



Braking resistance, IP20, 6 Ω, 5.1 kW, For use with: DC1, DA1, DL1, DG1, SVX, SPX



Part no. DX-BR006-5K1
Catalog No. 171913
Alternate Catalog No. DX-BR006-5K1

Delivery program

| | | |
|---------------------------|-----------------|---|
| Product range | | Accessories |
| Accessories | | Braking resistances |
| Degree of Protection | | IP20 |
| For use with | | DC1, DA1, DL1, DG1, SVX, SPX |
| Description | | Steel grid resistor, combined Installed in a housing designed to prevent accidental contact and featuring a temperature monitoring switch and internal connection terminals/terminal bolts |
| Resistance value | R | Ω |
| Continuous braking rating | P _{DB} | kW |
| | | 6 |
| | | 5.1 |

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 7.0

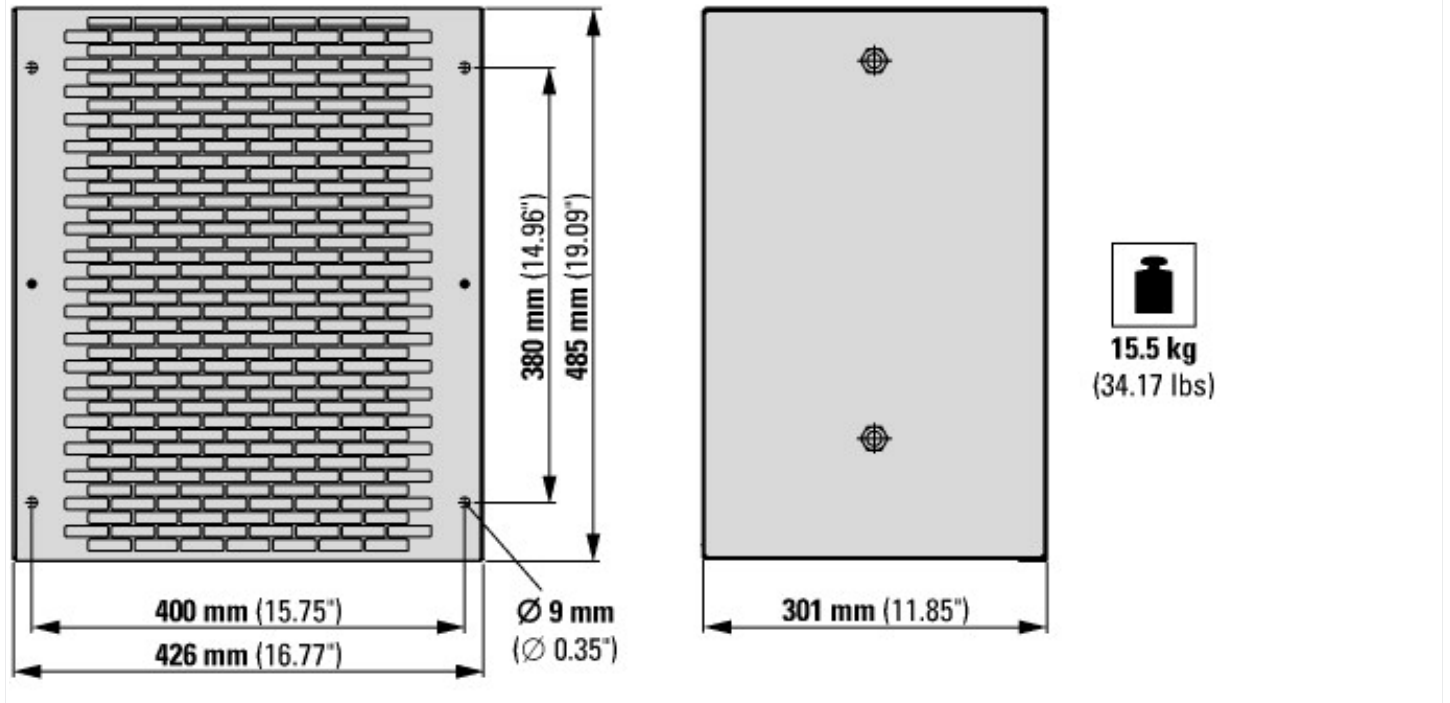
| | | |
|---|--|--------------------|
| Low-voltage industrial components (EG000017) / Accessories for frequency controller (EC002025) | | |
| Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter (accessory) (ecl@ss10.0.1-27-02-31-92 [AFR303003]) | | |
| Type of accessory | | Braking resistance |

Approvals

| | | |
|-------------------|--|--------------|
| Product Standards | | UL508; C22.2 |
|-------------------|--|--------------|

| | | |
|-----------------------------|--|--|
| UL File No. | | E300273 |
| UL Category Control No. | | NMTR2, NMTR8 |
| CSA File No. | | UL report applies to both US and Canada |
| North America Certification | | UL listed, certified by UL for use in Canada |
| Suitable for | | Branch circuits |
| Max. Voltage Rating | | 1000 |
| Degree of Protection | | IEC: IP00 |

Dimensions



Assets (links)

Declaration of CE Conformity

00003137

Instruction Leaflets

IL040011ZU2018_04

Additional product information (links)

IL040011ZU Braking Resistor

IL040011ZU Braking Resistor

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL040011ZU2018_04.pdf

CA04020001Z-EN Product Range Catalog:
Efficient Engineering for Starting and
Controlling Motors

http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238.pdf