

TECHNICAL NEWS

[Issue No.] LVS-YE-0005

[Page] 1/2

[Title] About the influence of cancellation of PA/PET resins of Toyobo Co., Ltd. to our Circuit Breakers

[Date of Issue] March 2021

[Relevant Models] Low Voltage Molded Case Circuit Breakers / Earth Leakage Circuit

About our Molded Case Circuit Breakers and Earth Leakage Circuit Breakers, we are using Toyobo Co.,Ltd. which is the resin material supplier.

Now we would like to inform you that Toyobo Co., Ltd. announced that some performances of PA resin "GLAMIDE" and · PET resin "VYLOPET" which were UL certified do not meet the requirement standard, and the UL certification has been cancelled.

For details, please refer to the press release of Toyobo Co.,Ltd..

[https://ir.toyobo.co.jp/en/ir/news/news-5867627790873786828/main/0/link/press%2020210203%20\(E\).pdf](https://ir.toyobo.co.jp/en/ir/news/news-5867627790873786828/main/0/link/press%2020210203%20(E).pdf)

About the effect and the influence for our Molded Case Circuit Breakers and Earth Leakage Circuit Breakers, please find the following.

1. Affected models / parts

Series	Model names		Parts (Materials))	
WS-V	Molded Case Circuit Breakers F Style		Handles (PA resin)	
	Earth Leakage Circuit Breakers F Style			
	Earth Leakage Circuit Breakers F Style CE·CCC models			
	Motor Protection Breakers	MB		NF63-SVF
	Earth Leakage Circuit Breakers for motor protection			NV63-SVF
	UL 489 Listed Circuit Breakers F Style			NF50-SVFU
	UL 489 Listed Circuit Breakers with earth leakage protection F Style			NV50-SVFU
	Molded Case Circuit Breakers		Base (PET resin)	
	Earth Leakage Circuit Breakers			
	Earth Leakage Circuit Breakers for motor protection	MB PR		NV63-CV, NV63-SV 4~8A
DSN Switches	NV63-CV, NV63-SV 2~8A			
		DSN63-SV 4P 50A		

*Please note that specific purpose circuit breakers (Mag-Only, DC special voltage Circuit Breakers) are also affected.

*Please note that the products that were shipped after 2010 are affected.

2. Influence to our products

Performances of PA resin "GLAMIDE", PET resin "VYLOPET" which are UL certified do not meet the required standards.

So the UL94 standard's flammability grade for the affected models should be changed from V-0 to V-2.

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[Page] 2/2

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Although the flammability grade will be changed, performances and safety of the Molded Case Circuit Breakers and Earth Leakage Circuit Breakers still meet the required levels of standards such as Electrical products safety law, JIS C 8201-2, IEC 60947-2, GB/T 14048.2, UL 489 and so on.

Also, there is no concern about the safety of those products including the ones that are already shipped out.

3. Our plan for the future

About the affected products/parts that are affected, we will consider finding the alternative materials in 2022-2023 so that we can keep UL94 standard flammability grade (V-0) for the future.