

4. User Guide

Raychem RPG Aluminium Enclosures

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1. Product Overview

1.1 Introduction



1.2 Product description

The Aluminium die cast enclosures are used for fitting electrical and mechanical components. The enclosures are made up of material AlSi12.

Lid and base are screwed together with stainless steel screws. A sealing or gasket between Lid and Base assures high Ingress Protection Class of IP 66/67/68.

2. Technical data

Material: AlSi12, as per DIN 1706

Components: Fastening threads M4/M6 in enclosure bottom

Ingress Protection: IP66/67/68 as per IEC 60529

Gasket: Neoprene Gasket (-40 °C to +100 °C)
Silicon Gasket (-60 °C to +140 °C)

Lid Screws: Stainless Steel 1.4301 (A2), Captive

Surface: Painted/ Non-painted

Mounting plates: Sheet Steel and Galvanized

External mounting Bracket (Optional): Stainless steel 1.403 (A2)

3. Safety Instructions:

Follow these guidelines for safety and maximum product performance:

1. Observe local health and safety requirements and guidelines for manual material handling.
2. Set the enclosure on a level surface with adequate ventilation.
3. Ensure the rubber feet are used for protection and stability on level surfaces.
4. Wall-mount the unit if placement on a level surface is not available, or desired.
5. Be sure to take appropriate electrostatic discharge precautions

4. Installation

The enclosures are useful for accommodating equipment's such as terminals, switches, cable glands, display unit and measuring instruments. When processing the enclosures attention must be paid that there is suitable minimum spacing between the individual boreholes and from the sealing edge of the enclosure so that the enclosure with fitting will be able to withstand an impact test. The spacing depends on the geometrical dimensions of the built-in components. If the enclosures are intended for outside use, then it is necessary to take measures in accordance with the intended use. This would include, for example, roofs as protection against rain or outer housings with an adequate protection. class.

5. Commissioning

Each electric apparatus for a potentially explosive area must be selected in accordance with the conditions set down for the individual type of installation. The apparatus may only be used if it is undamaged and clean. Electric plants must be examined by a qualified specialist before first commissioning and also be regularly at specific intervals. Enclosures shall be mounted horizontally over the wall or on the horizontal surface.

6. Machining Instructions

Precautions to be taken before commencing Drilling and Tapping Is drilled hole

- the correct size?
- Is proper chamfer provided on hole after drilling?
- Is a clearance between the drilled hole and the tap sufficient at the starting position to allow the tap to clear the hole upon retraction? If a blind hole is being tapped, is there sufficient chip clearance?
- Is tap sharp and of the correct design for its current application? Is the tap in proper alignment with the drilled hole?
- Is machine speed correct? Is the machine feed correct?
- Is machine stop set properly so the tap release in neutral rather than bottoming in work piece or fixture?
- Is the work piece held rigidly against rotation and upward movement?
- Is the machine stop arm rigid enough to prevent the torque arm of the tapping attachment from bending or deflecting it? The machine stop arm must always be stronger than the tap itself.
- Is the correct tapping attachment for the specific job requirements being used?
- Is the machine retraction correct for the tapping attachment being used? Is the torque control set correctly so the tap will not break if bottom is accidentally engaged?
- Is the depth control set to correspond with the machine stop to provide the total thread depth required and prevent bottoming?
- Is the correct cutting fluid and recommended concentration being used? Post machining to get Type 6P environment condition Sealing should be adequate

7. Operator Maintenance and Failure Rectification

The operator of an electric plant must keep the operating equipment in an orderly condition, operate it correctly, monitor it and do the required maintenance and repairs. Maintenance and failure rectification work may only be carried out by qualified electricians. If the type of protection is affected, only original parts should be used for replacement (e.g. lid sealing). Conformity with all applicable laws and guidelines must be ensured prior to re-commissioning. All applicable safety instructions must be observed prior to the implementation of any maintenance and/or failure rectification works.

7.1 Setup Tools

Depending on the placement and cabling of the enclosure, you may need the following tools:

Small flat-blade screwdriver Small

Phillips screwdriver

7.2 Earthing Cable

A mating earthing connector is provided with the enclosure.