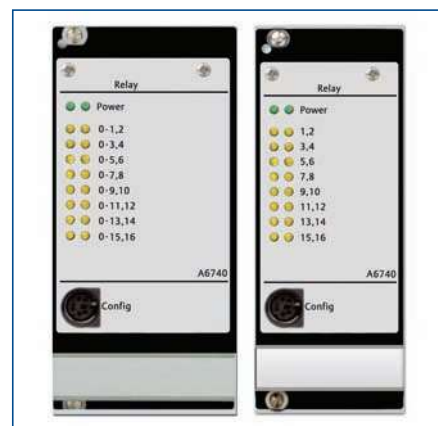# 16-Channel Output Relay Module Specifications

The 16-Channel Output Relay Module is designed for high reliability for the plant's most critical rotating machinery. This 2-slot monitor is used together with the CSI 6500 to build a complete API 670 machinery protection monitor. Applications include steam, gas, compressors and hydro turbo machinery.

Any channel clear, alert or alarm signal can be selected as input to the 16-Channel Output Relay Module. Use Boolean logic, apply time delay, and select an output relay to complete the configuration. Easy-to-use software provides graphical logic displays that guide the user pictorially through configuration.

The CSI 6500 Machinery Health Monitor is an integral part of PlantWeb® and AMS Suite.

PlantWeb provides operations-integrated machinery health combined with the Ovation® and DeltaV™ process control system. AMS Suite provides maintenance personnel advanced predictive and performance diagnostic tools to confidently and accurately determine machine malfunctions early.
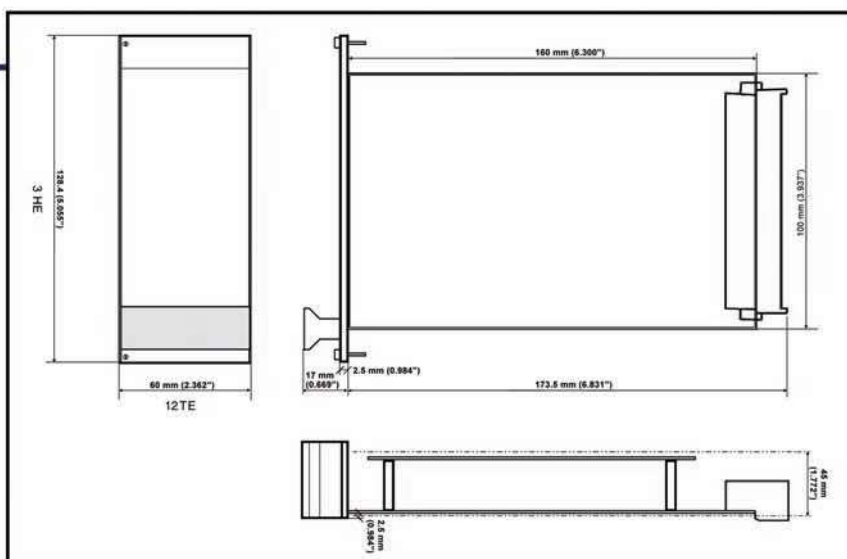


*A6740*          *A6740-10*

- 3U size, 2-slot plu-in module decreases cabinet space requirements in half from traditional 6U size cards

- API 670 compliant, hot swappable module

- 60 inputs, 30 logical expressions, 16 relay outputs

- 6740 is a 12TE wide module for IMR6000 series rack

- 6740-10 is the 10TE wide module for the IMR6500 series rack

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| Data Output | |
|---|---|
| Relays | Redundant relay configurable<br>Mechanical relays per API 670 specification<br>Control voltage: 13-32 VDC<br>Contact load: 48 V, 1 A<br>Normally open or Normally closed, selectable<br>Normally energized, or Normally non-energized, selectable<br>Single pole, double throw (SPDT) |
| Logic | Redundant relay configurable<br>Off, AND, OR, 2 out of 3, AND AND OR<br>Up to 30 logic expressions definable per 6740 module |
| Inputs | 60 inputs of type:<br>■ channel clear (slot number), channel 1 and 2<br>■ alert (slot number), channel 1 and 2<br>■ danger (slot number), channel 1 and 2 |
| Outputs | Relay 1-16 |
| Time delay | 0-30 seconds |
| Handle | Easily remove card and provide plate for module and sensor identification |

