

Blokset MB series

Low Voltage Equipment

General rules V5



General rules

Blokset MB series

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1.1 Content briefing

- This document defines the general rules to use and manage the technical part of the MB series transfer file.
- It is included in the technical transfer file.
- Each user must comply with the rules to guaranty the quality and the international coherence of the MB series offer.

1.2 Content of the technical transfer file

- The technical transfer file contains mainly documents of offer definition
- Manufacturing documents are supposed to be developed locally by manufacturers, and they are not included in this transfer file.

1.3 Management of the technical transfer file

- Low Voltage Line of Business Asia Pacific (LV LoB APOD) is in charge of management of the file.
- Users are in contact with LV LoB APOD through local technical contact (offer management or technical support engineer) for any requests or questions

Local adaptation is allowed to answer some special needs from customers, and transfer file is designed to allow local adaptations according to local needs.

Partners can decide some "light" adaptations (e.g. language, tools, simple adaptation which doesn't alter the switchboard performance...) under the supervision of SE technical support team

Countries have to contact LV LoB APOD for all other adaptations, and ask for the validation of these local adaptations

3.1 Issuer

- LV LoB APOD, Shanghai, P.R. CHINA

3.2 Addressee

- Users: Schneider equipment activities and partners

3.3 Management of the distribution of the transfer file

- Distribution of successive revisions of the technical transfer file is made with DVD.
- Each revision contains the document "What's new" file, which lists all the changes of these documents since the last revision
- DVD contains all the documents of the technical transfer file (even if they are unchanged).
- Only in case of urgent need, documents are distributed separately (E-Mail, MB series Product Info ...), then they will be included in a new revision which will be distributed using DVD

4.1 Structure of a standard document number

As shown in the following example, a standard document number consists of the following parts:

- Reference number: 8 characters consist of letters and numbers
- Exclusive number assigned by Schneider Global R&D organization
- Type number: 2 numbers indicating the type of a document.
- Version number: 1 or 2 numbers indicating version information
- Transfer number: a number reserved by Schneider Electric R&D organization, which can be ignored by partner



4.2 Local document numbering

- For the new documents generated during local adaptation by partners, partners should manage the numbering within their own manufacturing organization.
- To be consistent with SE document numbering, it is proposed to use an alphanumeric appendix following the standard document number. For example, the number of a local adaptation version of "BBV5595202-0.2" can be "BBV5595202-0.2a".

5.1 Drawing format

- The documents of the transfer file must use the INTERNATIONAL SCHNEIDER drawing format.

5.2 Reference documents

- Each document provided for the certifications, will recall the former number used in order to ensure the traceability.

6.1 The adaptations which can be done by partner autonomously

Adaptation allowed	Why?
You can adapt the enclosure panels (front panels, rear panels, Bottom panels) to end-user needs, ensuring the clearance/ creepage distance remain the same as in Blokset MB series, ensuring meanwhile IP and IK.	Adapting the enclosure panels under the condition of clearance/ creepage distance, IP, IK fulfillment does not affect negatively the IEC61439-1/2 verified performance.
You can adapt outgoing power connection by (1) increasing cross section (2) increasing length as well as insulator support properly ensuring the clearance/creepage distance remain the same as in Blokset MB series.	Increasing the connection dimensions, with due care to insulator installation distance and clearance/ creepage distance does not affect negatively the IEC61439-1/2 verified performance.
You can take a * functional unit (feeder, drawer, incomer) * busbar * cable from Blokset MB series transfer file and increase its size without changing its defined power/current rating.	Increasing the dimensions of functional unit/busbar/power connection/cable, with due respect of rules expressed in Blokset MB series transfer file, will have a slightly positive effect on thermal rise. This does not affect negatively the IEC61439-1/2 verified performance.
For any other change not mentioned in "Adaptation allowed" and "Adaptation forbidden" which may impact IEC61439-1/2, mandatory to consult Schneider.	

6.2 The adaptation which can not be done by partner autonomously

Important note:

Below mentioned cases always affect the officially tested Blokset MB performance.

As design verification is a long and costly process. we thus strictly recommend to follow these rules to avoid impacts on your projects lead-time.

Adaptation not allowed	Why?
You must not change standard color (RAL7016) of Logo, door lock, bottom ventilation cross member & upper logo support.	The standard color of bottom ventilation cross members and upper LOGO support plate is RAL7016. It must not be modified. The logo and lock color is RAL7016. They have to be purchased from Schneider.
You must not decrease busbar size (thickness & width), Qty & group, as well as busbar support quantity. You must not enlarge busbar support distance.	Decreasing busbar size may affect negatively local thermal rise, decreasing support quantity or enlarge support distance may raise Icw risk, thus preventing compliance with IEC61439-1 (risk of local overheating: possible destruction of cables insulation).
You must not change routing of power circuits (Busbar incoming/outgoing) under the scope of Blokset MB standard configuration.	Changing of power circuit routing may impact IEC61439-1/2 verified performance.
You must not change the core parts as per core parts list in technical transfer file.	Core parts are qualified by related test, and impact Icw, Icc, maintenance staff safety, temperature rise, clearance, creepage distance etc.
You must not change the Schneider Electric devices including and not limited to ACB, MCCB, MCB, Switch disconnecter, Contactor, Thermal relay.	All busbar system design and validation is based on components' performance. If it is not conformity, it will impact safety. Considering type 2 coordination, 3 components need be in coordination with each other. If 3 components is inconformity, it will impact performance.
You must not change the ventilation fans defined in Blokset MB series transfer file. If you want to use others, must comply with: The airflow provided by ventilation fans have to be same or bigger than the defined ones, as well the size of ventilation fans have to be the same and smaller than the defined ones.	Decreasing ventilation flow of functional units may affect negatively internal thermal rise, thus preventing compliance with IEC61439-1 (risk of local overheating: possible destruction of electrical devices, insulators, plugs, cables) Increasing fans sizes may affect negatively clearance or creepage distances. Same risk as above.
You must not do any other adaptation which is not comply with IEC 61439-1/2.	Blokset MB is fully comply with IEC61439-1/2