



Expansion for DA1 variable frequency drives (Local IN)

**Part no.** DXA-EXT-ENCOD  
**Catalog No.** 169035  
**Alternate Catalog No.** DXA-EXT-ENCOD  
**EL-Nummer (Norway)** 4137439

**Delivery program**

Subrange		Encoder module
Description		2-channel max. 500 kHz 5 V TTL, A & B, /A & /B, 5 V DC, max. 200 mA 24 V HTL, A & B, /A & /B, 24 V DC, external power supply required, max. 30 V DC
For use with		DA1
Connection technique		Plug-in module with plug-in terminal block, 5 pole

**Design verification as per IEC/EN 61439**

Technical data for design verification		
Operating ambient temperature min.	°C	-10
Operating ambient temperature max.	°C	50
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**

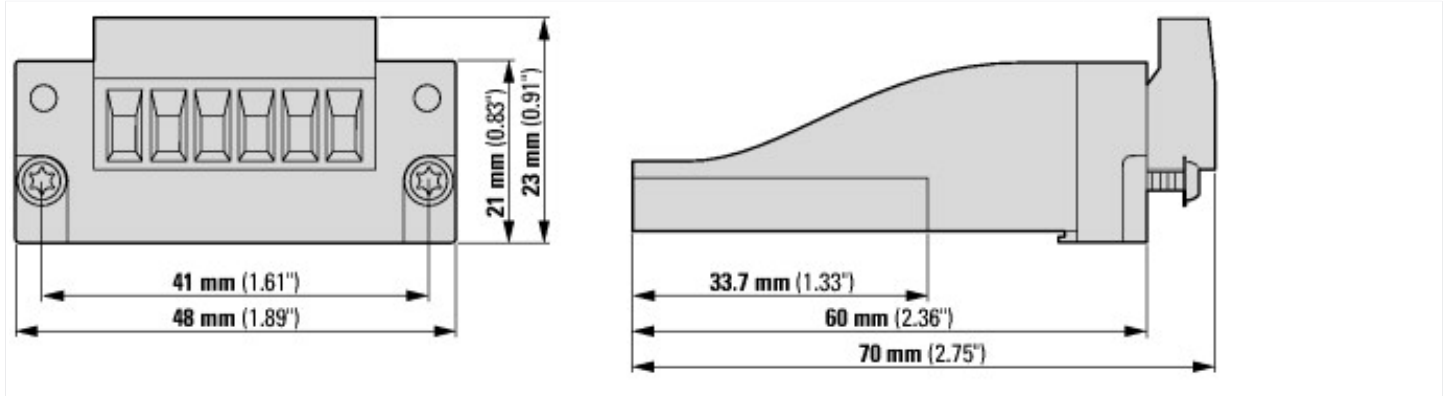
Low-voltage industrial components (EG000017) / Accessories for frequency controller (EC002025)		
Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter (accessory) (ecl@ss10.0.1-27-02-31-92 [AFR303003])		
Type of accessory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

**Approvals**

Product Standards		UL 508C; CSA-C22.2 No. 14; IEC/EN61800-3; IEC/EN61800-5; CE marking
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UL File No.		E172143
UL Category Control No.		NMMS, NMMS7
CSA File No.		UL report applies to both US and Canada
North America Certification		UL listed, certified by UL for use in Canada
Specially designed for North America		No
Suitable for		Branch circuits
Degree of Protection		IEC: IP00

## Dimensions



## Assets (links)

### Declaration of CE Conformity

00003239

### Instruction Leaflets

IL04012013Z2018\_05

### Manuals

MN04020005Z\_EN (English)

## Additional product information (links)

### IL04012013Z Expansion module for DA1: Encoder module

IL04012013Z Expansion module for DA1: Encoder module [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL04012013Z2018\\_05.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04012013Z2018_05.pdf)

### MN04020005Z DA1 variable frequency drives, Installation manual

MN04020005Z Frequenzumrichter DA1, Installationshandbuch - Deutsch [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020005Z\\_DE.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_DE.pdf)

MN04020005Z DA1 variable frequency drives, Installation manual - English [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020005Z\\_EN.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_EN.pdf)

MN04020005Z Convertitore di frequenza DA1, manuale Installazione - italiano [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020005Z\\_IT.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020005Z_IT.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](http://www.eaton.eu/DE/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_1095238.pdf)