TECHNICAL DATA PACKAGE

Product Data Sheet

Procurement and maintenance reference

SEMIKRON

SKKH280/20EH

SEMIPACK 3 THYRISTOR BRIDGE POWER MODULE

SEMIKRON SKKH280/20EH is a high-current thyristor bridge module for controlled rectification and AC power regulation. The technical values below describe the verified electrical rating set used to identify this article; the complete installed marking and thermal arrangement remain part of replacement selection.

01 VERIFIED TECHNICAL DATA

Repetitive peak blocking voltage	2000 V
Non-repetitive peak reverse voltage	2100 V
Maximum RMS on-state current	440 A
Average on-state current	280 A at Tc 79 °C
Surge on-state current	8500 A at Tvj 25 °C, 10 ms
I^2t value	361000 A^2s at Tvj 25 °C
Maximum on-state voltage	1.55 V at 750 A
Threshold voltage	0.9 V maximum

Identity note. This data sheet is prepared for SKKH280/20EH. A document carrying an additional suffix such as “4” is not presented as an exact-model manufacturer manual.

02 ADDITIONAL PRODUCT DATA

Slope resistance	0.75 mΩ maximum
Critical current rise rate	250 A/µs maximum
Critical voltage rise rate	1000 V/µs maximum
Circuit-commutated turn-off time	50–150 µs
Virtual junction temperature	−40 to +125 °C
Isolation test voltage	4800 V AC for 1 s
One-minute isolation rating	4000 V AC for 1 min

APPLICATION REFERENCE

Industrial power conversion

High-current rectification and controlled conversion
Variable power regulation and energy transfer

Metals and mineral processing

Furnace power regulation and material heating
Mill power control and process conversion

Renewable and distributed energy

Grid interface conversion and power conditioning
Energy storage conversion and DC regulation

Integration checks

Match gate drive, heatsink, terminal arrangement, cooling, insulation and protection to the installed assembly.

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