



2021-03-16

## NOTICE OF PROJECT COMPLETION AND TEST CONCLUSION LETTER

Gefran SPA  
VIA SEBINA 74  
PROVAGLIO D'ISEO, BS, 25050, IT

Activity related to UL Project: 4789777082

Subject: **SCCR - Short Circuit Test - High Fault 100KA @ 600V 1PH on Industrial Control Switch: GRS-H/GRS and GQ 2020 version series.**

Dear Mr. Facchini:

The Testing Session associated with project number 4789777082, has been completed.

UL have witnessed the complete test program, conducted at the ABB Laboratories, established for your products and the table below are the details of the fuse used and of the results.

<b>SOLID STATE RELAY MODEL</b>	<b>TEST CONDITION</b>	<b>FUSE USED</b> <i>JDDZ Listed Fuse Class J</i>	<b>TEST RESULT</b>
<i>GRS-H/GRS 15/25/30/40A 600V</i>	100KA @ 600V 1PH	DFJ 40 by BUSSMANN	PASS
<i>GRS-H/GRS 50/60/75A 600V</i>	100KA @ 600V 1PH	DFJ 80 by BUSSMANN	PASS
<i>GRS-H/GRS 90/120A 600V</i>	100KA @ 600V 1PH	DFJ 125 by BUSSMANN	PASS
<i>GQ 15/25A 600V</i> <i>(version 2020)</i>	100KA @ 600V 1PH	DFJ 25 by BUSSMANN	PASS
<i>GQ 50A 600V</i> <i>(version 2020)</i>	100KA @ 600V 1PH	DFJ 50 by BUSSMANN	PASS
<i>GQ 75/90A 600V</i> <i>(version 2020)</i>	100KA @ 600V 1PH	DFJ 100 by BUSSMANN	PASS

*After the test all samples indicated above were able to function again, after the fuses replacement.*

*The fuses used on the above tests are considered representative of the all the fuses with current ratings lower than the current ratings used during the tests.*

*Testing conducted at 600Vac are considered representative also for the models with lower input voltage.*



Please be informed that UL neither selected the samples and the related branch fuse protection nor determined whether the samples were representative of production samples. The test results apply only to the actual samples tested.

The branch fuse protection used were not the type indicated from the UL standard for the Short Circuit Test - High Fault but were determined from customer.

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Thank you for the opportunity to provide your company with these services. Please do not hesitate to contact me if you should have any questions or comments.

Sincerely

A handwritten signature in blue ink, appearing to read 'Federico Burini'.

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Reviewed by

A handwritten signature in blue ink, appearing to read 'Giovanni Borrelli'.

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