

## External braking resistor for PowerXL variable frequency drives with 50 ohms and 960 W

**Part no.** DX-BR050-960  
**Article no.** 174250  
**Catalog No.** DX-BR050-960

### Delivery program

|                           |                 |    |                                                                                                  |
|---------------------------|-----------------|----|--------------------------------------------------------------------------------------------------|
| Product range             |                 |    | Accessories                                                                                      |
| Accessories               |                 |    | Braking resistances                                                                              |
| Degree of Protection      |                 |    | IP20                                                                                             |
| For use with              |                 |    | DC1, DA1, DG1, SVX, SPX                                                                          |
| Description               |                 |    | Resistor combination (size 1)<br>with temperature monitoring switch<br>with connection terminals |
| Resistance value          | R               | Ω  | 50                                                                                               |
| Continuous braking rating | P <sub>DB</sub> | kW | 0.96                                                                                             |

### Design verification as per IEC/EN 61439

|                                                                                                                        |  |  |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------|
| IEC/EN 61439 design verification                                                                                       |  |  |                                                                                                                                  |
| 10.2 Strength of materials and parts                                                                                   |  |  |                                                                                                                                  |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties                                                                                             |  |  |                                                                                                                                  |
| 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.                                                                                           |
| 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.                         |

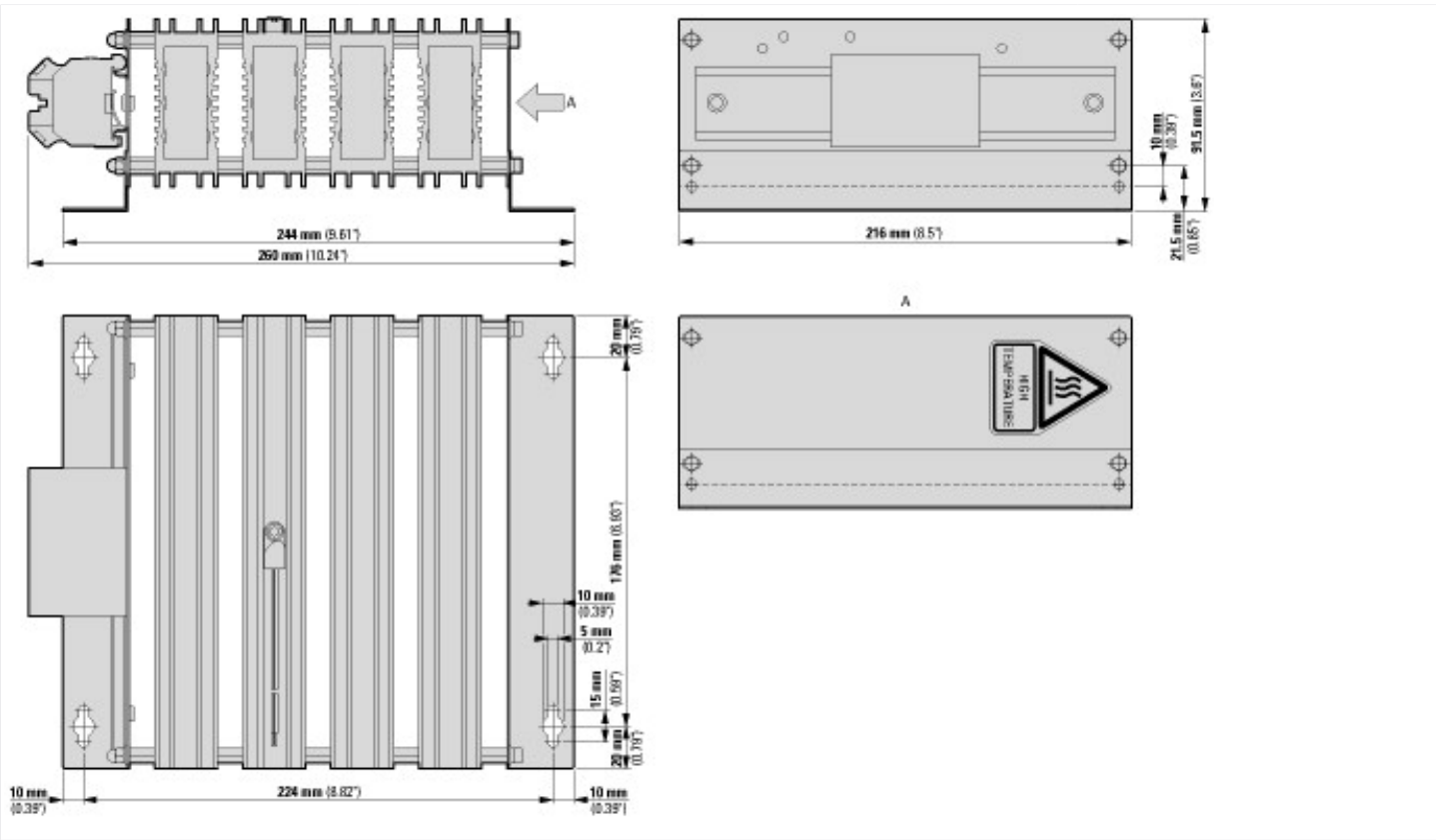
### Technical data ETIM 6.0

|                                                                                                                                                                                            |  |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|
| Low-voltage industrial components (EG000017) / Accessories for frequency controller (EC002025)                                                                                             |  |                    |
| Electric engineering, automation, process control engineering / Electrical drive / Electrical drive (accessories) / Frequency controller (accessories) (ecl@ss8.1-27-02-92-01 [ACN127008]) |  |                    |
| Type of accessory                                                                                                                                                                          |  | Braking resistance |

### Approvals

|                             |  |                            |
|-----------------------------|--|----------------------------|
| North America Certification |  | Single parts approved only |
|-----------------------------|--|----------------------------|

Dimensions



Additional product information (links)

IL040021ZU Braking Resistor

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[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL040021ZU2014\\_04.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL040021ZU2014_04.pdf)

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