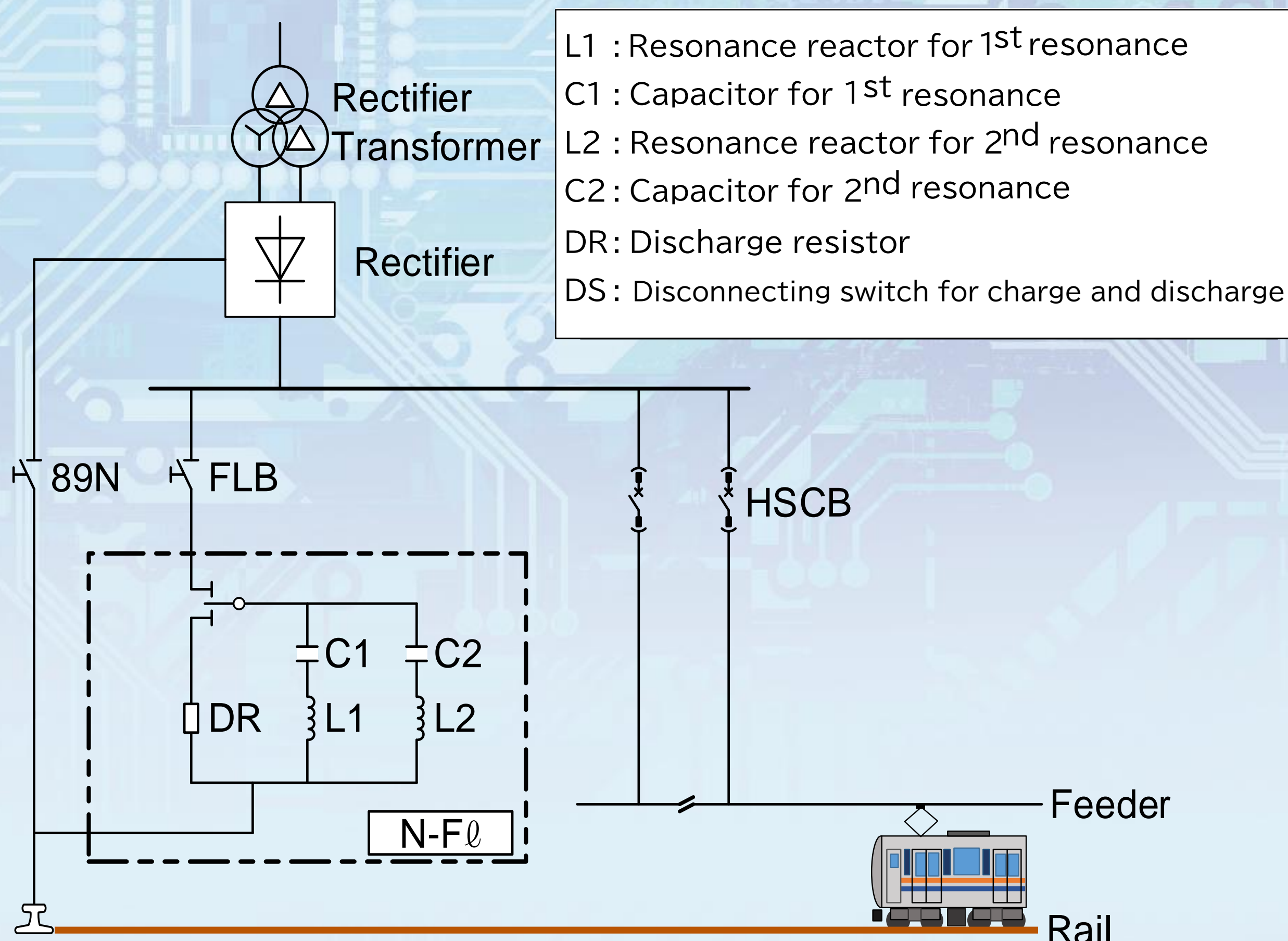


DC Filter (N-F ℓ)

This is the power filter that suppresses harmonics generated by rectifiers in DC feeding substations. Compared to the conventional filter, the new filter does not require a series reactor by increasing the rated value of the resonant circuit. As a result, it is a compact and low-cost device.



【 DC filter (N-F ℓ)】



Purpose and role of the device

In order to prevent harmonic noise caused by rectification ripple in rectifiers from spreading along the line via overhead lines, power filtering equipment has been installed in the return line of substations. The conventional power filter consists of a filter section and a series reactor, but by improving the current carrying capacity of the filter section, the series reactor can be omitted, thus realizing low cost and space saving. This device is suitable for rectifiers of 3000kW or less.

Configuration

The series resonance of the resonant reactor & capacitor absorbs harmonics generated by the rectifier. DC ground fault protective relay(64P) and DC feeding voltage measuring device(DCVT) can be installed upon request.

Low cost and Space saving

Compact and light weight because no series reactor is required.

Maintainability

All the equipment in the resonant circuit is dry self-cooled type, which makes it easy to maintain and repair.

Adaptability to installation site

According to installation environment, this filter for indoors or outdoors can be selected.



Primary circuit rated voltage		DC 1500V			
Resonance circuit	Commercial frequency	50Hz		60Hz	
	Resonance frequency	600Hz	1200Hz	720Hz	1440Hz
	Resonance reactor	0.391mH	0.391mH	0.271mH	0.271mH
	Capacitor	180 μ F	45 μ F	180 μ F	45 μ F
	Rated current	40A	12A	40A	12A
Dimensions (* For outdoor)		W:820mm *860mm D:1300mm *1400mm H:1950mm *2000mm		W:820mm *860mm D:1300mm *1400mm H:1950mm *2000mm	
Weight		Approx. 650kg		Approx. 650kg	

