SIEMENS

INSTALLATION INSTRUCTIONS

250A* TP Pan Assembly

*Dependent on Enclosure and Incomer.

Safety Note

"This unit should be installed by a qualified competent person in accordance with all relevant legislation and regulations including building regulations and wiring regulations BS7671. If in doubt contact a qualified competent person"

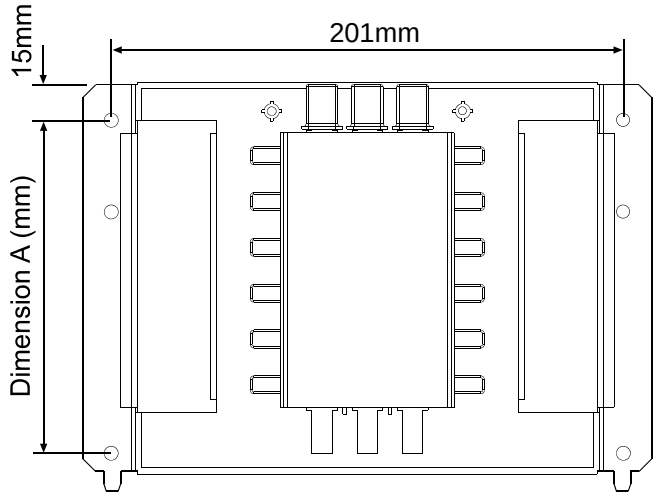
Turn off all power supplying this equipment before commencing work on or inside the distribution board.

Test with appropriately rated test equipment to ensure power is off.

Replace all devices, blanks, doors and covers before turning the power on.

To avoid swarf and other foreign objects entering the enclosure always remove gland plates to cut cable / trunking entries.

Fixing Centres



Unit	Ways	Dimension A (mm)
8GP1 940-4DA41	4	131
8GP1 940-4DA43	8	239
8GP1 940-4DA44	12	347
8GP1 940-4DA45	16	455
8GP1 940-4DA46	20	563
8GP1 940-4DA47	24	671

Available mcb pan assembly incomer variants (Cables **MUST NOT** be connected direct to busbar)

Please note the incomer kits used on the 200A DB's are not suitable for use with the mcb pan assemblies.

Suitable pan assembly incomers are as follows:

8GP1 933-0DA17	250A TP Direct Connection Incomer kit
8GP1 933-0DA20	200A TP Switch Disconnector Incomer kit
8GP1 933-0DA18	200A TP mccb Incomer kit

Temperature rise/Minimum Cubicle Size

The thermal rating assigned to the pan assembly/incomer combinations is based on temperature rise testing in IP3X enclosures as detailed in the table below:

		Dimensions (mm)		
Part No.	Description	Height	Width	Depth
8GP1 940-4DA41	4w 250A TP Pan Assembly	650	430	145
8GP1 940-4DA43	8w 250A TP Pan Assembly	815		
8GP1 940-4DA44	12w 250A TP Pan Assembly	895		
8GP1 940-4DA45	16w 250A TP Pan Assembly	975		
8GP1 940-4DA46	20w 250A TP Pan Assembly	1085		
8GP1 940-4DA47	24w 250A TP Pan Assembly	1190		

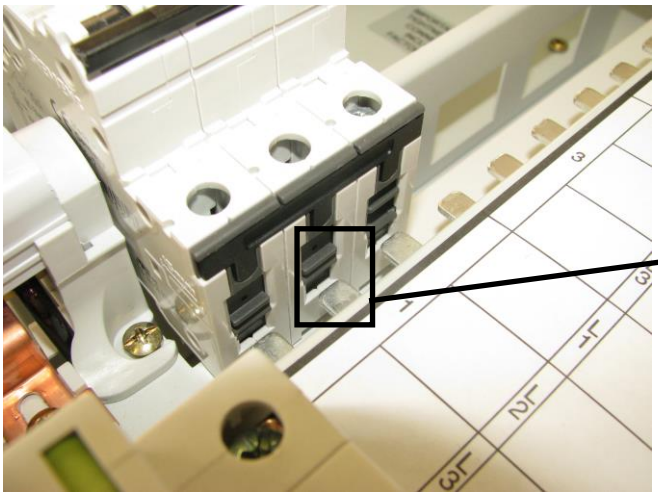
The dimensions shown above are those considered to be the minimum without exceeding the temperature rise limitations laid down in the standard.

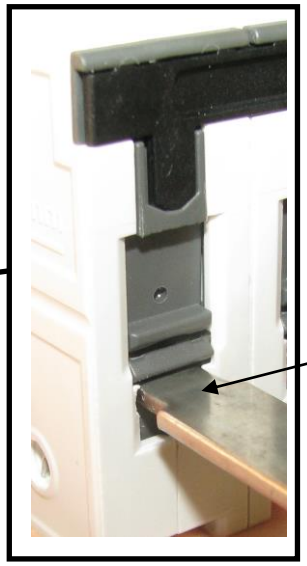
Outgoing way numbering

The outgoing ways must be identified. If the busbar assembly is not pre-numbered then the installer must number the outgoing ways. Odd numbered ways on the left of the busbar assembly way 1 being either at the top or bottom of the busbar assembly. Even numbered ways on the right of the busbar assembly ascending in the same direction as the odd numbers. Way 1 must be opposite way 2, both either at the top or the bottom of the busbar assembly.

Installation of MCBs

- Ensure supply is switched off.
- Only Siemens MCBs can be used in Siemens pan assemblies. DO NOT USE MCB'S THAT DO NOT HAVE PHASE BARRIERS.
- **Ensure that the MCB phase barriers are intact and are not damaged or removed** i.e. Terminal screws are fully shielded between phases.
- Fully slacken all MCB terminal screws.
- **Caution: The combined maximum load on two facing MCBs on a common cross link(e.g.Way 1 + Way 2) must not exceed 100A.**
- Push MCB onto appropriate busbar outgoing way – In 3 phase pan assemblies make sure that the DIN clip faces towards the busbar assembly in the centre of the board
- Fully tighten busbar connections to recommended torque marked on MCB
- **DO NOT USE POWER TOOL SCREWDRIVERS ON ELECTRICAL CONNECTIONS**





Busbar connection into lower cage, ensure cage is fully lowered before attaching to busbar

Installation of RCBOs

- Ensure supply is switched off.
- Fully slacken all RCBO busbar terminal screws.
- Push RCBO onto appropriate busbar outgoing way making sure that the DIN clip faces towards the busbar assembly.
- Fully tighten busbar connections to a recommended torque of device
- Connect RCBO Neutral lead to appropriate numbered terminal on the neutral terminal bar (supplied by others)
- Ensure both live and neutral outgoing cables are terminated on the RCBO outgoing terminals.
- Connect white functional earth lead to appropriate terminal on earth terminal bar (supplied by others)
- **DO NOT USE POWER TOOL SCREWDRIVERS ON ELECTRICAL CONNECTIONS**

Device	Max. Cable Capacity	Recommended Tightening Torque
Main Switch/ Direct connection	120mm² / 185mm²	10Nm (88lbf-in)
MCB	25mm²/35mm²	2.0Nm - 2.5Nm (18lbf-in - 22.1lbf-in)
RCBO	16mm²	

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