DATASHEET - IKA-1/4-ST



IKA professional distribution board, IP65 + clamps

Part no.	**IKA-1/4-ST**
Catalog No.	**174221**
Alternate Catalog No.	**IKA-1/4-ST**
EL-Nummer (Norway)	**1702955**

Powering Business Worldwide

Delivery program

Basic function			Basic device
Product function			Installation distribution boards
Product range			IKA professional DBO
Design			Surface mounted
Installation site			Indoor
Type of installation			Surface mounting
Door/Flap			Transparent
Degree of Protection			IP65
Colour			Grey
Module rack			Single-rail
Shroud for protection against accidental contact			Plastic
Rows	Count		1
Module units per row			4
Description			IP65 Protection Class II Plastic enclosure gray (RAL 7035)
Cable entries			Metric cable entries on top and bottom, back plate
PE and N terminals design			Screw terminals
PE and N terminals	Number x cross-sectional area	mm^2	PE: 2 x (2.5 - 6) + 2 x (4 - 10) + 1 x (16 - 35) N: 2 x (2.5 - 6) + 2 x (4 - 10) + 1 x (16 - 35)
Equipment supplied			Basic device Device support rails Neutral-/protective conductor terminal Locking screws can be sealed Sealing caps Current circuit designation Reserve section cover 6 space units

Technical data

General

Standards			EN 62208, IEC/EN 60670-24
RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council)			conform
Ambient temperature		°C	-25 - +40
Degree of Protection			IP65
Protection class			II (totally insulated)
Rated operational voltage	Ue	V AC	415
Rated frequency	f	Hz	50
Insulation voltage			
AC		V AC	1000
DC		V DC	1500

Material characteristics

Material			ABS (plastic)
Colour			Gray (RAL 7035)

Material properties

Mechanical			
Impact resistance			IK08

Design verification as per IEC/EN 61439

Technical data for design verification			

Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure for wall mounting	P_V	W	11
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure for wall mounting	P_V	W	22
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			650 °C; meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Not relevant to indoor installations.
10.2.5 Lifting			Does not apply to enclosures without lifting aids.
10.2.6 Mechanical impact			IK08
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			IP65
10.4 Clearances and creepage distances			Is the panel builder's responsibility.
10.5 Protection against electric shock			Protection class 2, therefore not applicable.
10.6 Incorporation of switching devices and components			Is the panel builder's responsibility.
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			U_i = 1000 V AC
10.9.3 Impulse withstand voltage			3.3 kV
10.9.4 Testing of enclosures made of insulating material			Meets the product standard's requirements.
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.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.
10.13 Mechanical function			Meets the product standard's requirements.

Technical data ETIM 7.0

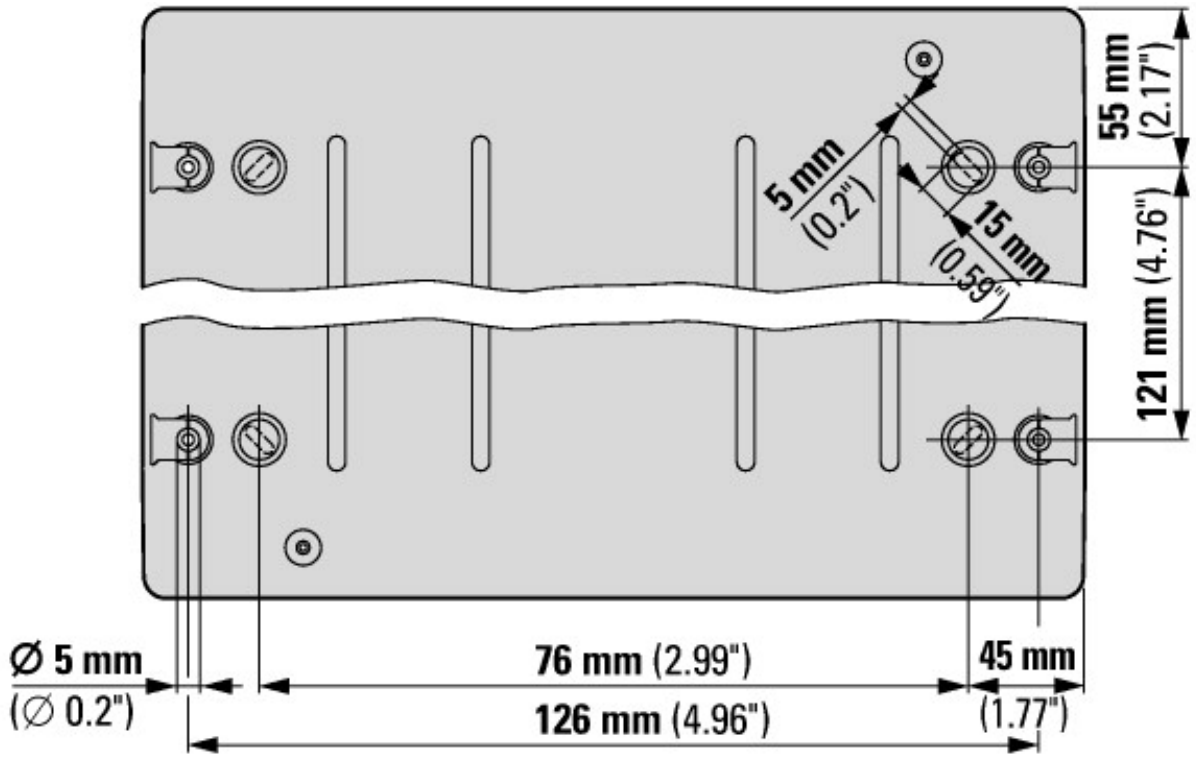
Distribution boards (EG000023) / Small distribution board (EC000214)

