ROSE+BOPLA
ENCLOSURES
A PHOENIX MECANO COMPANY

Aluform Watertight Enclosures Product Drawings Last Updated 9/29/2008

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Dimensional Drawings

Notes

Rose+Bopla's **Aluform Enclosures** are stylish, aluminum die-cast housings specifically designed for rugged electronic instrumentation applications.

Aluform Watertight Enclosures

Aluform enclosures feature an attractive beveled lid and are designed with a lower profile height than Rose+Bopla's standard 01 series housings. Internal mounting bosses in the base and lid provide convenience for component installation. New hinges, and one-piece external brackets are available as options.

An Aluform enclosure includes a powdercoat painted die-cast base and lid, captive stainless steel lid screws and a polyurethane gasket as the standard configuration. The unpainted version comes with a neoprene gasket.

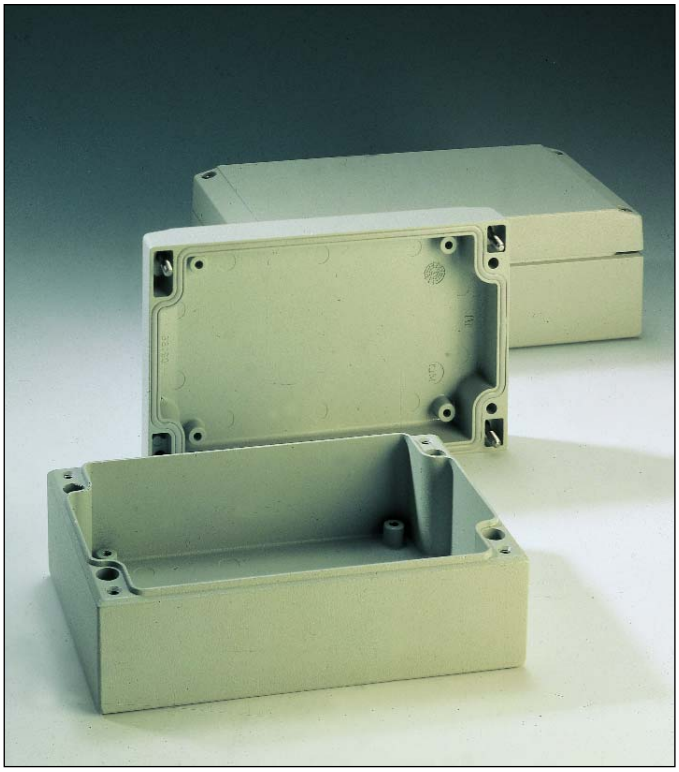
Aluform Watertight Aluminum Enclosures–Painted

Part Number	Length (Inches/mm)	Width (Inches/mm)	Height (Inches/mm)	Weight	Drawing Page #
04080808 00	3.15 / 80	3.15 / 80	3.19 / 81	0.93 lbs	17-24
04081208 00	4.72 / 120	3.15 / 80	3.19 / 81	1.15 lbs	17-25
04101006 00	3.94 / 100	3.94 / 100	2.40 / 61	1.10 lbs	17-25
04101606 00	3.94 / 100	6.30 / 160	2.40 / 61	1.54 lbs	17-26
04102006 00	3.94 / 100	7.87 / 200	2.40 / 61	1.76 lbs	17-26
04121208 00	4.72 / 120	4.72 / 120	3.19 / 81	1.48 lbs	17-27
04121608 00	4.72 / 120	6.30 / 160	3.19 / 81	1.83 lbs	17-27
04141407 00	5.51 / 140	5.51 / 140	2.80 / 71	1.76 lbs	17-28
04141807 00	8.66 / 220	5.51 / 140	2.80 / 71	1.99 lbs	17-28
04142207 00	8.66 / 220	5.51 / 140	2.80 / 71	2.43 lbs	17-29
04161608 00	6.30 / 160	6.30 / 160	3.19 / 81	2.54 lbs	17-29
04162408 00	9.45 / 240	6.30 / 160	3.19 / 81	3.20 lbs	17-30
04202007 00	7.87 / 200	7.87 / 200	2.80 / 71	2.87 lbs	17-30
04202807 00	7.87 / 200	11.02 / 280	2.80 / 71	3.31 lbs	17-31

Aluform Watertight Aluminum Enclosures–Unpainted

Part Number	Length (Inches/mm)	Width (Inches/mm)	Height (Inches/mm)	Weight	Drawing Page #
04080808 85	3.15 / 80	3.15 / 80	3.19 / 81	0.93 lbs	17-24
04081208 85	4.72 / 120	3.15 / 80	3.19 / 81	1.15 lbs	17-25
04101006 85	3.94 / 100	3.94 / 100	2.40 / 61	1.10 lbs	17-25
04101606 85	6.30 / 160	3.94 / 100	2.40 / 61	1.54 lbs	17-26
04102006 85	7.87 / 200	3.94 / 100	2.40 / 61	1.76 lbs	17-26
04121208 85	4.72 / 120	4.72 / 120	3.19 / 81	1.48 lbs	17-27
04121608 85	6.30 / 160	4.72 / 120	3.19 / 81	1.83 lbs	17-27
04141407 85	5.51 / 140	5.51 / 140	2.80 / 71	1.76 lbs	17-28
04141807 85	7.09 / 180	5.51 / 140	2.80 / 71	1.99 lbs	17-28
04142207 85	8.66 / 220	5.51 / 140	2.80 / 71	2.43 lbs	17-29
04161608 85	6.30 / 160	6.30 / 160	3.19 / 81	2.54 lbs	17-29
04162408 85	9.45 / 240	6.30 / 160	3.19 / 81	3.20 lbs	17-30
04202007 85	7.87 / 200	7.87 / 200	2.80 / 71	2.87 lbs	17-30
04202807 85	11.02 / 280	7.87 / 200	2.80 / 71	3.31 lbs	17-31

Note: Dimensions are external. Metric is the primary dimension. Inch conversions and weights are for the user's convenience and are for reference only. Accessories shown on drawing page.



