General Electric 8115-DO-DC-01

Technical Reference and Engineering Data

8115-DO-DC-01 is an eight-channel, 2-60 Vdc PAC8000 discrete output module for switching relays, solenoids and other DC loads. Its shared field supply and current limits must be checked against both steady-state and inrush demand.

01 Exact identity and system role

Complete model	8115-DO-DC-01
Product type	PAC8000 8-Channel DC Discrete Output Module
Manufacturer	General Electric
Technical source	GE Intelligent Platforms PAC8000 8115-DO-DC datasheet
Output channels	8
Load-voltage range	2 to 60 Vdc
Output isolation	Non-isolated
Continuous current per channel	1 A
Inrush per channel	4 A below 100 ms; 6 A below 20 ms
Module continuous-current total	6 A

System position

Match the B6 keyed slot, selected terminal unit, 2-60 Vdc supply, eight output loads and stored fail-safe/pulse parameters.

Lifecycle and installed-base context

Exact offered identity	The complete marking is 8115-DO-DC-01; published electrical data is for base module 8115-DO-DC.
Evidence boundary	Suffix -01 is not decoded beyond the supplied marking without an exact GE option record.
Replacement rule	Match voltage/current limits, B6 keying, terminal class, fail-safe state and pulse behavior.

Available unit details

Supply scope	One 8115-DO-DC-01 output module; terminal unit, fusing and field supply are separate unless quoted.
Unit evidence	Request the complete label, B6 key, Railbus connector and terminal-side photographs.
Load evidence	Keep the eight-channel load schedule, inrush calculation and fail-safe configuration with the order.

02 Verified technical data

Output channels	8
Load-voltage range	2 to 60 Vdc
Output isolation	Non-isolated
Continuous current per channel	1 A
Inrush per channel	4 A below 100 ms; 6 A below 20 ms
Module continuous-current total	6 A
Module inrush total	10 A below 100 ms; 18 A below 20 ms
ON-state voltage drop	0.25 V maximum
OFF-state leakage	1 mA maximum

Additional engineering data

Pulse duration range	2 ms to 130 s
Output response	1 ms maximum
Railbus current	45 mA typical; 70 mA maximum
Module key	B6
Published module width	42 mm

Published unit weight	200 g
General-purpose terminals	8604-FT-FU or 8602-FT-ST
Hazardous-area terminals	8611-FT-FU or 8610-FT-NA

Applicability boundary

The public datasheet defines the 8115-DO-DC base module; -01 is preserved as the complete offered identity without inventing an option decode.

03 Integration and engineering interpretation

Relay and solenoid switching

Drive 2-60 Vdc coils whose continuous and inrush demand remains within channel and module limits.

Momentary command outputs

Use the 2 ms to 130 s timing range for documented start, reset or trip pulses.

Fail-safe actuator states

Restore the predefined or last-value fallback required by the process risk assessment.

PAC8000 DC load banks

Allocate simultaneous outputs so the shared field supply and 6 A module total are not exceeded.

Technical notes

Current audit	Record continuous and inrush current for each output plus the worst simultaneous module total.
Fail-safe proof	Remove the commanded data path under the approved test and confirm the configured fallback state.
Pulse proof	Measure momentary output duration on every channel using timed control.

Interpretation boundaries

Product boundary	Apply the listed facts to 8115-DO-DC-01 and the documented GE PAC8000 Remote I/O discrete output modules context only.
Interface boundary	Connector, terminal, bus, cable and companion-device assignments must match the installed drawing.
Electrical boundary	Use exact-model values only; system-level ratings remain conditional on the complete installed configuration.
Configuration boundary	Switches, jumpers, addresses, firmware and project settings must be reconciled before energization.
Diagnostic boundary	Interpret indicators and fault states together with measured inputs, outputs and host-system status.
Acceptance rule	Use the approved system baseline and maintenance procedure for the final as-left decision.

04 Diagnostic decisions and support record

How many outputs are provided by 8115-DO-DC-01?	The base module provides eight DC output channels.
What load-voltage range applies to 8115-DO-DC-01?	The published range is 2 to 60 Vdc.
What continuous current can one channel of 8115-DO-DC-01 switch?	Each channel is rated 1 A continuous, subject to the 6 A module total.
What inrush limits apply to 8115-DO-DC-01?	Per channel: 4 A below 100 ms or 6 A below 20 ms; module totals are 10 A and 18 A respectively.
What pulse range is available on 8115-DO-DC-01?	Momentary or continuous pulse timing is configurable from 2 ms to 130 s.
Which key identifies 8115-DO-DC-01?	The published mechanical key is B6.
What does suffix -01 mean on 8115-DO-DC-01?	It remains part of the offered identity; no unsupported electrical meaning is assigned.
How should 8115-DO-DC-01 be commissioned?	Prove each load, current, timing, fail-safe state, process feedback and Railbus diagnostics.

Verified source

GE Intelligent Platforms PAC8000 8115-DO-DC datasheet

Related product references

Related product	General Electric IS420ESWBH3AX
Related product	General Electric DS200DSPCH1AEA
Related product	General Electric IS220PTURH1A

Related product	General Electric 531X133PRUALG1

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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Acceptance evidence package

Nameplate evidence	Overall and close photographs showing 8115-DO-DC-01, revision, approval and serial details where present.
Installation evidence	Views of the rack position, mechanical datum, terminal assignment, cable route and strain relief.
Configuration evidence	Export or screenshots identifying the approved hardware assignment and parameters without exposing credentials.
Baseline evidence	As-found readings with units, test conditions, machine state and the instrument used.
Inspection evidence	Connector, contact, insulation, fastener, contamination and heat-condition observations.
Functional evidence	As-left readings and the controlled input, output or channel response used for acceptance.
Change evidence	Any wiring, setting, firmware or mechanical change linked to its approved work reference.
Release evidence	Technician, reviewer, date, asset reference and the maintenance-record location for traceability.

Controlled acceptance sequence

01 Relay and solenoid switching	Drive 2-60 Vdc coils whose continuous and inrush demand remains within channel and module limits.
02 Momentary command outputs	Use the 2 ms to 130 s timing range for documented start, reset or trip pulses.
03 Fail-safe actuator states	Restore the predefined or last-value fallback required by the process risk assessment.
04 PAC8000 DC load banks	Allocate simultaneous outputs so the shared field supply and 6 A module total are not exceeded.

Evidence quality controls

Traceability	Each value is tied to 8115-DO-DC-01, the asset location, test state, instrument and date.
Repeatability	The same approved method and comparable operating state are used for before-and-after readings.
Resolution	Recorded precision does not exceed the capability of the instrument or source document.
Reference state	Stopped, energized, loaded and process-running observations are clearly distinguished.
Change control	Every changed setting, connection or mechanical datum has an approved reason and reviewer.
Retention	Evidence remains accessible with the maintenance record for future troubleshooting and replacement review.

As-left commissioning record

Exact delivered marking	8115-DO-DC-01; photograph and record any additional label detail.
Installed asset reference	Machine, bearing, train, channel and drawing identifiers.
Mechanical as found	Reach, lock position, gap reference, cable route and connector support.
Static reading as found	Gap, bias, continuity or channel value appropriate to the installed system.
Companion identities	Extension cable, Proximitor or conditioner and monitor channel markings.
Mechanical as left	Final reach, lock position, target clearance and route protection.

Exact-model engineering notes

Current audit	Record continuous and inrush current for each output plus the worst simultaneous module total.
Fail-safe proof	Remove the commanded data path under the approved test and confirm the configured fallback state.
Pulse proof	Measure momentary output duration on every channel using timed control.