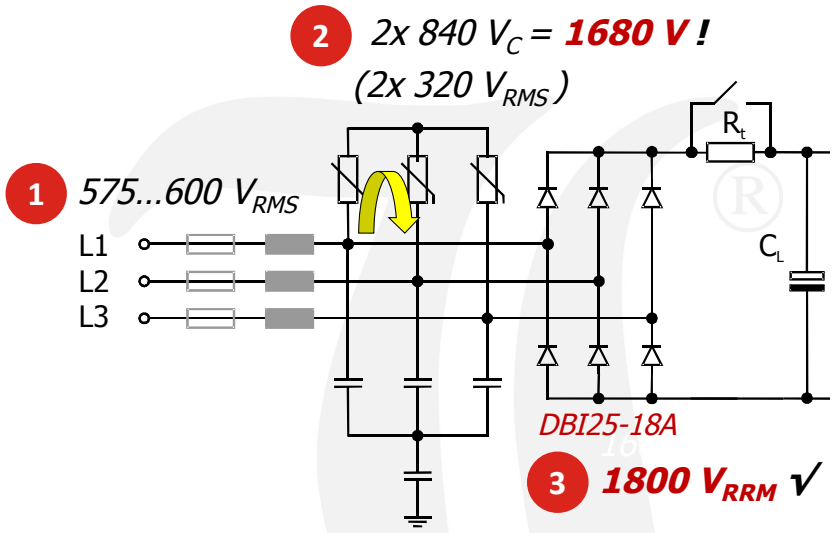
Three Phase Bridge DBI25-18A

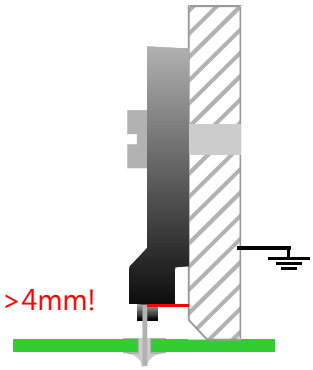
Ensuring the Requirements of EN61000-4-5 at Industrial Mains

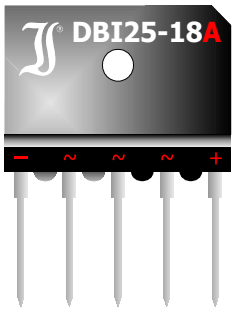
Industrial mains can have 600V_{RMS} and even more (1). That requires the usage of 2x 320V_{RMS} varistors for input voltage surge protection, to fulfill the requirtements of EN61000-4-5. Such varistors have a clamping voltage of typically 2x 840V = 1680V, making the industry standard 1600V input bridges working at or even over the limit (2). This design gap can be managed by using the next generation three phase bridge ***DBI25-18A*** *by Diotec. Its 1800V V_{RRM} provides a* ***comfortable safety margin****, allowing for reliable operation of industrial power supplies and frequency inverters (3).*



Features of the DBI25 series

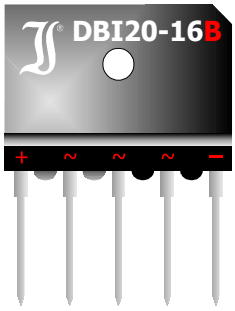
- ✔ V_{RRM} from 800V to 1800V
- ✔ I_{FAV} = 25A at T_C = 115°C (Heatsink Assembly)
- ✔ I_{FAV} = 4A at T_A = 50°C (Free-Standing)
- ✔ Solderable Leads for Direct PCB Assembly
- ✔ Only One Screw required for Heatsink Assembly
- ✔ Case Fully Isolated (Viso = 2500V~)
- ✔ Sufficient Clearance and Creepage





DBI25-xxA series:
Pin Outline – ~~~ +

DBI20-xxB series:
Pin Outline + ~~~ –
(20A, 800...1600V)



For detailed data sheets, type the part number into the "Search" field on http://www.diotec.com/