TECHNICAL DATA:

- Color: Powdercoated Version–Agate Gray similar to RAL 7038. Special colors are available. See paint specifications in the Technical Information Chapter.
  Unpainted Version–Bare Aluminum.
- Material: Aluminum, AL Si 12. See Aluminum specification sheets in the Technical Information Chapter.
- Gasket Temperature Range:
  Neoprene Gasket –40°F to +212°F
  Polyurethane Foam Gasket –40°F to +194°F
  Silicone Gasket –76°F to +266°F
  RFI Gasket –40°F to +392°F
- Impact Resistance: >7Nm, EN50014
- Approvals: File #66473, UL 50, UL508
- Captive Lid Screws
- Protection Classifications:
  NEMA Types: up to Nema 4X
  IP 66, EN 60529





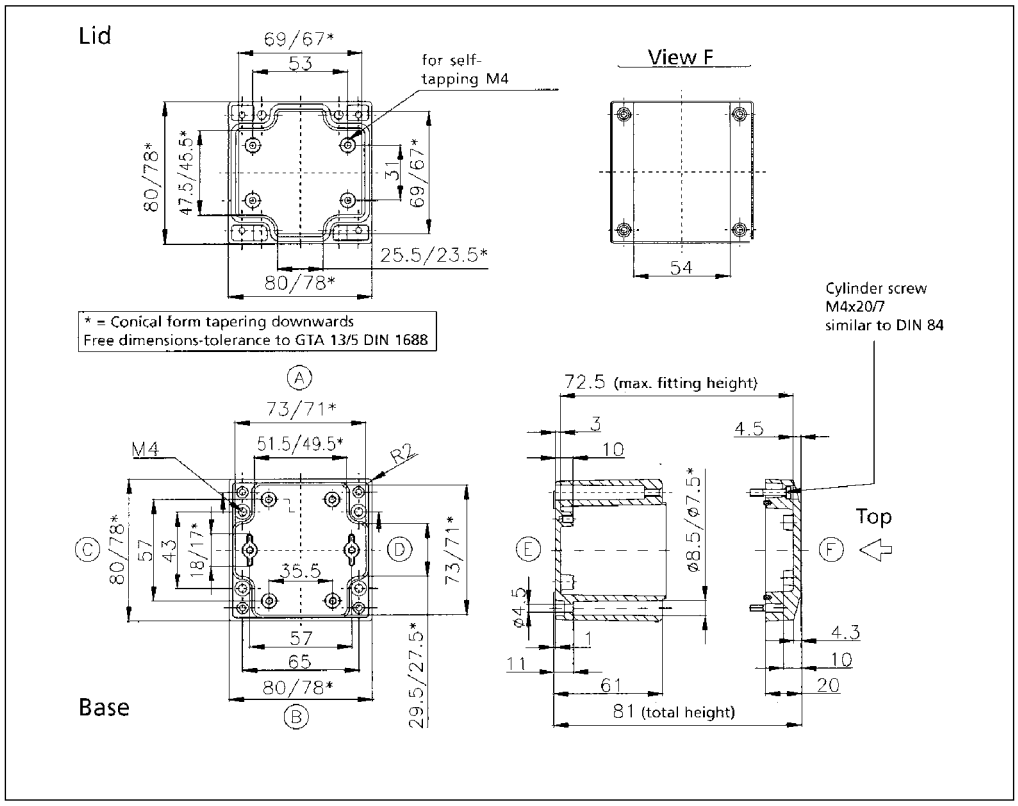
04080808 00/85 External Dimensions: L 80 x W 80 x H 81 mm Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (14" length). Polyurethane gasket for painted version.

Accessories

- **04000080 00** External Mounting Bars.
- **10011060 00** Mounting Plates.



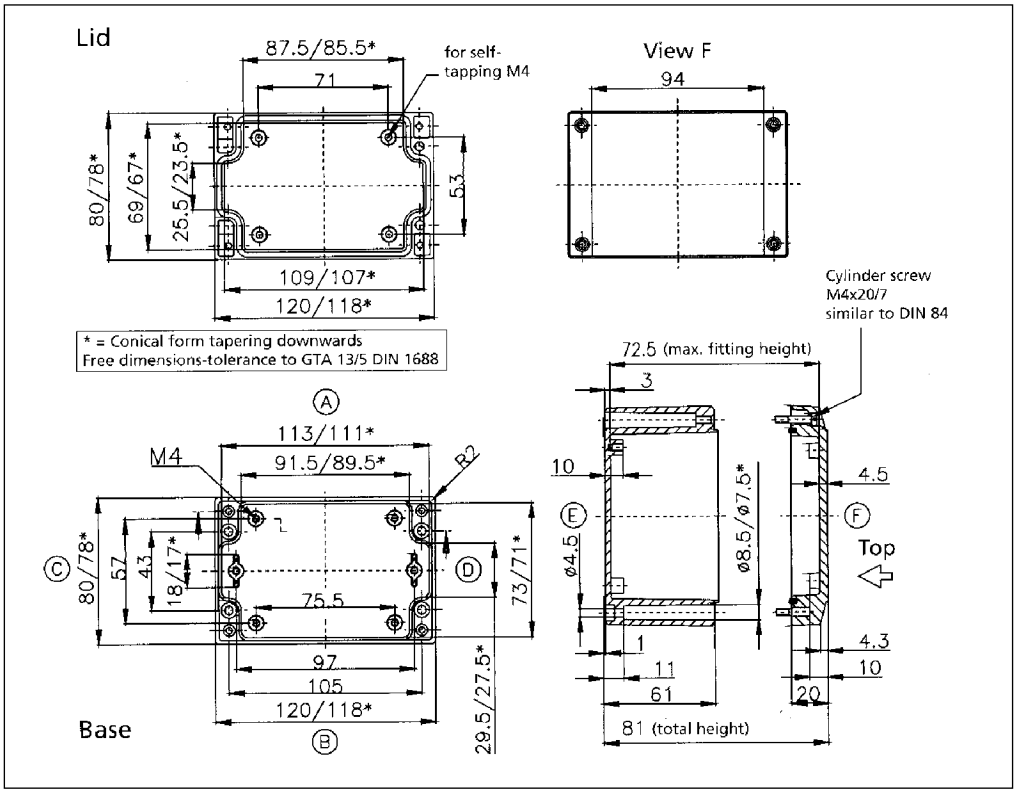
04081208 00/85 — External Dimensions: L 80 x W 120 x H 81 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.