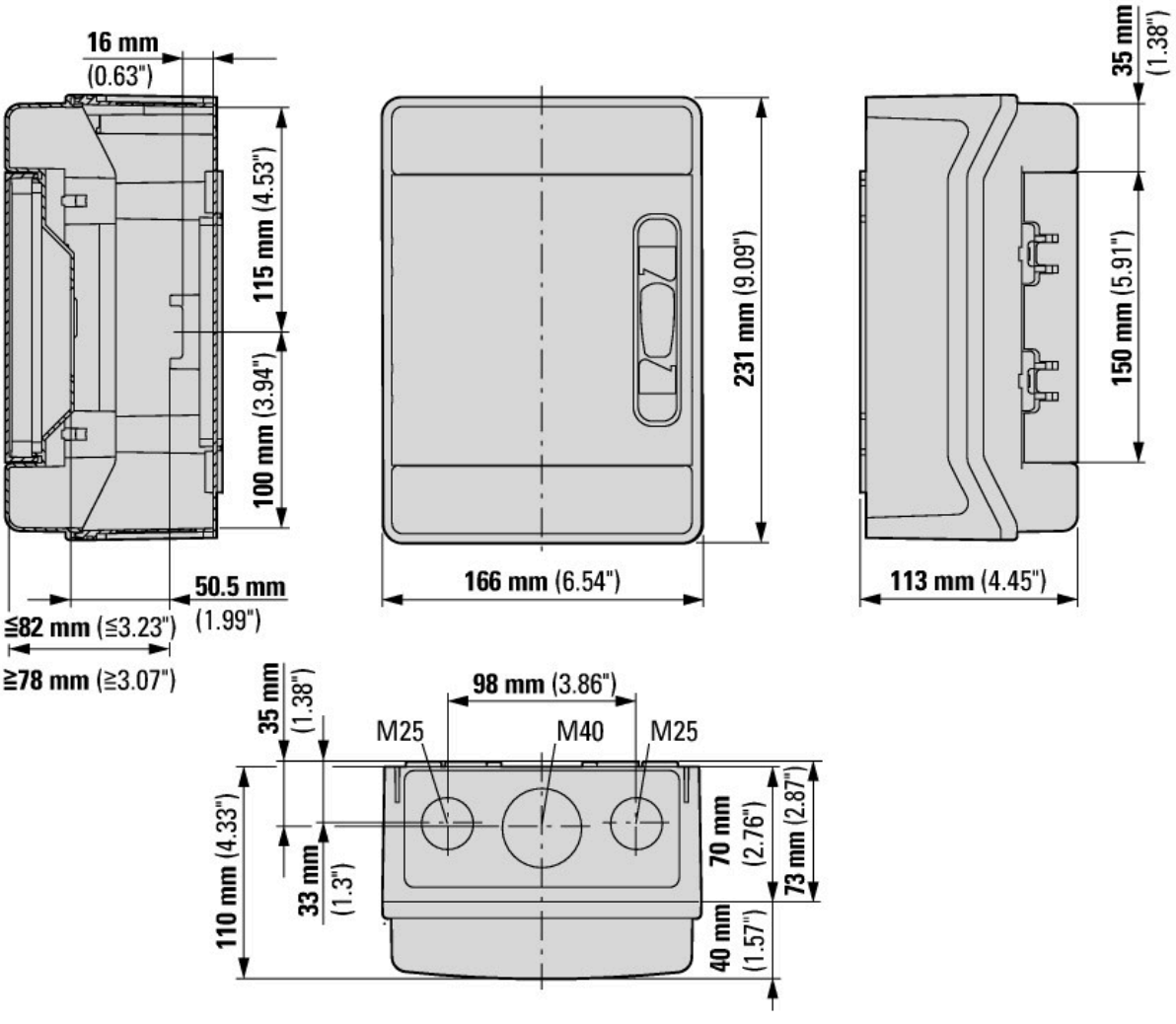
Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (ecl@ss10.0.1-27-14-24-09 [ACN387011])

Mounting method			Surface mounted (plaster)
Number of rows			1
Width in number of modular spacings			4
Type of cover			Door
Cover model			With notch
Transparent cover/door			Yes
Material housing			Plastic
Height		mm	231
Width		mm	166
Depth		mm	110
Built-in depth		mm	70
Internal depth		mm	60
DIN-rail			Yes
With mounting plate			No
Extension possible			Yes
EMC-version			No
Colour			Grey
RAL-number			7035
Degree of protection (IP)			IP65
With lock			No

Type of closure			Other

Dimensions





Additional product information (links)

Product overview (Web)	http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm

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