# DATASHEET - DX-BR100-100

**Braking resistance, IP65, 100 Ω, 0.1 kW, For use with: DC1, DA1, DG1, SVX, SPX**

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|---|---|
| **Part no.** | **DX-BR100-100** |
| | **174241** |
| **EL Number (Norway)** | **4110063** |

## General specifications

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|---|---|
| Product name | Eaton DX Braking resistor |
| Part no. | DX-BR100-100 |
| EAN | 4015081707034 |
| Product Length/Depth | 150 millimetre |
| Product height | 20 millimetre |
| Product width | 85 millimetre |
| Product weight | 0.28 kilogram |
| Certifications | C22.2<br>UL508<br>UL Category Control No.: NMTR2, NMTR8<br>Certified by UL for use in Canada<br>UL File No.: E300273<br>UL<br>UL report applies to both US and Canada |
| Product Tradename | DX |
| Product Type | Accessory |
| Product Sub Type | Braking resistor |

## Features & Functions

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|---|---|
| Fitted with: | Connection cables (approx. 0.5 m)<br>Temperature monitoring switch |

## General information

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|---|---|
| Accessory/spare part type | Breaking resistance |
| Degree of protection | IP65<br>IP00 |
| Product Category | Accessories |
| Suitable for | Branch circuits, (UL/CSA) |
| Type | Wire wound resistor in ceramic potting compound inside aluminum case |
| Used with | DM1<br>DG1<br>DC1<br>DA1 |

## Electrical rating

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|---|---|
| Voltage rating - max | 1000 V |

## Design verification

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| 10.2.2 Corrosion resistance | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | Meets the product standard's requirements. |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | Meets the product standard's requirements. |
| 10.2.5 Lifting | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | Meets the product standard's requirements. |
| 10.3 Degree of protection of assemblies | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | Is the panel builder's responsibility. |
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |

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|---|---|---|---|
| 10.9.4 Testing of enclosures made of insulating material | | | Is the panel builder's responsibility. |
| 10.10 Temperature rise | | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

## Technical data ETIM 9.0

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|---|---|---|---|
| Low-voltage industrial components (EG000017) / Accessories/spare parts for frequency controller (EC002025) | | | |
| Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter (accessories) (ecl@ss13-27-02-31-92 [AFR303008]) | | | |
| Type of accessory/spare part | | | Breaking resistance |
| Accessory | | | Yes |
| Spare part | | | No |


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