



Industrial breaktor DC, 750 V DC, 250 A, 1.6 kA, DC operation

Part no. **IBDC7D-250/1,6**
EP-401502

General specifications		
Product name		Eaton industrial breaktor DC
Part no.		IBDC7D-250/1,6
EAN		4015082970567
Product Length/Depth		182.8 millimetre
Product height		82.9 millimetre
Product width		135.6 millimetre
Product weight		1.823 kilogram
Certifications		CE
Product Tradename		None
Product Type		Industrial breaktor DC
Product Sub Type		None
PDH Status		Active
Public Consumption		Yes
Product Family Description		ES-PMCC-ICP-Eaton industrial breaktor DC
Globally Marketable		Yes
General information		
Degree of protection		IP00
Electromagnetic compatibility		Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional noise suppression.
Lifespan, mechanical		500,000 Operations
Number of poles		Double-pole
Overvoltage category		III
Pollution degree		3
Protection		Back-of-hand proof with terminal shroud
Rated impulse withstand voltage (Uimp)		8000 V DC
Voltage type		DC
Climatic environmental conditions		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		60 °C
Ambient storage temperature - min		-40 °C
Ambient storage temperature - max		80 °C
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities		
Terminal capacity (busbar)		28 mm width, Main connection
Terminal capacity (flexible with cable lug)		max. 120 mm ²
Terminal capacity (solid/stranded AWG)		2/0 - 250 MCM, Main cables
Terminal capacity (stranded with cable lug)		max. 120 mm ²
Screw size		M6, Terminal screw, Main cables
Screwdriver size		5 mm, hexagon socket-head, Terminal screw, Main cables
Tightening torque		8.2 Nm, Main cable connection screw/bolt
Electrical rating		
Rated insulation voltage (Ui) at DC		800 V DC
Rated making capacity (cos phi to IEC/EN 60947)		375
Rated operational voltage (Ue) at DC - max		750 V DC
Rated operational current (Ie) at DC-1, 1000 V		250
Short-circuit protection rating		1.6 kA without fuse, 25 kA with 250 A gR 1000 V DC Fuse, Type "2" coordination

Safe isolation		750 V DC, Between control inputs and main contacts, According to EN 61140 750 V DC, Between auxiliary contacts and main contacts, According to EN 61140
Magnet system		
Pick-up voltage		0.7 - 1.15 V DC x Us
Rated control supply voltage (Us) at DC - min		17 V DC
Rated control supply voltage (Us) at DC - max		26.4 V DC
Rated control voltage (Uc)		17 - 26.4 V DC 24 V DC
Contacts		
Number of auxiliary contacts (normally closed contacts)		1
Number of auxiliary contacts (normally open contacts)		0
Number of main contacts (normally open contact)		2
Design verification		
Rated operational current for specified heat dissipation (In)		250
Static heat dissipation, non-current-dependent Pvs		9.6 W