Accessories

- **04000080 00** External Mounting Bars.
- **10011061 00** Mounting Plates.
- **04000100 00** External Mounting Brackets.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.



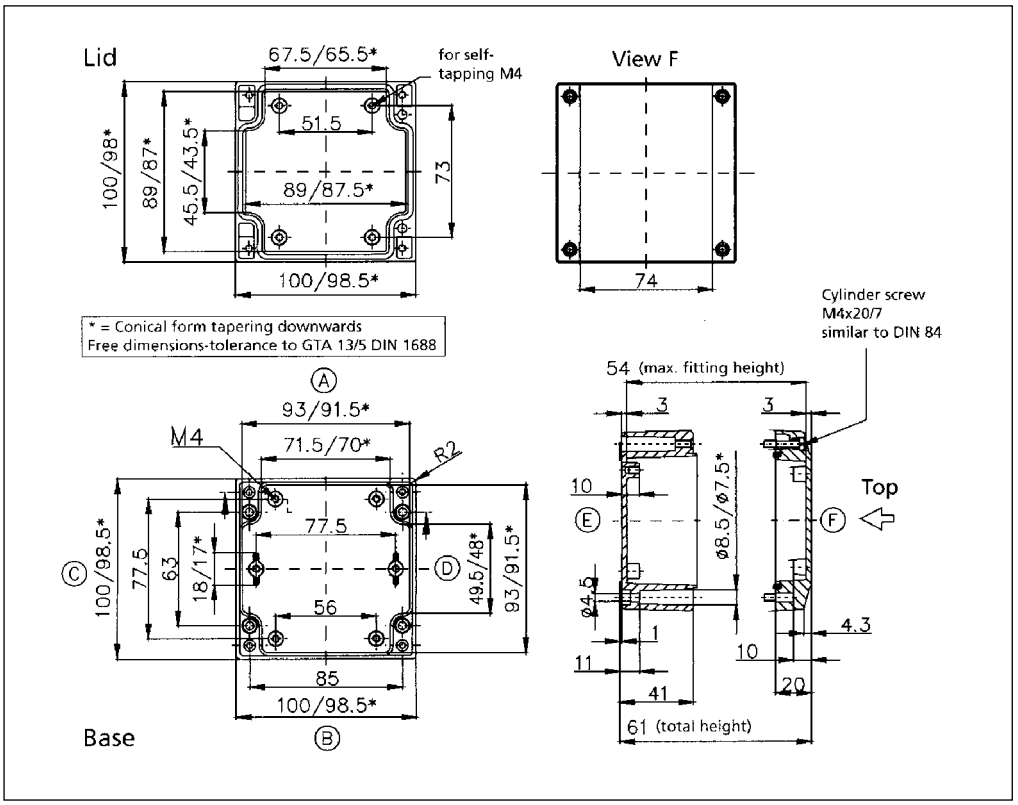
04101006 00/85 — External Dimensions: L 100 x W 100 x H 61 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (14" length). Polyurethane gasket for painted version.

Accessories

- **10011031 00** Mounting Plates.
- **10061041 00** Terminal Rail (TS 15).
- **10061471 00** Terminal Rail (TS 35).
- **04000100 00** External Mounting Brackets.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.
- **0430009 00** Enclosure holder 98mm wide.



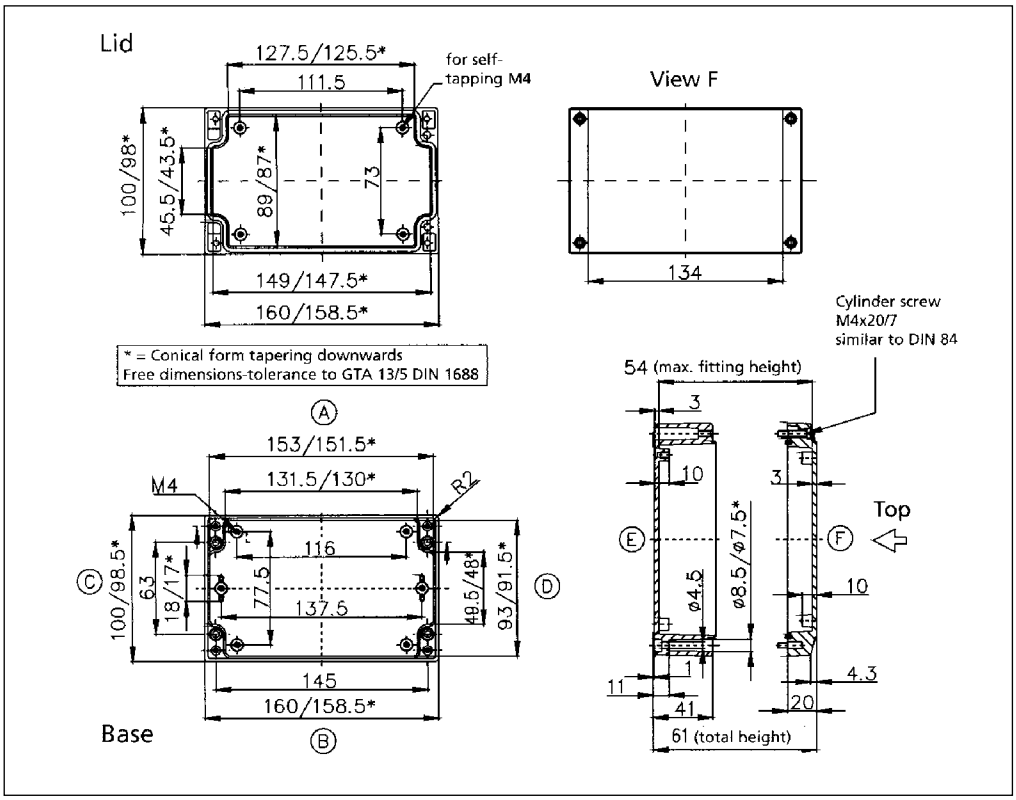
04101606 00/85 — External Dimensions: L 160 x W 100 x H 61 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.

