

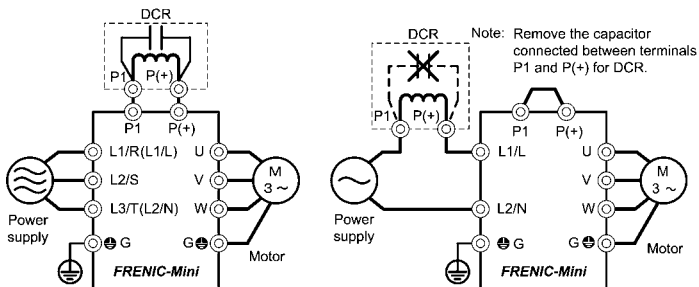
Chapter 10 APPLICATION OF DC REACTORS (DCRs)

Since the "Japanese Guideline for Suppressing Harmonics in Home and General-purpose Appliances" issued by the Ministry of International Trade and Industry (Currently the Ministry of Economy, Trade and Industry) was revised in January 2004, the general-purpose inverters have no longer been subject to the guideline. Individual inverter manufacturers have voluntarily employed harmonics suppression measures. It is recommended that DC reactors (DCRs) specified in Table 10.1 be connected to the FRENIC-Mini series of inverters.

Table 10.1 List of DC Reactors (DCRs)

Power supply voltage	Applicable motor rating (HP)	Applicable inverter type	DCR type	For connection Refer to:
Three-phase 230 V	1/8	FRNF12C1■-2U	DCR2-0.2	Figure 10.1 (1)
	1/4	FRNF25C1■-2U		
	1/2	FRNF50C1■-2U	DCR2-0.4	
	1	FRN001C1■-2U	DCR2-0.75	
	2	FRN002C1■-2U	DCR2-1.5	
	3	FRN003C1■-2U	DCR2-2.2	
Single-phase 230 V	1/8	FRNF12C1■-7U	DCR2-0.2	Figure 10.1 (1)
	1/4	FRNF25C1■-7U	DCR2-0.4	
	1/2	FRNF50C1■-7U	DCR2-0.75	
	1	FRN001C1■-7U	DCR2-1.5	
	2	FRN002C1■-7U	DCR2-2.2	
	3	FRN003C1■-7U	DCR2-3.7	
Single-phase 115 V	1/8	FRNF12C1■-6U	DCR2-0.75	Figure 10.1 (2)
	1/4	FRNF25C1■-6U	DCR2-1.5	
	1/2	FRNF50C1■-6U	DCR2-2.2	
	1	FRN001C1■-6U	DCR2-3.7	

Note 1) A box (■) in the above table replaces S or E depending on the enclosure.



(1) For three-phase 230 V or single-phase 230 V

(2) For single-phase 115 V

Figure 10.1 Connection Diagram of DC Reactor (DCR)