

# Specifications

Photo is representative

## Eaton DM1-34031NB-S20S

Eaton PowerXL DM1 micro variable frequency drive, Three-phase, 400 V, 31 A, Internal brake chopper, Multi segment LCD display, IP20, ST0 SIL2 and ethernet I/P, Modbus TCP onboard

### General specifications

<b>PRODUCT NAME</b>	Eaton PowerXL DM1 micro variable frequency drive
<b>CATALOG NUMBER</b>	DM1-34031NB-S20S
<b>UPC</b>	786689349745
<b>PRODUCT LENGTH/DEPTH</b>	7.68 in
<b>PRODUCT HEIGHT</b>	10.7 in
<b>PRODUCT WIDTH</b>	7.24 in
<b>PRODUCT WEIGHT</b>	13.9 lb
<b>CERTIFICATIONS</b>	UL Listed



Powering Business Worldwide

## Product specifications

**BRAKE CHOPPER** Internal brake chopper

**SERIES** DM1

**DRIVE TYPE** General purpose

**FRAME SIZE** FR4

**ENCLOSURE RATING** IP00

**INPUT PHASES** Three-phase

**OUTPUT PHASES** Three-phase

**ELECTROMAGNETIC  
COMPATIBILITY FILTER** No

**INTERNAL CHOKE** No

**INTERNAL LINE REACTOR** No

**AMBIENT OPERATING  
TEMPERATURE RANGE**

- -10 to 50 °C CT
- -10 to 40 °C VT

**CONFORMAL COATED  
BOARDS** Yes

**USER INTERFACE** Multi-segment

**INPUT VOLTAGE RANGE** 380-480 Vac

**INPUT FREQUENCY  
RANGE** 50-60 Hz

**OUTPUT FREQUENCY  
RANGE** 0-400 Hz

**MAX OVERLOAD** 200 %

**FUSE SIZE - MAX** 70

**MOUNTING TYPE** Panel mount

**DIGITAL INPUTS** 4

**ANALOG INPUTS** 1

**RELAY OUTPUTS** 2

**DIGITAL OUTPUTS** 0

**HIGH OVERLOAD (CT) HP** 20

**HIGH OVERLOAD (CT) KW** 15

**LOW OVERLOAD (VT) KW** 18.5

**LOW OVERLOAD (VT)  
AMPS** 38

**HIGH OVERLOAD (CT)  
AMPS** 31

**LOW OVERLOAD (VT) HP** 25

**COMMUNICATIONS  
ONBOARD** Modbus RTU  
Modbus TCP  
Ethernet/IP  
BACnet IP  
BACnet MS/TP  
Bluetooth

## Resources

**SPECIFICATIONS AND  
DATASHEETS**

[Eaton Specification Sheet -  
DM1-34031NB-S20S](#)

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<b>COMMUNICATIONS OPTIONAL</b>	CANopen PROFIBUS SmartWireDT
<b>MOTOR CONTROL MODES</b>	V/Hz Open loop vector control
<b>MOTOR TYPE</b>	Induction Induction motor Permanent magnet motor (SPM/IPM)

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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