Accessories

- **10011032 00** Mounting Plates.
- **10061042 00** Terminal Rail (TS 15).
- **10061472 00** Terminal Rail (TS 35).
- **04000100 00** External Mounting Brackets.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.
- **04300009 00** Enclosure holder 98mm wide.



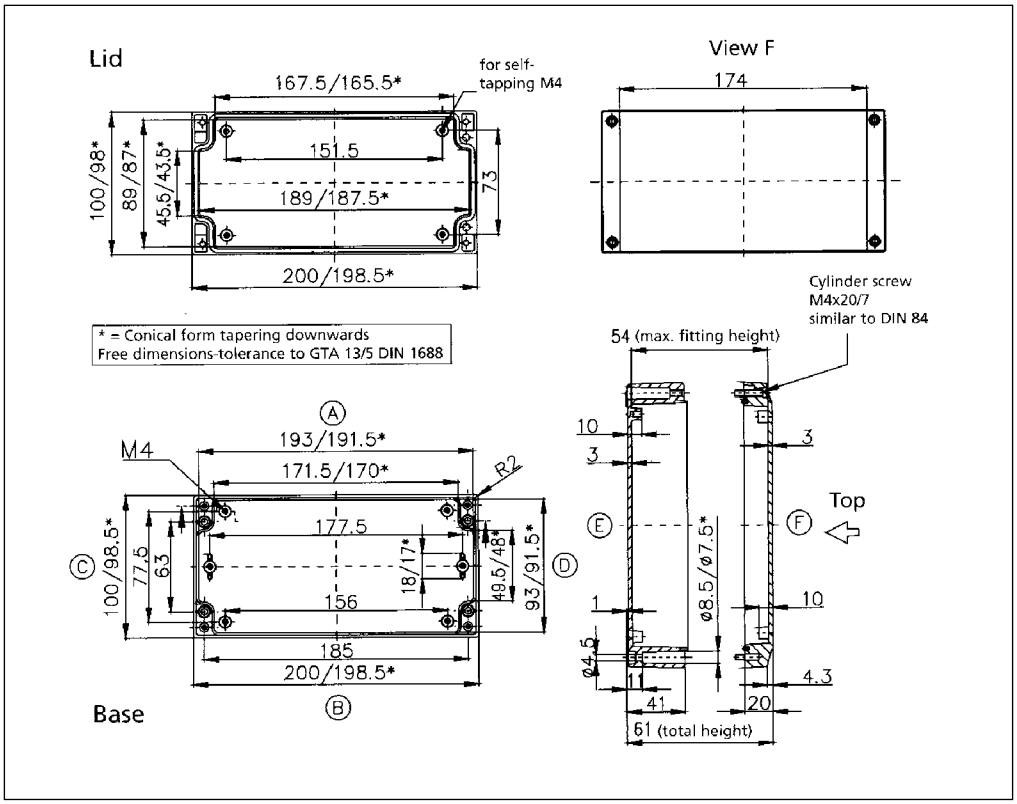
04102006 00/85 — External Dimensions: L 200 x W 100 x H 61 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (22" length). Polyurethane gasket for painted version.

Accessories

- **10011033 00** Mounting Plates.
- **10061043 00** Terminal Rail (TS 15).
- **10061473 00** Terminal Rail (TS 35).
- **04000100 00** External Mounting Brackets.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.
- **04300009 00** Enclosure holder 98mm wide.



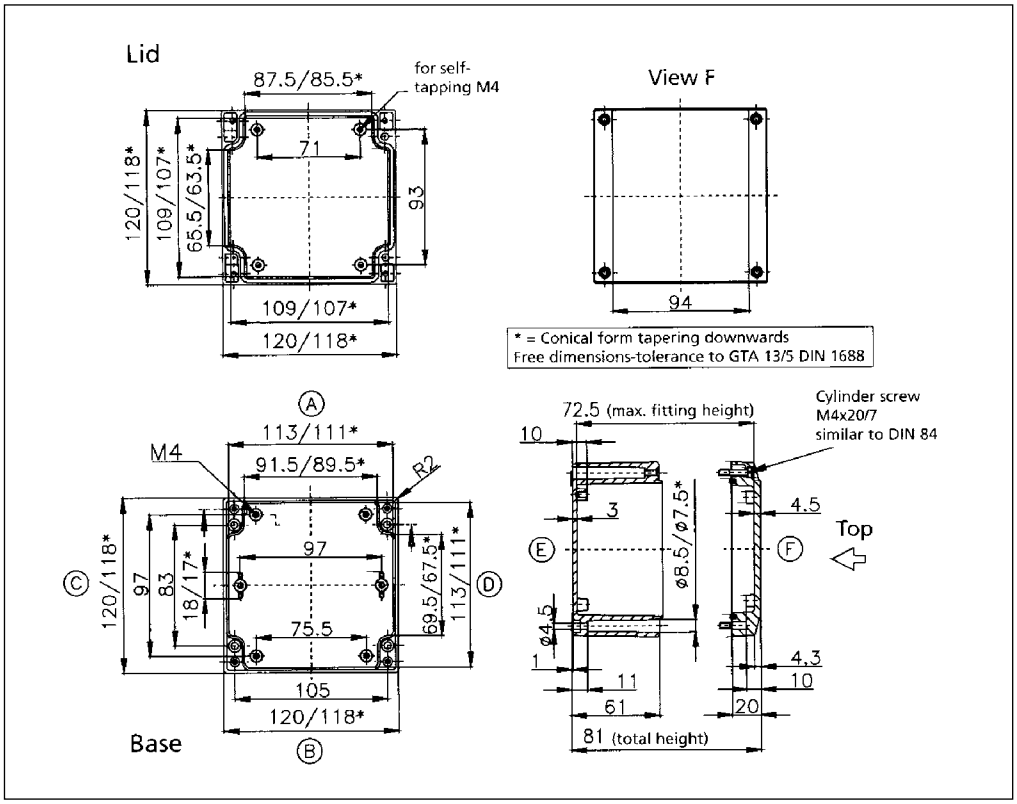
04121208 00/85 — External Dimensions: L 120 x W 160 x H 81 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.

