

INSTALLATION & COMMISSIONING GUIDE

GE IC694MDL742

DC Output Module

GE IC694MDL742 is a 16-point positive-logic DC output module for PACSystems RX3i. It sources current to field loads and provides electronic short-circuit protection for each group of eight outputs.

01 / Before work starts

Field-device power is supplied externally. An ESCP trip switches off the affected output group while point LEDs can remain on; correct the fault before cycling field power.

System match

Connect loads between their output terminal and the negative field-power bus. Assess the total current of each group together with cabinet temperature before commissioning.

Acceptance boundary

ESCP does not prevent an individual output from exceeding its rating. A point LED is not proof that field current is reaching the load.

02 / Installation and inspection sequence

01 Isolate field power before checking output wiring or clearing a short-circuited load.

02 Wire positive field supply to terminals 1 and 11; use terminals 10 and 20 for the respective group returns.

03 Connect loads from the output terminals to the negative power bus; this is a sourcing module.

Engineering enquiries

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04 Keep every output within 1 A and apply the lower group limit at elevated temperature.

05 Check load inrush against the documented 5.2 A for 10 ms characteristic.

06 Allow for up to 1.2 V output drop when evaluating the voltage available at a load.

07 Do not use point LEDs alone to clear a fault: they can remain lit during an ESCP trip.

08 Correct the fault before cycling 12/24 V DC field power to reset electronic protection.

03 / Functional acceptance

Inspection	Acceptance focus
Solenoid actuation	Switch DC solenoid loads within both the point rating and the applicable group-current limit.
Motor starter commands	Provide discrete DC control signals to suitable starter control circuits.
Panel indication	Drive compatible indicators while accounting for off-state leakage and voltage drop.
Grouped machine outputs	Organize RX3i outputs into two field-power groups and diagnose group-level short-circuit trips.

04 / Fault and service decisions

Why can IC694MDL742 point LEDs remain on while a load is off?

An electronic short-circuit trip disables the affected group and lights the red F indicator without switching off the point LEDs. Check field power and the group fault before treating the load as a controller-program problem.

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Does IC694MDL742 limit every output to a safe overload current?

No. Electronic protection addresses short-circuited loads at group level; each point must still remain within its 1 A maximum rating.

How is IC694MDL742 electronic short-circuit protection reset?

Correct the short circuit, then cycle the 12/24 V DC user supply to the module under the approved shutdown procedure.

How much combined current may one IC694MDL742 group supply?

The maximum is 4 A per group at 50 C and 3 A per group at 60 C. Check the combined load, rather than multiplying eight outputs by the 1 A point rating.

Manufacturer reference

GE Fanuc PACSystems RX3i System Manual, GFK-2314, June 2004, pp. 7-21 to 7-23 (PDF pp. 157-159)

Related GE portfolio

Explore these related catalogue entries. Selection requires an independent system and application check; listing does not establish interchangeability.

GE IC695PNS001	PACSystems RX3i portfolio
GE IC695PSD040F	PACSystems RX3i portfolio
GE IC695PSD040	PACSystems RX3i portfolio
GE IC695CPU310	PACSystems RX3i portfolio
GE IC695RMX128	PACSystems RX3i portfolio
GE IC695ACC400	PACSystems RX3i portfolio

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