

Residual current circuit-breakers (RCCBs)
DFS 2/4 B

Doepke

**AVAILABLE IN INDIA
FOR THE FIRST TIME!**

Type B RCCBs

For compliance with NEC 2023

DFS 2/4 B - Specially designed to protect electrical installations with:

- Inverters and battery back-up
- Uninterruptible power supply (UPS) systems
- Variable frequency drives (VFDs)
- Lifts and escalators
- Electrical vehicle chargers
- Solar PV arrays



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Specialised protection for compliance with NEC 2023

Applications for Type B RCCBs in NEC 2023:

NEC 2023 mandates the use of Type B RCCBs for the following applications:

- 1. Inverters, battery backup and UPS systems** — Cl. 5.4, Section 10, Part 1, SP 30:2023 requires the use of type B RCCBs for fault protection where inverters may create smooth d.c. residual current (transformerless inverters)
- 2. Variable frequency drives including lifts and escalators** — Cl. 5.4, Section 10, Part 1, SP 30:2023 requires the use of type B RCCBs for fault protection in three-phase variable frequency drives.
- 3. Electrical vehicle chargers** — Cl. 5.3.2.2.101, Section 15, Part 3, SP 30:2023 requires the use of Type B RCCBs for additional protection in electric vehicle charging applications.
- 4. Solar PV Arrays** — Cl. 4.12.3.2, Part 8, SP 30:2023 requires the use of Type B RCCBs for fault protection in Solar PV arrays.



Why **Doepke** RCCBs for compliance with NEC 2023?

- 1. Protection against faults in TN, TT & IT systems** — Reliable operation for automatic disconnection of supply in TN, TT & IT systems for all electrical installations in compliance with Cl. 4.2.11.4.4, Cl. 4.2.11.5.3 & Cl. 4.2.11.6.4 (IS 732:2019)
- 2. Protection against fire in special installations** — Specially designed for locations with risks of fire due to the nature of stored or processed materials (e.g warehouses, paint shops, carpentry workshops etc.) in compliance with Cl. 4.3.2.3.9 (IS 732:2019)
- 3. Protection against electric shock for humans** — Provide essential protection against electric shock for humans against the risk of contact with live parts in the event of failure of basic and fault protection in compliance with Cl. 4.2.11.3.3 (IS 732:2019)



Doepke Type B RCCBs for compliance with NEC 2023

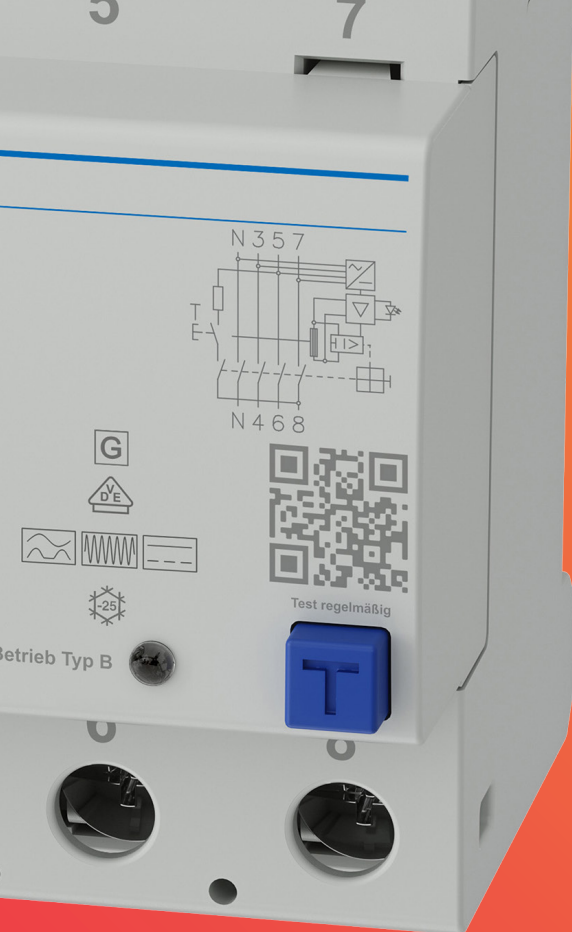
Description	Product Code	Protection
4P 40A 30mA Type B RCCB	DFS 4 040-4/0,03 SK	• • •
4P 40A 300mA Type B RCCB	DFS 4 040-4/0,3 SK	• •
4P 63A 30mA Type B RCCB	DFS 4 063-4/0,03 SK	• • •
4P 63A 300mA Type B RCCB	DFS 4 063-4/0,3 SK	• •
2P 40A 30mA Type B RCCB	DFS2 040-2/0,03-B SK	• • •
2P 40A 300mA Type B RCCB	DFS2 040-2/0,30-B SK	• •
2P 63A 30mA Type B RCCB	DFS2 063-2/0,03-B SK	• • •
2P 63A 300mA Type B RCCB	DFS2 063-2/0,30-B SK	• •

Legend:

- Fault protection in accordance with Cl. 4.2.11.4.4, Cl. 4.2.11.5.3 & Cl. 4.2.11.6.4 (IS 732:2019)
- Fire protection in accordance with Cl. 4.3.2.3.9 (IS 732:2019)
- Additional protection in accordance with Cl. 4.2.11.3.3 (IS 732:2019)

Proudly designed, manufactured & tested in Germany to IEC 62423 for the Indian market





Partner for India



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