Accessories

- **04000120 00** External Mounting Bars
- **10011062 00** Mounting Plates
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.



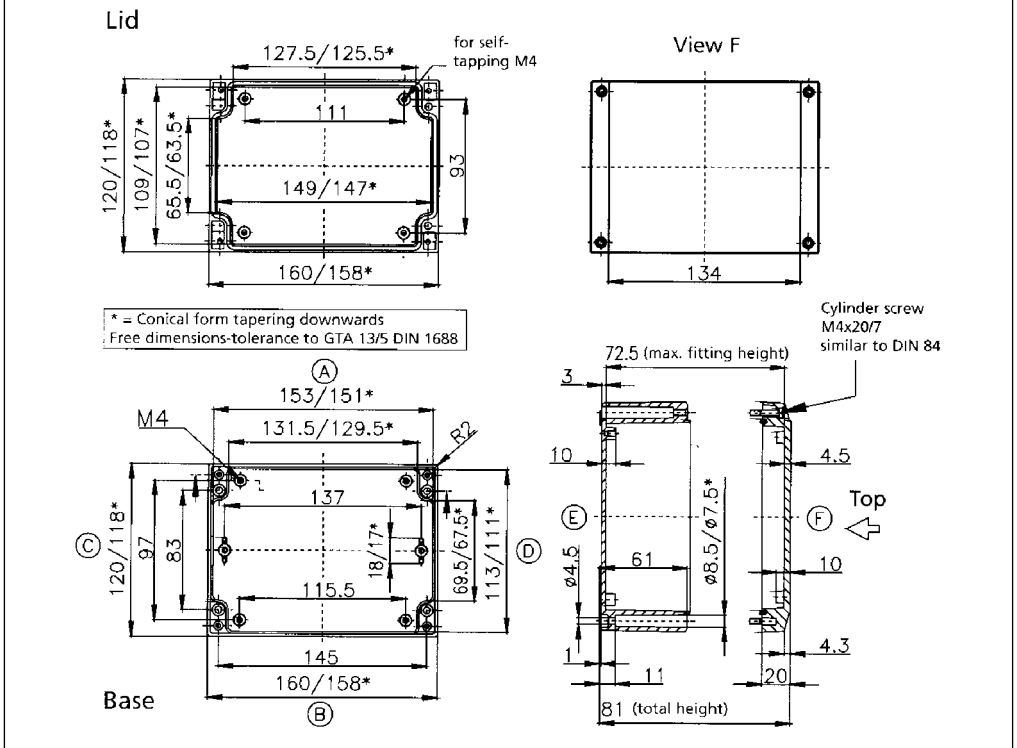
04121608 00/85 — External Dimensions: L 120 x W 160 x H 81 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.

Accessories

- **04000120 00** External Mounting Bars.
- **10011063 00** Mounting Plates.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.



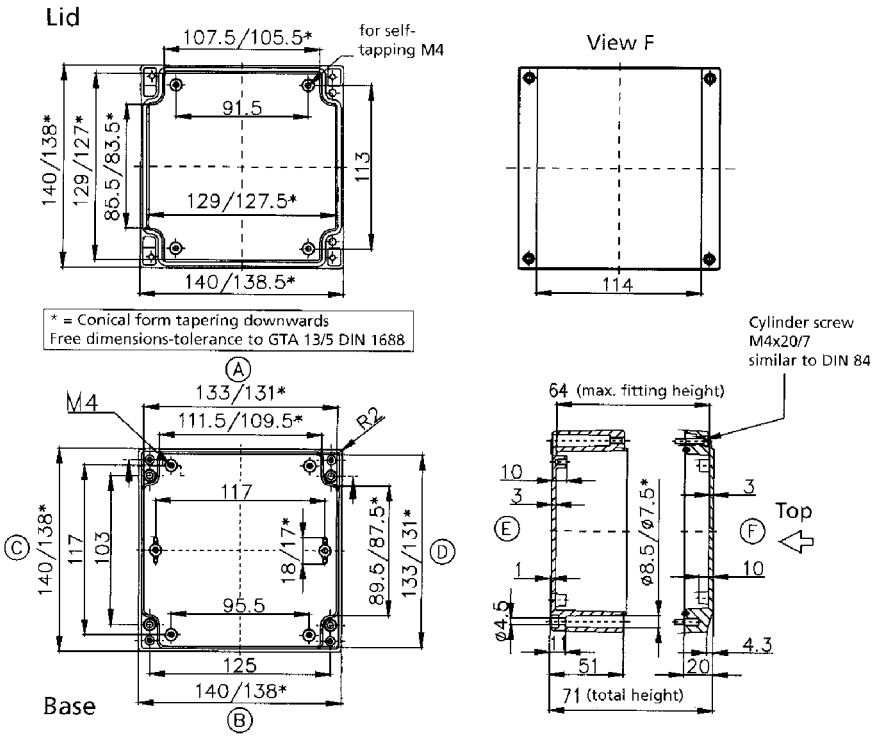
04141407 00/85 — External Dimensions: L 140 x W 140 x H 71 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.

Accessories

- **10011034 00** Mounting Plates.
- **10061044 00** Terminal Rail (TS 15).
- **10061474 00** Terminal Rail (TS 35).
- **04000140 00** External Mounting Brackets.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.
- **04300014 00** Enclosure holder 138mm wide.



