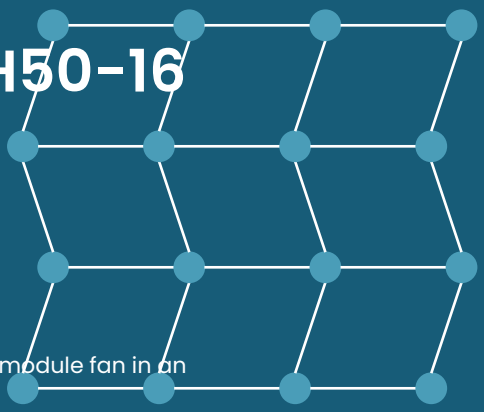
APTER POWER
INDUSTRIAL AUTOMATION

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ebm-papst D3G146-AH50-16

Product Reference



ebm-papst Long-life centrifugal cooling fan used as the D8D module fan in an ABB ACS880-304 +A003 configuration

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ebm-papst manufacturer sources. No product photograph is included.

Product / lookup identity	ebm-papst D3G146-AH50-16
Reference number	D3G146-AH50-16
Document basis	Published ebm-papst product records, PDFs, and manuals listed on page 3

Product page

https://www.apterpower.com/EBM-Papst/d3g146-ah50-16

Apter Power contact

sales13@apterpower.com | +86 180 3023 5313

Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ebm-papst D3G146-AH50-16 is an exact fan type identified by ABB official documentation as a long-life centrifugal fan and as the D8D module cooling fan in an ACS880-304 +A003 diode-supply-module configuration; the physical ebm-papst nameplate must still be checked because no exact public ebm-papst -16 data page was located. Its documented system function is to move cooling air through the drive module so heat produced by the power electronics can be removed and the drive can maintain its designed operating capability and reliability. System context: ebm-papst Long-life centrifugal cooling fan used as the D8D module fan in an ABB ACS880-304 +A003 configuration.

Published field	Manufacturer-published value or verified identity note
Exact type code	D3G146-AH50-16
Officially documented type	Long-life centrifugal fan
ABB stock code	3AUA0000059428
Verified host role	D8D module fan in ABB ACS880-304 +A003 hardware documentation
Host configuration notation	DOL +C188
Rated host-supply voltage	230 V AC
Frequency	50/60 Hz

System function and signal path

01	Energy And Airflow Path: The host drive supplies 230 V AC to the D8D module fan; the fan converts electrical power into mechanical airflow that removes heat from the power-electronic module.
02	Process Signals: None documented. The fan is not an analog-input, digital-I/O, measurement, or PLC processing module.
03	Control Or Feedback: No exact D3G146-AH50-16 speed-control, tachometer, alarm, or communication signal is confirmed in the reviewed official sources. Do not copy the interface of -11 or -01 variants.
04	Host Monitoring: Any drive cooling alarm, fan supervision, or maintenance counter belongs to the host-drive design and must be confirmed in the exact ACS880 hardware and firmware documentation.

Applications, answers, and official sources

1. ACS880 D8D module cooling: Moves cooling air through an ABB ACS880-304 +A003 D8D module in the exact configuration documented by ABB.
2. Long-life drive fan replacement: Serves as the exact type associated with ABB long-life centrifugal fan stock code 3AUA0000059428 when both codes and the host parts list match.
3. Preventive drive maintenance: Supports planned cooling-fan renewal under ABB's drive-specific preventive-maintenance schedule; ABB recommends replacing long-life fans every nine years after installation.
4. Industrial power-converter cooling: Applies only to a power-converter assembly whose manufacturer documentation explicitly names D3G146-AH50-16; no broader HVAC or machine compatibility should be inferred.

Frequently asked questions

What is D3G146-AH50-16?	ABB official documentation identifies it as a long-life centrifugal cooling fan and as the D8D module fan in an ACS880-304 +A003 configuration.
What is the associated ABB stock code?	ABB maps D3G146-AH50-16 to stock code 3AUA0000059428 in its long-life-fan technical note.
Which equipment is officially verified for this fan?	The cited ABB hardware manual identifies it as the D8D module fan for an ACS880-304 +A003 configuration. Other equipment requires its own manufacturer documentation.
What supply is documented?	ABB lists 230 V AC at 50/60 Hz for the D8D module-fan application.
What nominal current does ABB list?	ABB lists 1.20 A at 50 Hz and 1.62 A at 60 Hz.
Can D3G146-AH50-11 data be used for the -16 fan?	No. The suffix is part of the exact fan code, and no official source reviewed here establishes that -11 and -16 share all electrical, mechanical, airflow, control, or approval data.

Official ebm-papst sources

ABB Drive Services - New Improved Long-Life Fans for LV AC Drives	https://library.e.abb.com/public/3c9550504190466486cf7be1ccde75aa/ABB_New%20long-life_fans_Technical_note_3AUA0000216096%20REVF_EN.pdf
ABB ACS880-304 +A003 Hardware Manual	https://library.e.abb.com/public/7364e5f10f5348189699d290664e5043/EN_ACS880-304_A003_HW_G_A4.pdf
ebm-papst Operating Instructions Search	https://www.ebmpapst.com/sg/en/support/downloads/operating-instructions.html