

Technical drawing of a WABCO EB 5002 electronic brake unit, showing various views (front, side, top, bottom, and detail views) and a performance graph.

**Graph Data:**

| Stroke (s) | Force (F) [N] | Pressure (P) [bar] |
|------------|---------------|--------------------|
| 1          | 100           | 1.0                |
| 2          | 200           | 2.0                |
| 3          | 300           | 3.0                |
| 4          | 400           | 4.0                |
| 5          | 500           | 5.0                |
| 6          | 600           | 6.0                |
| 7          | 700           | 7.0                |
| 8          | 800           | 8.0                |
| 9          | 900           | 9.0                |
| 10         | 1000          | 10.0               |
| 11         | 1100          | 11.0               |
| 12         | 1200          | 12.0               |
| 13         | 1300          | 13.0               |

**Dimensions (mm):**

- Overall width: 127
- Overall height: 86.5
- Mounting flange diameter: Ø73
- Mounting flange thickness: 4.0
- Mounting flange hole diameter: Ø50
- Mounting flange hole spacing: 57.5
- Mounting flange hole diameter: Ø63
- Mounting flange hole diameter: Ø75
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**Material / Surface Protection:**

| Material / Surface Protection | Symbol |
|-------------------------------|--------|
| I Steel S235JRH-C / Paint     | △      |
| II TPE                        | △      |
| III Al                        | △      |
| IV PA 6.6                     | △      |
| V PBT, 30% GF                 | △      |
| VI Al / Anodic Oxidation      | △      |
| VII Steel                     | △      |
| VIII Rubber (CR)              | △      |
| IX Steel / Zn-Ni              | △      |
| X CuFe2P (R420) / Ag          | △      |

**Marking of Ports:**

| Port | Marking                                         |
|------|-------------------------------------------------|
| 11   | SUPPLY VORRAT                                   |
| 12   | DELIVERY ARBEITSLEITUNG                         |
| 21   | REDUNDANCY REDUNDANZ                            |
| 22   | EXHAUST ENTLUEFTUNG                             |
| 23   | ELECTRICAL CONTROL ELEKTRISCHER STEUERANSCHLUSS |

**General Specifications:**

- Working Medium: AIR (CONTAINING WATER, OIL AND ALCOHOL) LUFT (WASSER, OEL- UND ALKOHOLHALTIG)
- Ambient Environment: AIR (CONTAINING WATER, SALT, DUST AND OIL) LUFT (WASSER, OEL- UND ALKOHOLHALTIG)
- Thermal Range of Application: -40° C ... +80° C
- Short Term Resistance to Heat: MAX. 110° C AT 1h
- Current Consumption: 0.5...11A
- Working Pressure: p<sub>g</sub> = 10 bar
- Max. Permissible Working Pressure: p<sub>g</sub> = 13 bar
- Voltage: 24V
- Degree of Protection: IP 6K 9K
- Protection Class: VDE 0580
- AT Failure EBS: 12 mm
- Necessary Stroke: S
- Necessary Force: F
- Socket: AMP MCP 2.8
- Sensitive Electronic Device: 480 020 000 0
- DO NOT TOUCH CONNECTOR CONTACTS AND RECEPTACLE CONTACTS
- Tension Free Mounting of the Lines

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
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