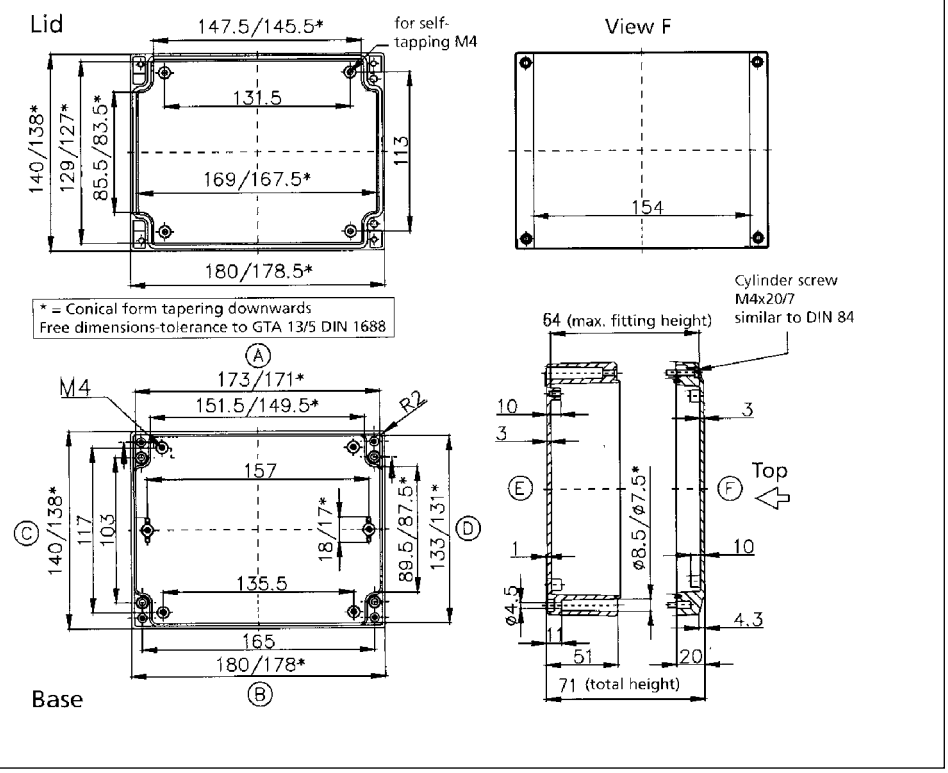
04141807 00/85 — External Dimensions: L 180 x W 140 x H 71 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (24" length). Polyurethane gasket for painted version.

Accessories

- **10011035 00** Mounting Plates.
- **10061045 00** Terminal Rail (TS 15).
- **10061475 00** Terminal Rail (TS 35).
- **04000140 00** External Mounting Brackets.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.
- **04300014 00** Enclosure holder 138mm wide.



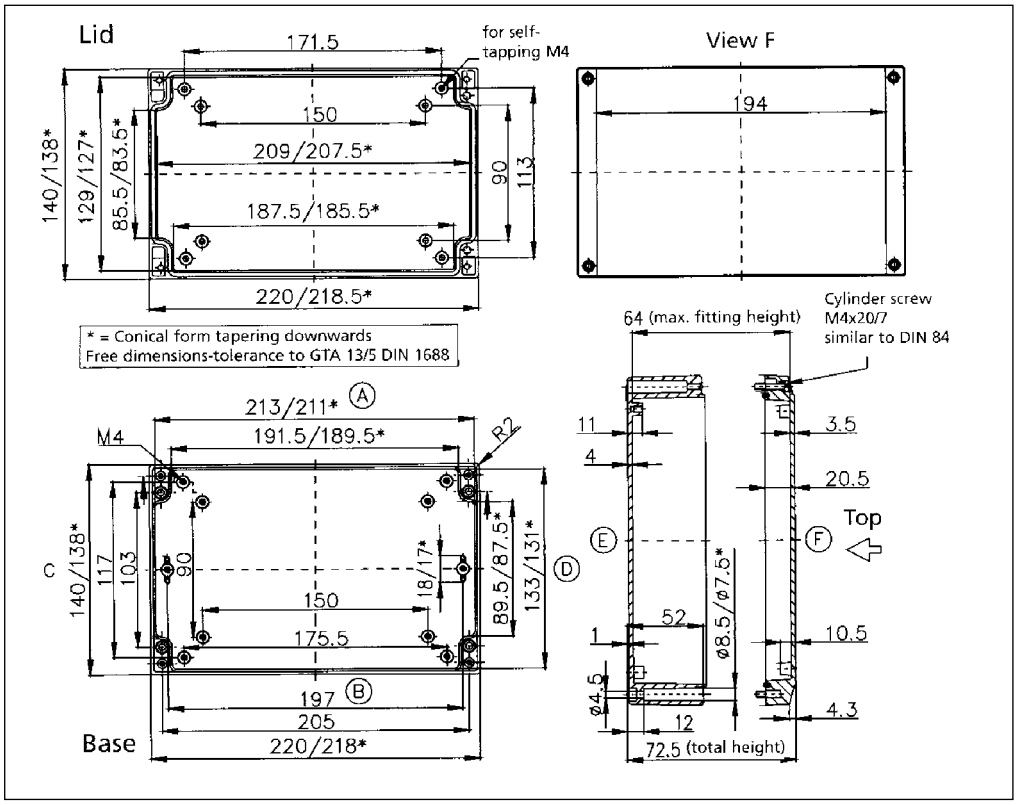
04142207 00/85 — External Dimensions: L220 x W140 x H71 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (28" length). Polyurethane gasket for painted version.

Accessories

- **10011036 00** Mounting Plates.
- **10061046 00** Terminal Rail (TS 15).
- **10061476 00** Terminal Rail (TS 35).
- **04000140 00** External Mounting Brackets.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.
- **04300014 00** Enclosure holder 138mm wide.



