ABB G2E140-PI32-10

01 Function and selected configuration

Product function

ABB drive fan G2E140-PI32-10 restores forced airflow through the compatible drive cooling position using the specified 115 V auxiliary supply.

Selected configuration

The fan is associated with the R7i/R8i cooling arrangement in the ACS800-604LC hardware data. Its 115 V AC, 60 Hz supply must be distinguished from the adjacent 230 V fan variant before a replacement is connected.

Functional path

115 V auxiliary	Fan motor	Centrifugal airflow	Drive cooling path

Auxiliary supply	115 V AC, 60 Hz
Current	1.9 A nominal; 3.8 A starting
Cooling role	R7i/R8i centrifugal fan

Nominal current is 1.9 A and starting current is 3.8 A. The auxiliary circuit must support startup as well as steady operation, so a satisfactory unloaded supply measurement does not establish the condition of the circuit during acceleration.

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02 Technical operating envelope

ABB code	10032971
Product type	Long-life fan, centrifugal
Rated voltage	115 V AC
Rated frequency	60 Hz

Rated current	1.9 A
Starting current	3.8 A
Documented drive frame	R7i/R8i

Electrical figures apply to G2E140-PI32-10 at 115 V AC and 60 Hz. They must not be transferred from the neighboring 230 V model.

Signal interpretation

The 3.8 A starting requirement is distinct from the 1.9 A nominal operating current.

Interface boundary

Retain the intended fan rotation, ducting and drive cooling position; matching the supply alone does not prove mechanical compatibility.

What is the fan construction of G2E140-PI32-10?

It is a centrifugal cooling fan rather than an interchangeable axial fan.

Why can a running G2E140-PI32-10 still leave a cooling fault?

Blocked ducts, incorrect airflow direction or an unsuitable mounting arrangement can prevent effective cooling even when the impeller turns.

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03 System integration and applications

Drive airflow restoration

Restore airflow in the applicable R7i/R8i cooling position.

Auxiliary-circuit checks

Assess the 115 V supply during fan startup and steady operation.

Cooling maintenance

Inspect ducts and obstructions while replacing the fan.

Thermal fault diagnosis

Compare airflow and drive thermal indications after service.

System and supply context

This fan belongs to the specified ABB drive cooling arrangement; code 10032971 identifies the associated spare reference.

Application boundary

Apply the fan only after checking the drive frame, supply frequency, connector and mechanical air path.

What starting current must the circuit support for G2E140-PI32-10?

The starting-current reference is 3.8 A, compared with 1.9 A nominal current.

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04 Engineering selection decisions

Can G2E140-PI32-10 use the 230 V supply of an adjacent fan variant?

No. This exact type is rated for 115 V AC at 60 Hz.

Which drive-frame arrangement is associated with G2E140-PI32-10?

The ACS800-604LC cooling table associates it with R7i/R8i frames; verify the exact installed drive configuration.

How should the supply be checked during startup of G2E140-PI32-10?

Observe the auxiliary voltage and startup behavior at the fan circuit, then compare steady current after acceleration.

What demonstrates successful replacement of G2E140-PI32-10?

Confirm secure mounting, correct airflow, stable auxiliary supply and acceptable drive thermal behavior under the approved operating test.

Air path	Remove obstructions and retain the original duct arrangement.
Fan safety	Keep the fan isolated while working around the impeller.

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05 Configuration boundary and references

Lifecycle and support

The current production and factory-support status of G2E140-PI32-10 is unconfirmed.

Replacement assessment

Use the exact fan and drive-frame arrangement; do not interchange the 115 V and 230 V variants.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; it does not replace manufacturer instructions.

Technical basis

ABB ACS800-604LC Hardware Manual, Chinese Rev. A; ABB Long-life Fans Technical Note 3AUA0000216096 Rev. F.

Related product navigation

ABB DSQC651 3HEA800439-002

ABB DSQC346E 3HAB8101-11/10A

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries