

GUTOR		Modification Information (MI)			
Part:	0N-74159	RECTIFIER MODULE PXWIDC =< 365A DC II		Reg. No.	0N-74159
Originator	SCN	Date:	13.05.2022	Rev. No.	01
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Rev.	Date	Initials	Remark
1	13.05.2022	SCN	Initial

Conclusion

The replacement will fit in form and function according to the following checked points.

Seismic	0N-74159 has the same seismic behavior as 0C0950A.
EMC	0N-74159 has the same EMC behavior as 0C0950A.
Mechanic	0N-74159 has the same dimensions and fixing points as 0C0950A.
Electric	The same functionality is provided by 0N-74159 as by 0C0950A.
Other	0N-74159 does fulfill the same standards as 0C0950A.

What has changed?

Pulse transformers are replaced with IEC60950-1 certified transformers (reinforced insulation). Driver circuit performance is improved. The new design can provide more gate energy with less heat dissipation. With the new design, no additional roof fans are required. Supply current limitation is done with electronic circuitry (without fuses), which significantly improves the circuit's reliability. 0P8593AA has independent control signal input from the controller and from ISBS (dual input). The supply circuit and control signal of the ISBS input is galvanically isolated. For VLU operation, an additional pulse blocking signal is added to the X003 connector.

Why the change?

In the new design, driver circuit topology is improved to avoid core saturation.

Which part can be replaced by the new part?

0C0950A → 0N-74159

If any, all the part numbers previously replaced by 0C0950A can now be replaced by 0N-74159

The replacement will fit in form and function.

What has to be considered with the new part?

The replacement of the new thyristor driver boards is backward compatible.

Schneider Electric		Modification Information (MI)			
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The jumper settings and mating connectors shall be done according to the following tables.

Table 1 0P8593AA(-001) Mating Connectors for XXW Rectifiers

XXW Rectifier		
Cable No. exist. Module	Contact ISO Driver Card	Function
X5	X005	L1L
X6	X006	L2L
X7	X007	L3L
X8	X008	L1N
X9	X009	L2N
X10	X010	L3N

Table 2 0P8593AA(-001) Jumper Settings for XXW Rectifier Modules

J100	J101	J102	J103	J104	J105	X012
Open	Closed	Open	Closed	Closed	Open	Closed

Table 3 0P8593AA(-001) Mating Connectors for XXW Static Switch

XXW SSW		
Cable No. exist. Module	Contact ISO Driver Card	Function
X5	X005	L1L
X6	X006	L2L
X7	X007	L3L
X8	X008	L1N
X9	X009	L2N
X10	X010	L3N

Table 4 0P8593AA(-001) Jumper Settings for XXW Static Switch

J100	J101	J102	J103	J104	J105	X012
Open	Closed	Open	Closed	Closed	Open	Closed
J100	J101	J102	J103	J104	J105	X012
Open	Closed	Open	Closed	Closed	Open	Closed