

TD330N16KOF

1600 V 330 A Thyristor/Diode Power Block

CONTROLLED ENGINEERING COPY

Infineon TD330N16KOF is a 1600 V, 330 A thyristor/diode phase-control power block in the BG-PB50AT-1 package for industrial power conversion and motor-control service.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	TD330N16KOF
Manufacturer	Infineon
System family	Infineon 50 mm Power Block
Record scope	Installation, application and verification



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01 PRE-INSTALLATION PLAN

- 1

Confirm TD330N16KOF and ordering product number TD330N16KOFHPSA2.
- 2

Place the converter and driven process in the approved maintenance state.
- 3

Isolate incoming power and prove all stored energy discharged.
- 4

Record busbar polarity, gate leads, protection components and heat-sink position.
- 5

Use ESD controls and protect the pressure-contact surfaces.

MATCHED HARDWARE

- TD330N16KOF with complete nameplate identity
- Matched host, rack or transducer system
- Recorded cable, terminal and connector schedule
- Approved grounding, shielding and configuration record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	TD330N16KOF recorded
Physical interface	Probe, cable and sensor matched
Functional proof	Static gap and dynamic response

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Device configuration	SCR / diode phase control
Repetitive peak voltage	1600 V
Average on-state current	330 A at 85 C
Surge current	10000 A at 10 ms
Critical di/dt	250 A/us
Slope resistance rT	0.5 mOhm
Thermal resistance RthJC	0.112 K/W
Maximum junction temperature	130 C
Threshold voltage VT0	0.8 V
I2t	500 x 10 ³ A2s
Package	BG-PB50AT-1
Ordering product number	TD330N16KOFHPSA2
Compliance	Lead-free and RoHS compliant

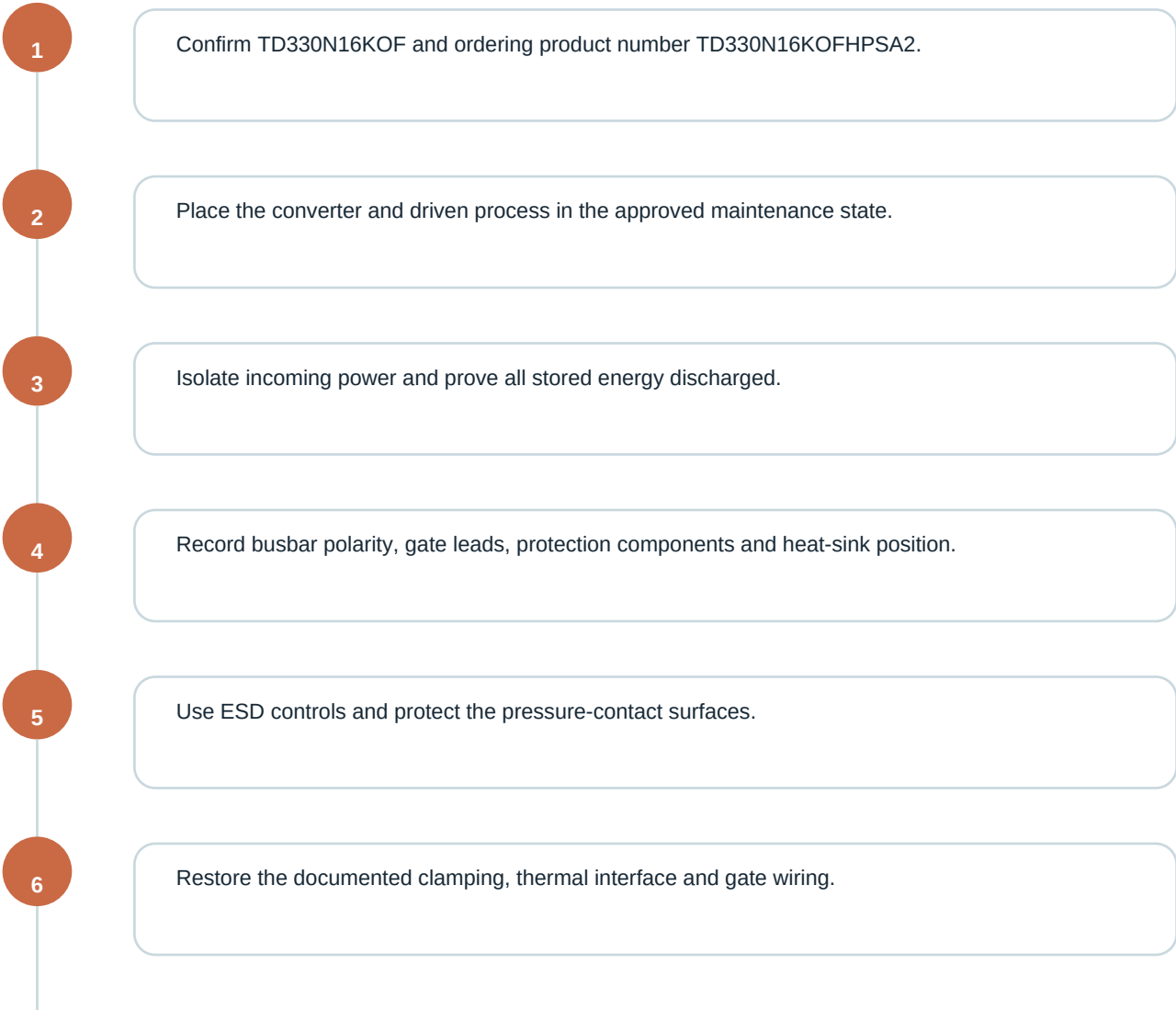
RELATED GE PRODUCT PAGES

1 ABB 3hna006565-001	2 ABB 3hna003882-001-02	3 ABB 3hac029105-002
4 ABB 3hac025466-001	5 ABB 3hac058040-001	6 ABB 3hac033388-001
7 ABB dsqc323-3hab5956-1	8 ABB 3hac17484-8	9 ABB dsqc332

FIELD NOTE

Verify TD330N16KOF, package, polarity, heat-sink interface, clamping arrangement, gate leads and semiconductor protection before replacement. The module uses pressure-contact construction; do not infer mounting or cooling details from a nearby power-block rating.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	TD330N16KOF
Physical interface	Exact identity, installed position and every connected interface matched
Configuration	Recorded hardware and software configuration restored
Functional proof	Diagnostics and controlled functional response recorded

04 RETURN-TO-SERVICE RECORD

- ☐ Use ESD controls and protect the pressure-contact surfaces.
- ☐ Restore the documented clamping, thermal interface and gate wiring.
- ☐ Review firing, protection and temperature diagnostics after controlled energization.
- ☐ Increase load under control and record current and thermal response before release.

VERIFICATION RECORD

PRODUCT IDENTITY	TD330N16KOF
INSTALLED POSITION	Documented installed system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Confirm the exact model remains assigned to the documented host position.
- ☐ Verify every mating interface and field connection against the as-found record.
- ☐ Exercise the intended product function under controlled conditions.
- ☐ Retain the diagnostic and functional-test result before release.

SOURCE IDENTIFIERS

TD330N16KOF Thyristor/Diode Power Module | Infineon Technologies product record