ABB FS450R17KE3/AGDR-71C

Identity, role and verified scope

ABB FS450R17KE3/AGDR-71C joins the IGBT switching module and its AGDR-71C driver in an ACS800 EconoPACK+ power stage. The module, driver and heat-sink interface must be treated as one matched replacement arrangement.

Installed position

ABB lists the S-suffix FS450R17KE3/AGDR-71C kit among ACS800 EconoPACK+ spare IGBT assemblies. This product reference omits the S suffix, so the actual nameplate, kit contents and thermal-interface version must be checked before the listed ABB kit identity is applied.

Replacement route

Infineon rates the FS450R17KE3 semiconductor module at 1700 V collector-emitter blocking voltage and 450 A nominal continuous current at the stated case and junction temperatures. These component values do not rate the AGDR-71C gate-driver circuit or the complete drive installation.

Alarm context

ABB describes the move to TIM foil in the ACS800 service process and notes that earlier grease-based kits may remain during the running change. Preserve the existing mechanical fit, electrical connection map and approved heat-sink preparation when selecting and installing a replacement.

Drive family	ACS800 EconoPACK+ power stage
IGBT module	Infineon FS450R17KE3
Gate-driver designation	AGDR-71C
ABB listed S-suffix kit	FS450R17KE3/AGDR-71C S; 68569591

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Engineering decisions and acceptance

Use these checks with the complete FS450R17KE3/AGDR-71C marking and approved ACS800 power-stage design.

Component blocking voltage	1700 V VCES (FS450R17KE3 only)
Component nominal current	450 A at TC 80 °C, Tvj max 150 °C (FS450R17KE3 only)
Component gate-emitter limit	±20 V peak (FS450R17KE3 only)
Thermal-interface transition	Grease-based kit to ABB TIM-foil kit; confirm supplied execution

Component and kit boundary

Keep Infineon FS450R17KE3 ratings separate from ABB kit identity. Verify the AGDR-71C marking, complete S suffix where present and installed ACS800 frame.

Service release

Record the thermal-interface material and mounting method; verify drive cooling, insulation and gate-driver status before normal operation.

Related product references

ABB FS450R17KE3/AGDR-71C S

ABB FS450R17OE4/AGDR-71C S TIM FOIL SP

Reference codes are not confirmed interchangeable parts.