INTRODUCTION
This document explains how to install the ABB OVR 240-16A surge protector for in-line mains power supplies.

OVR 240-16A

1. Safety note:

Warning! Installation by person with electrotechnical expertise only.

Warning! Installation nur durch elektrotechnische Fachkraft.

Avvertenza! Fare installare solo da un elettricista qualificato.

Avertissement! Installation uniquement par des personnes qualifiées en électricité.

Except where it is installed on a supply which leaves the building, the OVR 240-16A protector should be installed close to the equipment it is protecting, either:

(a) within the system (see Figure 1) or
(b) on the fused connection (or spur unit) to the equipment

The dirty, or line side of the OVR 240-16A protector should be connected to the cable carrying the incoming transient overvoltages - this is usually the cable from the power supply. The output or clean side ensures a transient free supply to the equipment being protected.

Maximum torque is 0.5 Nm power terminals, with cable stripping length 8 mm.

Note: Do NOT use power driven screwdrivers to make connections to the OVR 240-16A protector. Hand tighten only.

3. Series connection

OVR 240-16A protectors are connected in-line (or series) with the supply to be protected (see Figure 2).

Figure 2: In-line connection for OVR 240-16A (on supplies fused at 16 A or less). Note how the OVR 240-16A protector can also be earthed from its earth stud.

3.3 Fixing methods

OVR 240-16A protectors can be:

(a) screwed to a flat surface - remove the DIN rail foot and use the centre mounting holes by the clean and line screw terminals - see Figure 3

(b) clipped onto a ‘top hat’ DIN rail - see Figure 4

(c) installed on a Combined Mounting and Earthing (CME) kit - the twin M6 earth studs on the top of the OVR 240-16A protector can be used to install it on an accessory CME kit (see Section 3.7 - Cross bonding from SPDs)

Figure 5 shows an OVR 240-16A installed on a CME 4 alongside SPDs for CCTV video and telemetry lines.

Hand tighten screws, do not use power driven screwdrivers.

3.4 Earthing

It is essential that the OVR 240-16A protector is earthed.

If the OVR 240-16A SPD is being installed on a supply without an earth conductor (eg double insulated) the SPD must be connected to the local power earth via the M6 stud(s) provided.

Use either or both of the M6 earth studs on the top of the OVR 240-16A.

... continued overleaf
3.7 Cross bonding from other SPDs
Surge protectors for telephone, signal and CCTV lines can be earthed by cross bonding them to the earth stud(s) of the OVR 240-16A. This can be achieved by installing the surge protectors together on a CME kit (see Figure 5).

The surge protector can therefore derive their earth connection via the OVR 240-16A.

3.8 Keep clean cables away from dirty cables
Clean outgoing cables should never be routed next to dirty incoming cables or dirty earth leads (or cross bonds).

This applies to lines within or external to the equipment panel.

Environment
Consider the protection of the environment!
Used electrical and electronic equipment must NOT be disposed of with domestic waste. The device contains valuable raw materials which can be recycled. Therefore, contact ABB for disposal of this equipment.

Notes