

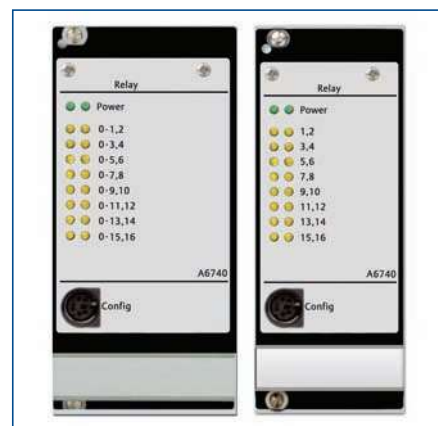
## 16-Channel Output Relay Module Specifications

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

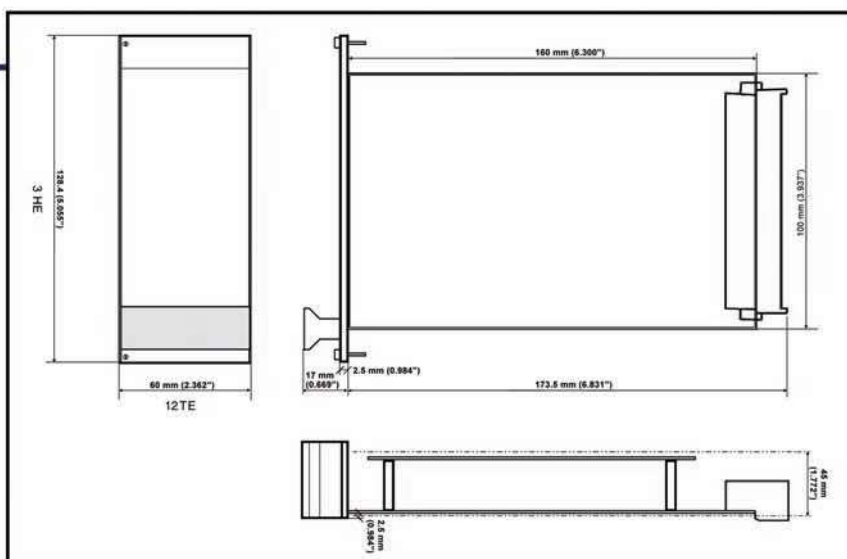
A6740-10

- 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

| <b>Data Output</b>                    |   |
|---------------------------------------|---|
| 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: <ul style="list-style-type: none"> <li>■ channel clear (slot number), channel 1 and 2</li> <li>■ alert (slot number), channel 1 and 2</li> <li>■ danger (slot number), channel 1 and 2</li> </ul>  |
| Outputs                               | Relay 1-16  |
| Time delay                            | 0-30 seconds  |
| Handle                                | Easily remove card and provide plate for module and sensor identification   |
| <b>Environmental, General</b>         |   |
| 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                             | IEC 68-2, part 6  |
| - amplitude                           | 0.15 mm, 10-55HZ  |
| - acceleration                        | 19.6 mm/s <sup>2</sup> , 55-150 Hz  |
| Shock                                 | IEC 68-2, part 29   |
| - shock duration                      | 98 m/s <sup>2</sup> (9.98 g's peak)<br>16 msec  |
| EMC resistance                        | EN50081-1 / EN50082-2   |
| Power consumption                     | Max. 6 W  |
| Configuration                         | Password protected  |

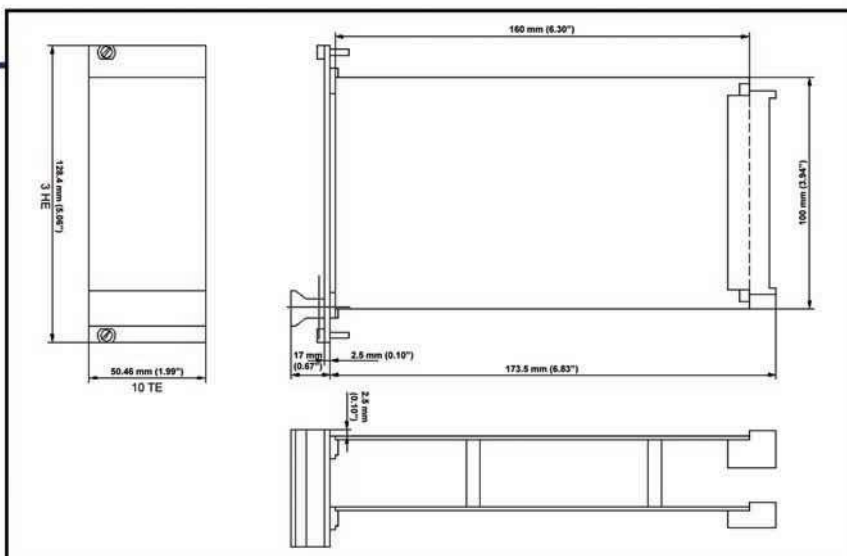
### 6740 Relay Module Dimensions:

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 dm<sup>3</sup> (0.088 ft<sup>3</sup>)



### 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 dm<sup>3</sup> (0.088 ft<sup>3</sup>)



## 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                 |

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