DATASHEET - DX-BR050-3K1

Braking resistance, IP20, 50 Ω, 3.1 kW, For use with: DC1, DA1, DL1, DG1, SVX, SPX

Part no. **DX-BR050-3K1**
171918

General specifications

Product name	Eaton DX Braking resistor
Part no.	DX-BR050-3K1
EAN	4015081684175
Product Length/Depth	310 millimetre
Product height	450 millimetre
Product width	330 millimetre
Product weight	12 kilogram
Certifications	Certified by UL for use in Canada UL508 UL File No.: E300273 UL report applies to both US and Canada UL C22.2 UL Category Control No.: NMTR2, NMTR8
Product Tradename	DX
Product Type	Accessory
Product Sub Type	Braking resistor
Catalog Notes	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

General information

Accessory/spare part type	Breaking resistance
Degree of protection	IP00 IP20
Product Category	Accessories
Suitable for	Branch circuits, (UL/CSA)
Used with	DM1 DG1 DC1 DA1

Electrical rating

Voltage rating - max	1000 V

Design verification

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.
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

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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