)	(5.51" ID, 1500:5)	(5.51" ID, 4000:5)
OTHER THAN 120/208V	3PH,4W	3	3 OR 4	RM8-102-0500	RM8-202-0500		RITZ DCCW OR GE JAK-0S	RITZ DCEW	ARTECHE IRH-10 OR RITZ DCEW	RITZ DCEW
600V	3PH,3W	2	2 OR 3	RM8-103-0500	RM8-203-0500 (NGR)					

NOTES:

ID- INNER DIAMETER

- THIS DRAWING ILLUSTRATES A TYPICAL ARRANGEMENT AND IS TO BE PROVIDED TO THE SWITCHGEAR (SG) VENDOR PRIOR TO MANUFACTURING. SG OR SWITCHBOARD SHALL BE APPROVED TO CSA 22.2. NO. 31 OR 244, RESPECTIVELY.
- UMC FOR SUPPLY AUTHORITY USE ONLY, NO CUSTOMER OWNED EQUIPMENT PERMITTED. UMC SHALL BE SEGREGATED FROM OTHER COMPARTMENTS. FIELD MODIFICATIONS TO UMC SHALL ADHERE TO OEM REQUIREMENTS. UMC MUST BE FIELD MARKED TO INDICATE ARC FLASH AND SHOCK HAZARDS. ADDITIONAL REQUIREMENTS MAY BE FOUND ON ELECTRICAL SERVICE LAYOUT.
- CONDUIT BETWEEN UMC AND METER ENCLOSURE SHALL BE 1-1/4", HAVE NO ELBOWS WITH COVERS OR PULL BOXES AND BE NO MORE THAN 10M IN LENGTH. REFER RMG SECTION FOR METER INSTALLATION.
- METERING WIRE GOING THROUGH OTHER SG SECTIONS SHALL BE IN CONDUIT. REFER TO RM8-300-0500 FOR METER ENCLOSURE DRAWING.
- UMC SHALL HAVE A TERMINATION POINT FOR SYSTEM GROUND. IF SYSTEM NEUTRAL IS PRESENT, THE UMC SHALL HAVE A TERMINATION POINT FOR SYSTEM NEUTRAL.
- TORQUE SPECIFICATIONS FOR ALL MOUNTING HARDWARE SHALL BE DISPLAYED IN THE UMC. ALL MOUNTING HARDWARE SHALL HAVE A SOCKET HEAD. HARDWARE USED TO MOUNT THE CT'S AND VT'S SHALL BE PROVIDED BY SG VENDOR.
- MAIN SERVICE BOX RATING ≤ 1200A: FOR CT SPECIFICATIONS REFER TO RM11-306-0500/ RM11-306-0501.
- MAIN SERVICE BOX RATING >1200 ≤ 3200A: FOR CT SPECIFICATIONS REFER TO RM11-307-0500/ RM11-307-0501.
- MAIN SERVICE BOX RATING >3200 ≤ 4000A: FOR CT SPECIFICATIONS REFER TO RM11-307-0500.
- SG SPEC'D FOR CT'S NOT LISTED IN THE TABLE MAY REQUIRE AN OEM KIT TO ACCEPT HYDRO ONE DONUT/WINDOW CT MODELS. HYDRO ONE TO PROVIDE APPROVAL.
- CT'S AND BUS LINKS TO BE INSTALLED AND TORQUED TO SPECIFICATION BY ELECTRICAL CONTRACTOR. CONNECTIONS THAT REQUIRE TORQUEING SHALL HAVE A PERMANENT MARKING COMPLETED BY ELECTRICAL CONTRACTOR.
- REMOVABLE BUS LINKS REQUIRED FOR CT MAINTENANCE
- VT TYPE: FOR VT SPECIFICATIONS REFER TO RM11-310-0510/ RM11-310-0501. FOR MM DETAILS REFER TO APPLICATION TABLE (A/T).
- VT PRIMARY WIRE CONNECTIONS SHALL BE ON THE MAIN DISCONNECT SIDE OF CT'S. CT PRIMARY POLARITY MARK TOWARD SOURCE.
- SG SHALL HAVE PROVISIONS FOR A 4TH VT TO ACCOMMODATE POWER QUALITY METER.

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Scale: N.T.S.	Date: (yyyy/mm/dd) 2024/09/19	Pole ID:	

Title:
TYPICAL LV SWITCHGEAR ARRANGEMENT -
UTILITY METERING COMPARTMENT (UMC)
3 PHASE UNDER 750V

Drawing No. RM8-307-0500	Rev. No. 00
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