DATASHEET - DX-BR040-5K1



Braking resistance, IP20, 40 $\Omega,$ 5.1 kW, For use with: DC1, DA1, DL1, DG1, SVX, SPX



Part no. DX-BR040-5K1
Catalog No. 171899
Alternate Catalog DX-BR040-5K1
No.

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|-----|--------|-------|-------|
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| 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 | 40 |
| Continuous braking rating | P_{DB} | kW | 5.1 |

Design verification as per IEC/EN 61439

| EC/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 b observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must b 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])

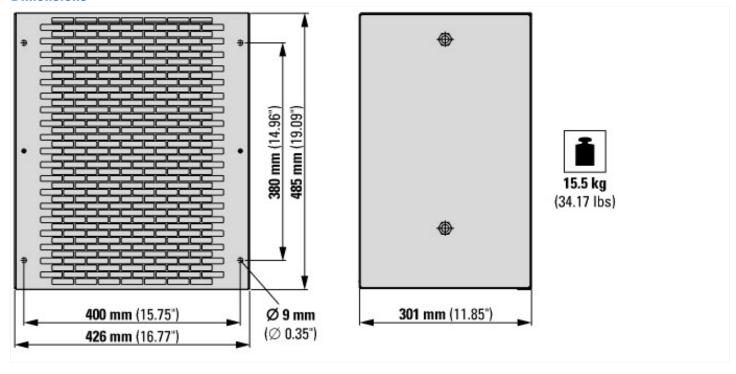
Type of accessory Breaking resistance

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 |