APPLICATION NOTE	AN-General-0006v101EN
Connection of input line 3 phase AC reactors to single phase supply inverters	

Inverter type	FRENIC Series (single phase supply)
Software version	All versions
Required options	AC line reactors
Related documentation	None
Author	David Bedford
Revised	Jordi Català
Approved	David Bedford
Use	Public, Web
Date	05/05/2010
Version	1.0.1
Languages	English

Introduction.

This document describes how to connect input line 3 phase AC reactors (ACRE2-XX, ACRE4-XX, ACR2-XX and ACR4-XX) to single phase supply inverters (-7 type).

The main advantage of using standard 3 phase AC reactors is that there is no need to define a special type of AC reactors for single phase supply inverters.

Procedure.

The connection of a standard 3 phase AC reactor to a single phase inverters is shown in figure 1.

It is important to highlight that only two phases (U and W) of the AC reactor are used, the third one is NOT connected.

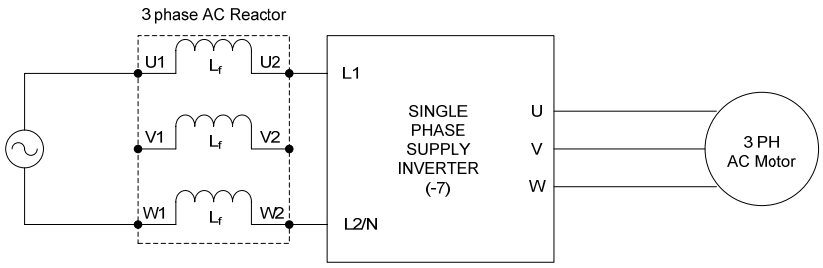

Figure 1. Connection of 3 phase AC reactor to single phase inverter.

The final input inductance resulting from this connection is two times the inductance per phase (L_f).

Document history.

Version	Changes applied	Date	Written	Checked	Approved
1.0.0	First version	28/04/2010	D.Bedford	J. Català	D.Bedford
1.0.1	Mistake corrected (W instead of V)	05/05/2010	D.Bedford	S.Ureña	D.Bedford