

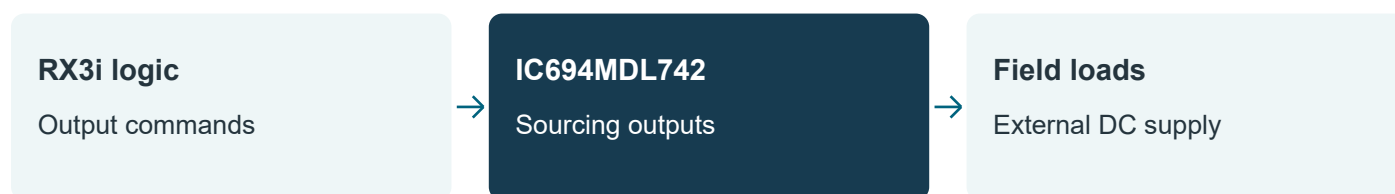
## TECHNICAL REFERENCE

# 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 / Functional architecture



Functional relationship only. Use the installed equipment drawings for actual connections.

### 02 / Technical data

| Parameter                         | Documented characteristic |
|-----------------------------------|---------------------------|
| Rated Voltage                     | 12/24 V DC                |
| Output Voltage Range              | 12-24 V DC (+20%, -15%)   |
| Output Points                     | 16; two groups of eight   |
| Logic                             | Positive; sourcing        |
| Maximum Current per Point         | 1 A                       |
| Maximum Current per Group at 50 C | 4 A                       |
| Maximum Current per Group at 60 C | 3 A                       |

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|                                    |                                             |
|------------------------------------|---------------------------------------------|
| <b>Backplane Current</b>           | 130 mA at 5 V; all outputs on               |
| <b>Inrush Current</b>              | 5.2 A for 10 ms                             |
| <b>Maximum Output Voltage Drop</b> | 1.2 V                                       |
| <b>Maximum Off-State Leakage</b>   | 1 mA                                        |
| <b>Maximum ON Response</b>         | 2 ms                                        |
| <b>Maximum OFF Response</b>        | 2 ms                                        |
| <b>Field Isolation</b>             | 250 V AC continuous; 1500 V AC for 1 minute |
| <b>Group Isolation</b>             | 250 V AC continuous; 1500 V AC for 1 minute |

## Engineering 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.

## 03 / Application context

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

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## 04 / Engineering questions

### 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.

### 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.

|                        |                           |
|------------------------|---------------------------|
| <b>GE IC695RMX128</b>  | PACSystems RX3i portfolio |
| <b>GE IC695ACC400</b>  | PACSystems RX3i portfolio |
| <b>GE IC695PNS001</b>  | PACSystems RX3i portfolio |
| <b>GE IC695PSD040F</b> | PACSystems RX3i portfolio |
| <b>GE IC695PSD040</b>  | PACSystems RX3i portfolio |
| <b>GE IC695CPU310</b>  | PACSystems RX3i portfolio |

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