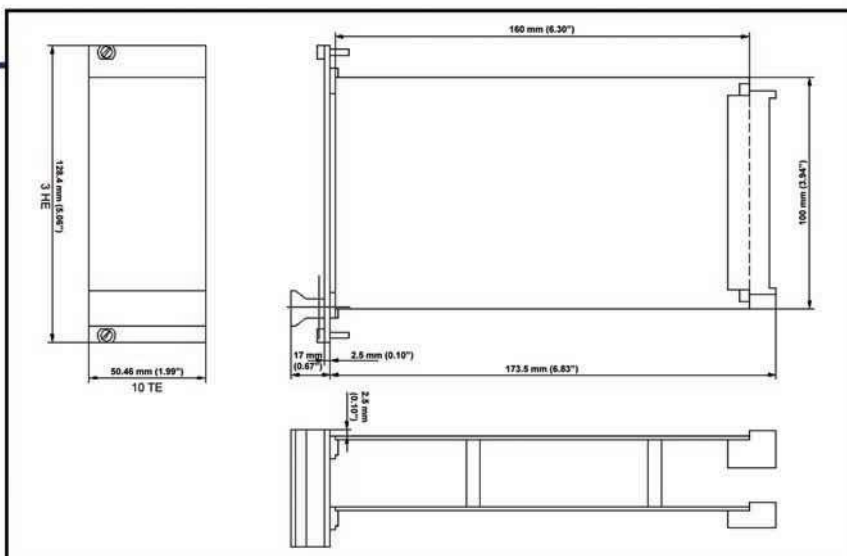| Environmental, General | |
|---|---|
| Module | IP 00, DIN 40050 |
| Front plate | IP 20, DIN 40050 |
| Climate | DIN 40040 class KTF |
| Operating temperature | 0°-65° C (32°-149° F) |
| Temperature for storage and transport | -40°-70° C (-40°-158° F) |
| Relative humidity | 5-95%, non condensing |
| Vibration<br>   - amplitude<br>   - acceleration | IEC 68-2, part 6<br>0.15 mm, 10-55HZ<br>19.6 mm/s$^2$, 55-150 Hz |
| Shock<br><br>   - shock duration | IEC 68-2, part 29<br>98 m/s$^2$ (9.98 g's peak)<br>16 msec |
| EMC resistance | EN50081-1 / EN50082-2 |
| Power consumption | Max. 6 W |
| Configuration | Password protected |

## 6740 Relay Module Dimensions:

PCB/EURO card format according to
DIN 41494, 100 x 160 mm (3.937 x 6.300 in)
Width:          60 mm (2.362 in) (12 TE)
Height:         128.4 mm (5.055 in) (3 HE)
Length:         160 mm (6.300 in)
Net weight:     app 320 g (0.705 lbs)
Gross weight:   app 450 g (0.992 lbs)
Packing volume: app 2.5 dm³ (0.088 ft³)



## 6740-10 Relay Module Dimensions:

PCB/EURO card format according to
DIN 41494, 100 x 160 mm (3.937 x 6.300 in)
Width:          50.46 mm (1.99 in) 10 TE)
Height:         128.4 mm (5.055 in) (3 HE)
Length:         160 mm (6.300 in)
Net weight:     app 320 g (0.705 lbs)
Gross weight:   app 450 g (0.992 lbs)
Packing volume: app 2.5 dm³ (0.088 ft³)

## Ordering Information

| Model Number | Product Description |
| --- | --- |
| A6740 | 16-Channel Output Relay Module, 12 TE wide module for use in IMR 6000/10, IMR 6000/20 and IMR 6000/30 |
| A6740-10 | 16-Channel Output Relay Module, 10 TE wide relay module for use with CSI 6500 systems |

**PlantWeb**
Online Machinery Health Management powers PlantWeb through condition monitoring of mechanical equipment to improve availability and performance.

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