

8.3 New nominal voltage 230 V

The new Harmonization Document HD 472 S1 authorized by CENELEC on 11/4/1988 changed the National Rules in two steps until latest 1995.

Newly standardized values of nominal voltages:

1. 400 V between outer conductors in a 4-conductor 3-phase supply network (3-phase operation)
2. 230 V between outer conductor and neutral (center-) conductor
3. 230 V between the outer conductors in a 3-conductor 3-phase supply network (1-phase operation)

Change-over deadlines

Until latest 1995 all energy supplying institutes had to change their present 220/380 V networks to the new voltages of 230/400 V +6%/-10%.

Countries with networks still operating at 240/415 V should adjust their voltages to 230/400 V +10%/-6%.

At the end of the change-over period in the year 2003 the standardized voltage should be at 230/400 V +/-10%.

In order to advance harmonization in the EU and EFTA States CENELEC Memorandum Nr.14 advised all appliance manufacturers to mark their products with the new nominal voltages beginning latest 1/1/1993.

This catalog contains only part of the comprehensive line of suppression filters produced by Tyco electronics. The filters depicted here mostly evolved out of specific requirements asked for by our worldwide customer base, have constantly been improved and were within their series extended by additional current classes.

Widely accepted by our clientele they now form part of our standard products program. They are competitively priced and available at short notice.

If any mechanical or electrical EMC problem cannot be solved by any one of our standard filters customers have access to a wide variety of thoroughly tested special filters.

If any of these products still does not fit the specific needs and there is no possible compromise, the costly way of designing a customer specific filter is inevitable.

All accruing tooling costs for new enclosures as well as approvals (VDE, UL, CSA, SEV, etc.) requested by the customer including the test sample necessary for each approval amount to a cost factor which usually requires manufacture and sales of considerably large quantities.

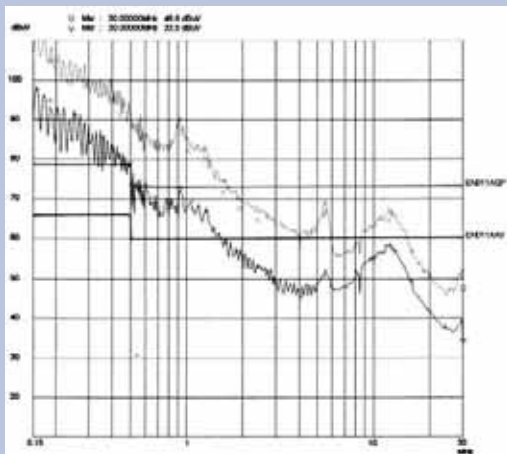
Frame orders with time schedules up to one year as well as fixed shipping volumes allowing economically produceable lot sizes are also pre-requisite.

Often only minor modifications have to be applied to standard filters. Willingness to compromise with mechanical layout by resort to existing enclosures and limiting the number of approvals to those really necessary to market the devices cause immediate cost reduction.

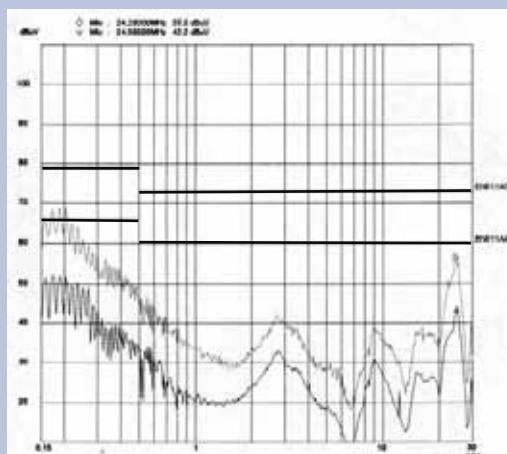
Please contact us - the commonly found solution will satisfy you.

Tyco Electronics will be happy to assist you in selecting the appropriate filter for your application. If your facility lacks time and resources all your necessary measurements can easily be quick and reliably performed by the qualified personnel in our laboratory.

Example of interference Suppression



Equipment characteristics without filtering



Equipment characteristics with the appropriate filter