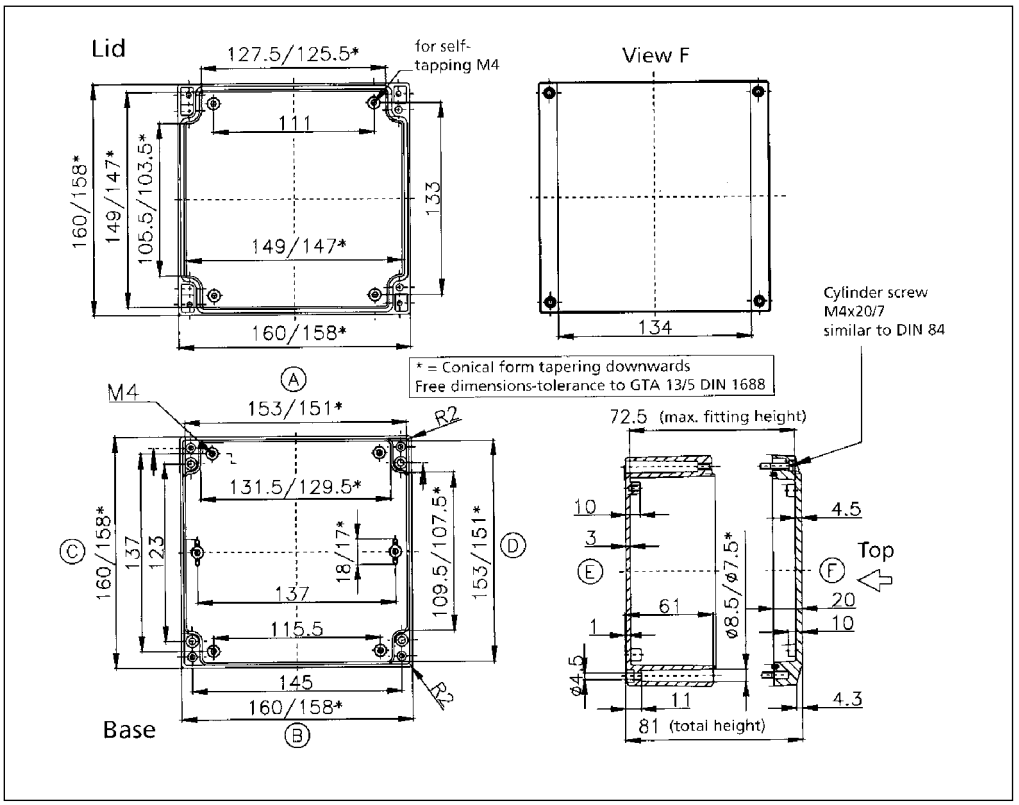
04161608 00/85 — External Dimensions: L 160 x W 160 x H 81 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (24" length). Polyurethane gasket for painted version.

Accessories

- **04000160 00** External Mounting Bars.
- **10011064 00** Mounting Plates.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.



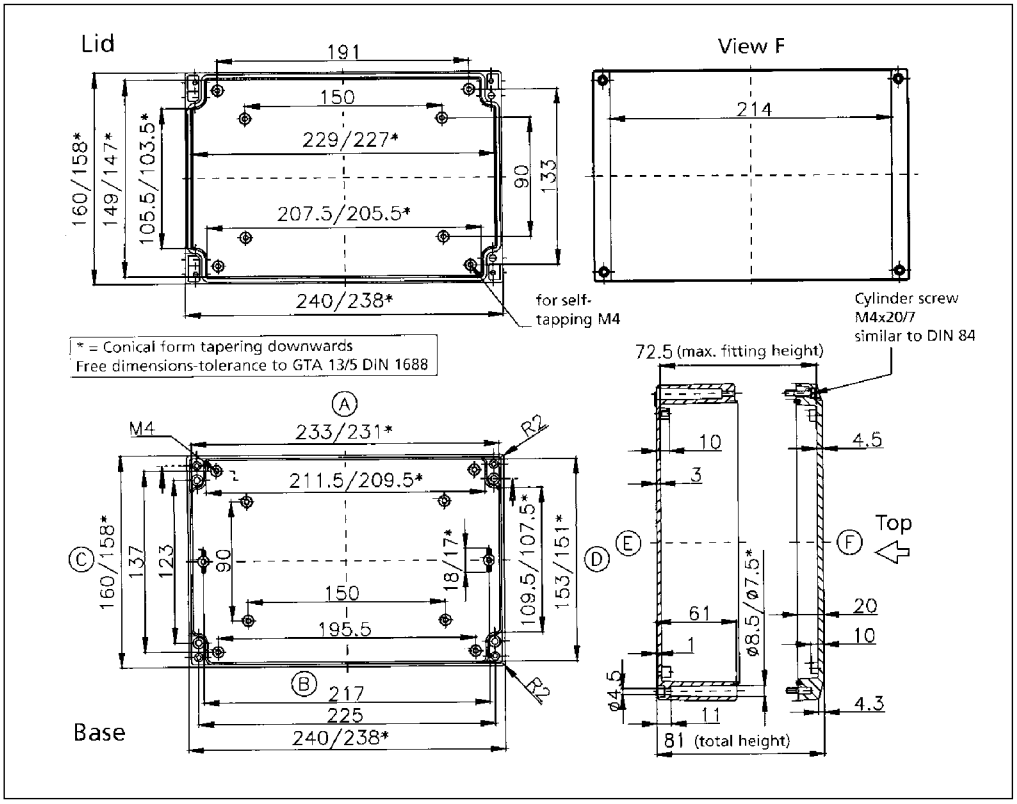
04162408 00/85 — External Dimensions: L160 x W240 x H81 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (28" length). Polyurethane gasket for painted version.

Accessories

- **04000120 00** External Mounting Bars.
- **10011065 00** Mounting Plates.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.



