



New Product Information “G6DN-CF”

- High Operating Temp. Models (105 Degrees Celsius)

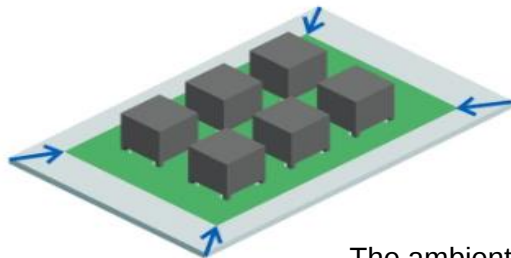
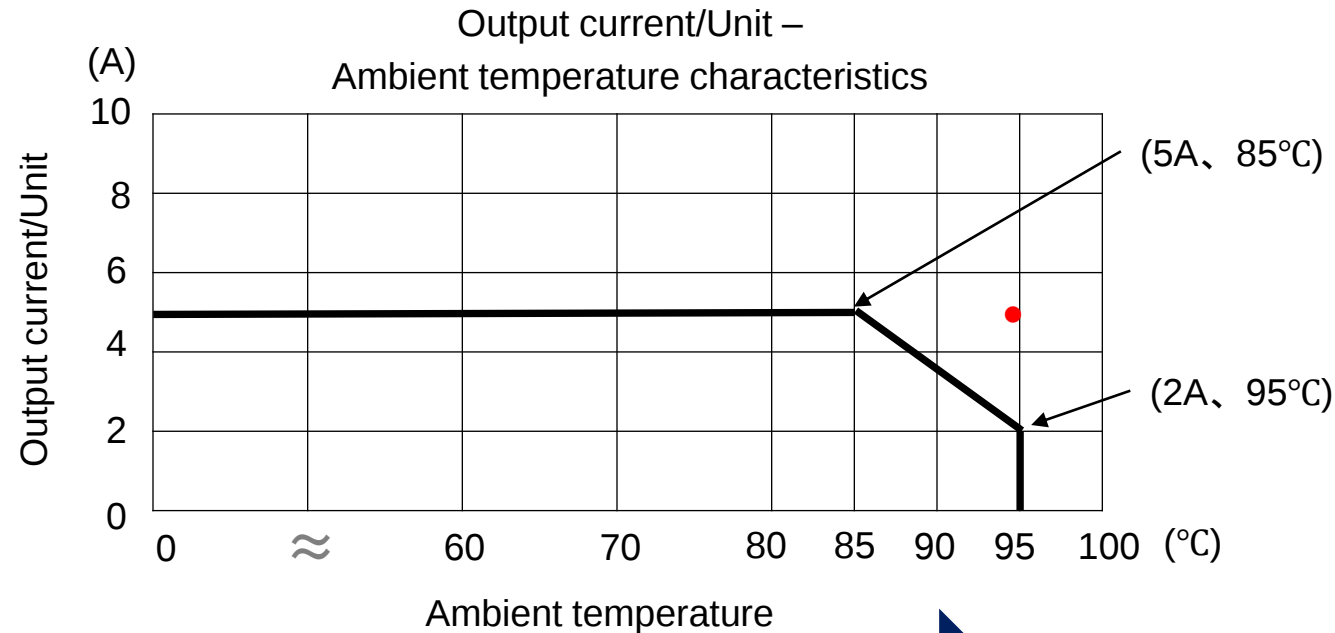


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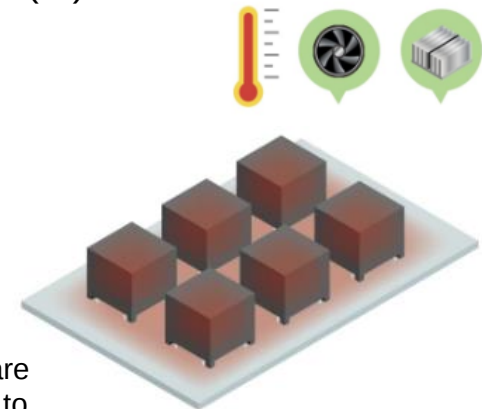
G6DN Expansion Background

- Existing G6DN models responded to rising ambient operating temperature requirements by temperature de-rating
- Miniaturization is a Factory Automation (FA) industrial trend, leading to G6DN-CF development
 - Densification of parts
 - Growing need for high-temperature components due to the rise in temperature inside the housing of end-products

Example of temperature de-rating



Need for high-temperature compatible components due to higher density of parts



The ambient temperature for use as an FA device is -40°C to 70°C, but there are cases where the actual heat generation of the parts inside the device is close to 100°C.

Main Spec and Features

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G6DN-CF type : 5A switching, 105°C slim power relay

- Line-up of high temperature types with an ambient temperature of 105°C (-CF type)
- Slim 5-mm width and miniature size. (20 × 5.08 × 12.5 mm)
- High switching capability 5 A (250 VAC and 30 VDC), and high contact reliability by crossbar-twin contact.
- Low power consumption 110 mW.



