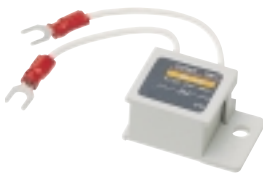


Insulation barrier unit

Applying contactors	Type	Remarks
CGC-100, 125, 150 type (100 to 150A frame)	AI-100	4 pcs required per contactor
CGC-180, 220, 300, 400 type (180 to 400A frame)	AI-180	
CGC-600, 800 type (600. 800A frame)	AI-600	

Surge absorber unit



Type of element	Applying contactors	Operation voltage	Element spec.	Type
Varistor ①	All types CGC-9 to 800 (9 to 800A frame)	AC/DC 24~48V	Varistor 120V	AS-11
		AC/DC 100~125V	Varistor 270V	AS-12
		AC/DC 200~240V	Varistor 470V	AS-13
		AC380~440V	Varistor 1000V	AS-14
CR + Varistor ②	CGC-9A to 85 (9 to 85A frame with AC coil)	AC24~48V	Varistor 120V 0.1 μ F, 100 Ω	AS-1
		AC100~125V	Varistor 270V 0.1 μ F, 100 Ω	AS-2
		AC200~240V	Varistor 470V 0.1 μ F, 100 Ω	AS-3
	CGC-9D to 85 (9 to 85D frame with DC coil)	DC24~48V	Varistor 120V 0.47 μ F, 100 Ω	AS-4
		DC100~125V	Varistor 270V 0.47 μ F, 100 Ω	AS-5
		DC200~220V	Varistor 470V 0.47 μ F, 100 Ω	AS-6

Comparison

Without surge unit	① With Varistor unit	② With CR+Varistor unit
Surge voltage, arise when the coil is off, may provoke mis-operation and damage in the circuit.	Varistor has an effect to cut down the peak voltage	Varistor has an effect to cut down the peak voltage and high frequency wave

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[AS-3](#)