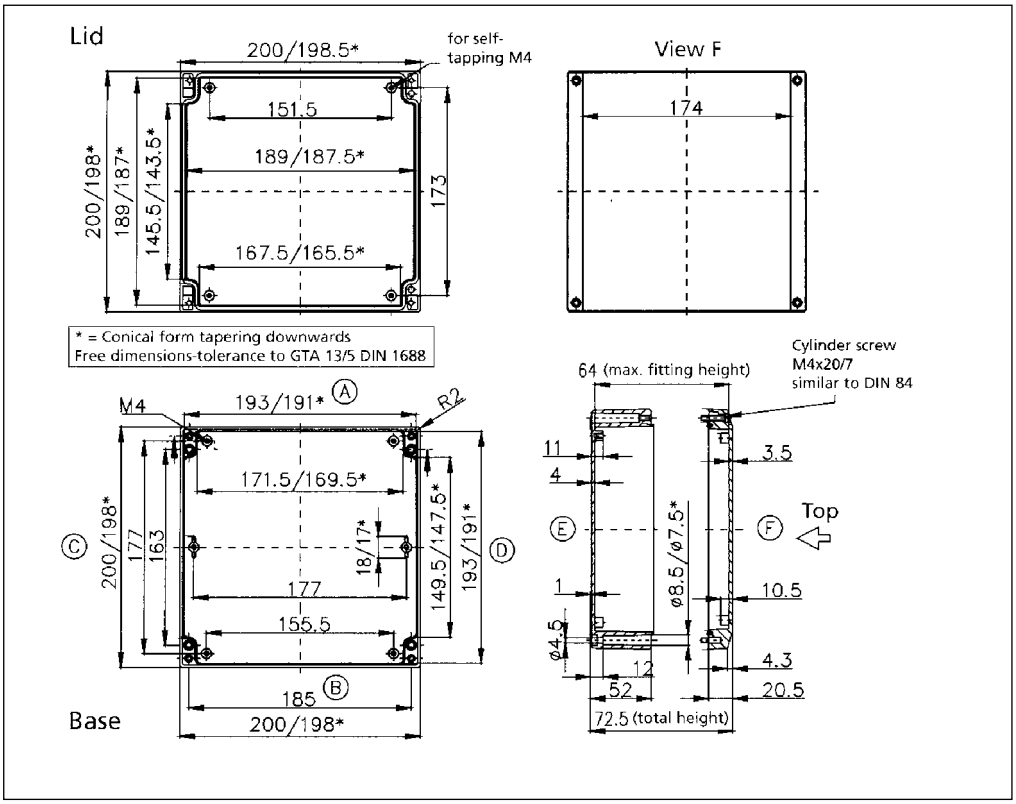
04202007 00/85 — External Dimensions: L200 x W200 x H71 mm — Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (30" length). Polyurethane gasket for painted version.

Accessories

- **10011037 00** Mounting Plates.
- **10061043 00** Terminal Rail (TS 15).
- **10061473 00** Terminal Rail (TS 35).
- **04000200 00** External Mounting Brackets.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.



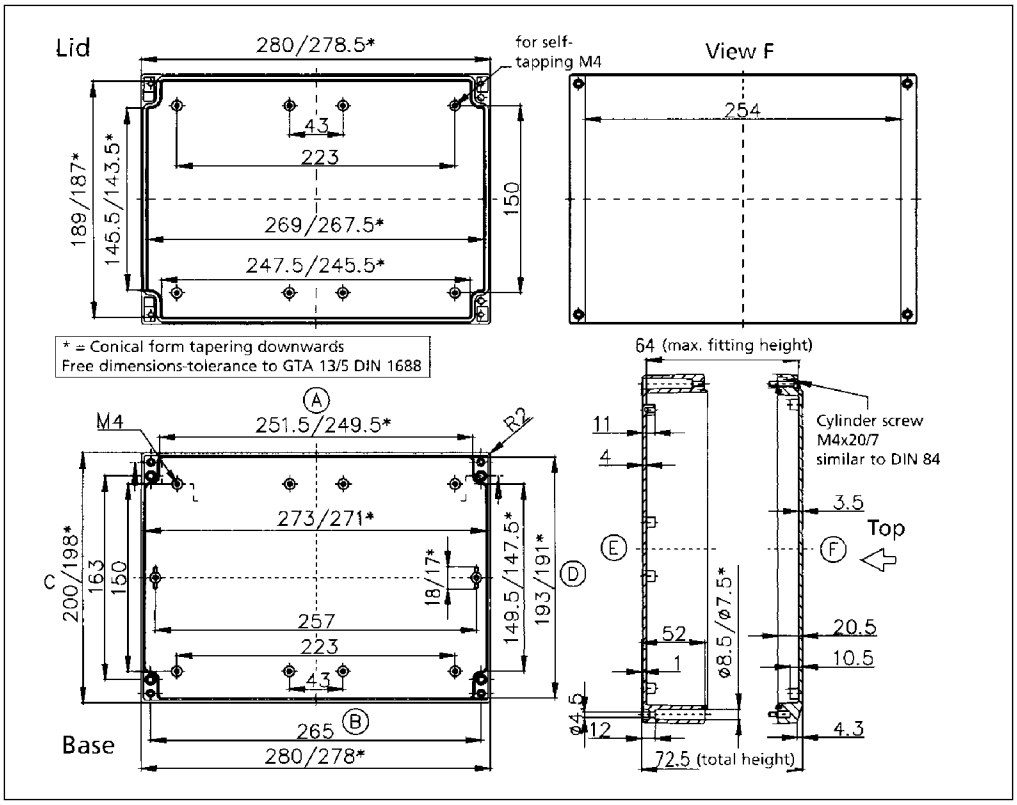
04202807 00/85 External Dimensions: L280 x W200 x H71 mm

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (33" length). Polyurethane gasket for painted version.

Accessories

- **10011059 00** Mounting Plates.
- **10061048 00** Terminal Rail (TS 15).
- **10061481 00** Terminal Rail (TS 35).
- **04000200 00** External Mounting Brackets.
- **04000010 85** Unpainted External Hinges.
- **04000010 00** Painted External Hinges.
- **10082013 00** 3.3mm Silicone gasket.
- **10082022 00** 3mm RFI gasket.



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