New

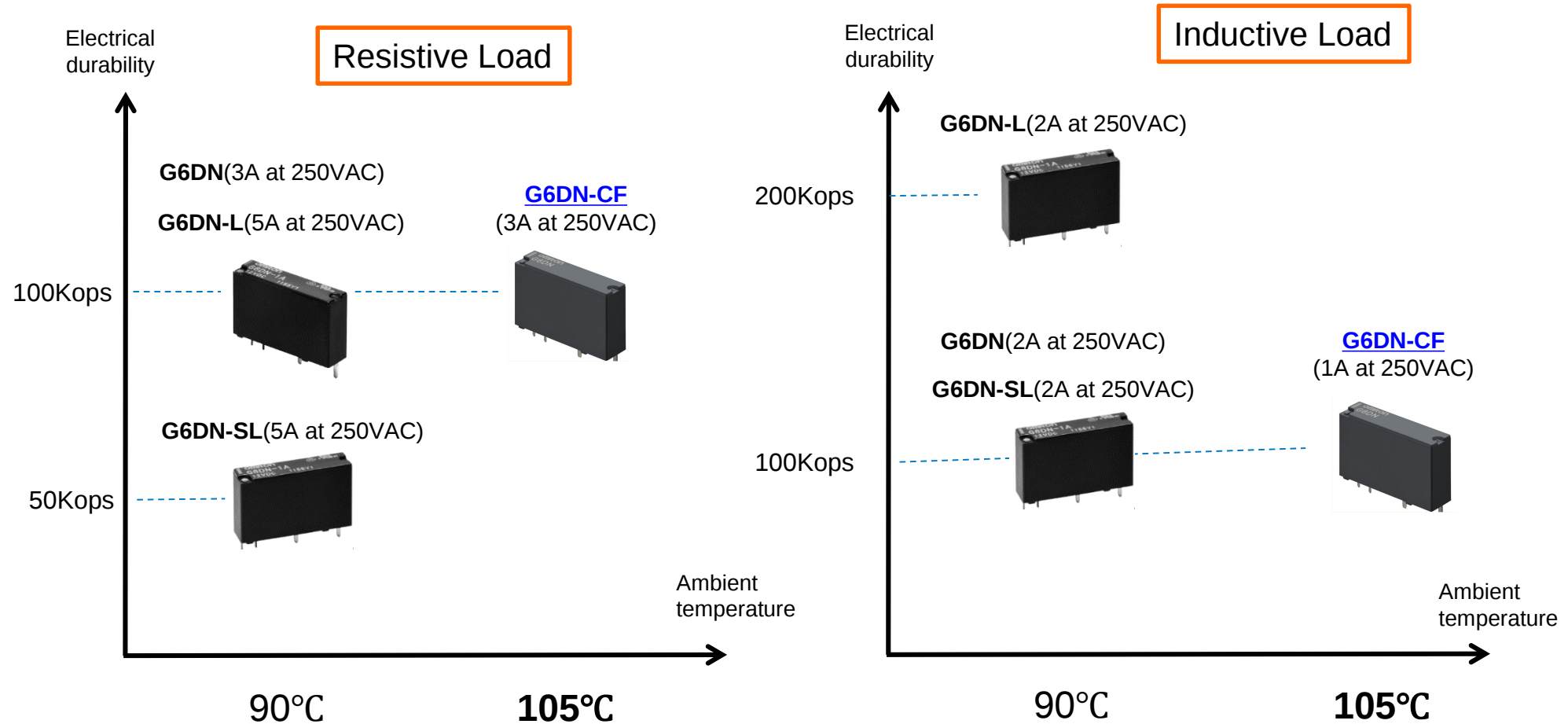


	Standard	High durability(-L)	General purpose(-SL)	High temperature(-CF)
Ambient temperature	-40°C to +90°C(with no icing or condensation)			-40°C to +105°C (with no icing or condensation)
Humidity	5% RH to 85% RH			
Coil insulation system	Class B			Class F
Contact form	SPST-NO (1a)			
Contact Type Contact material	Cross bar twin Ag-Alloy and Au plating * Au plating is applied to stationary contact.			
Power consumption	Approx. 110mW	Approx. 180mW	Approx. 110mW	
Electrical durability	●Resistive Load 100Kops min. (3 A at 250 VAC, 3 A at 30 VDC) 80Kops min. (5 A at 250 VAC, 5 A at 30 VDC) ●Inductive load 100Kops min. (2 A at 250 VAC, 2 A at 30 VDC)	●Resistive Load 100Kops min. (5 A at 250 VAC) 100Kops min. (5 A at 30 VDC) ●Inductive load 200Kops min. (2 A at 250 VAC) 200Kops min. (2 A at 30 VDC)	●Resistive Load 50Kops min. (5 A at 250 VAC) 50Kops min. (5 A at 30 VDC) ●Inductive load 100Kops min. (2 A at 250 VAC) 100Kops min. (2 A at 30 VDC)	●Resistive Load 10Kops min. (5 A at 250 VAC 105°C) 100Kops min. (3 A at 250 VAC 105°C) 100Kops min. (3 A at 30 VDC 105°C) ●Inductive load 10Kops min. (5 A at 30 VDC 105°C) 100Kops min. (1 A at 250 VAC 105°C) 100Kops min. (2 A at 30 VDC 105°C)
Approved Standards	UL/C-UL/VDE			UL/C-UL/TUV

G6DN Product Line-up



High temperature type (-CF) has been added to the conventional standard type and high durability type (-L), making it possible to cover temperatures up to 105°C.



Target Applications

FA • Others



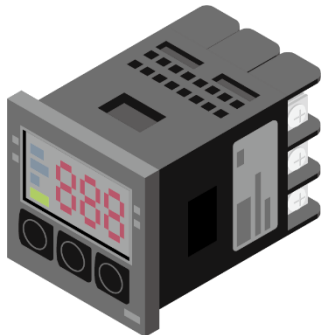
PLC



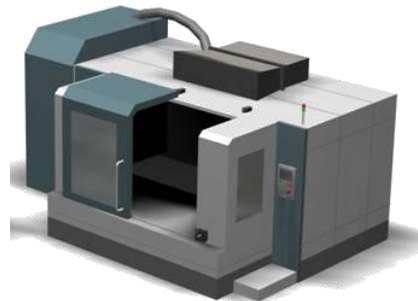
General-purpose Inverter



Robot Controller



Temperature Controller



Machine Tool



Fire/Smoke/Gas Alarm System



Thank You!