# **DATASHEET - IKA-1/4-0T**



# IKA standard distribution board, IP65 without clamps



Part no. IKA-1/4-0T Catalog No. 174203 Alternate Catalog IKA-1/4-0T

No.

EL-Nummer 0001702937

(Norway)

#### **Delivery program**

Delivery program		
Basic function		Basic device
Product function		Installation distribution boards
Product range		IKA standard 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		Without
Equipment supplied		Basic device Device support rails Locking screws can be sealed Sealing caps Current circuit designation

# **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
Material characteristics			
Material			ABS (plastic)
Colour			Gray (RAL 7035)
Material properties			
Mechanical			
Impact resistance			IK08

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

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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			

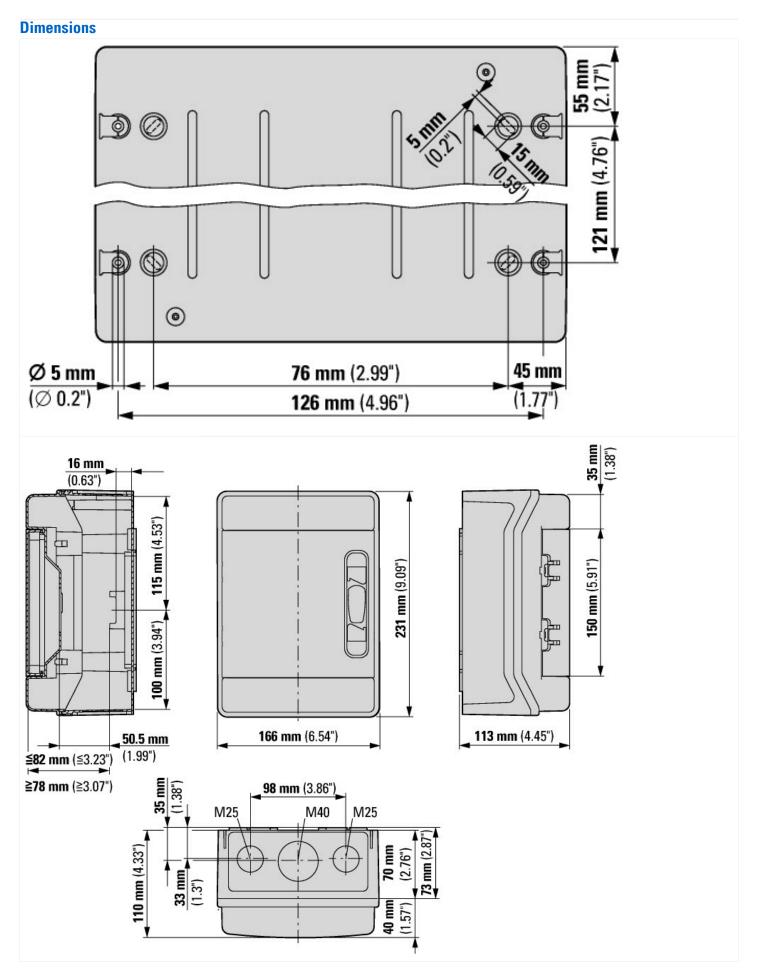
1000: 11 (	
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets 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 <sub>i</sub> = 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.
0.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton w 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])

Number of rows         Image: Cover of cove	(*************************************		
Width in number of modular spacings         4           Type of cover         Door           Cover model         With notch           Transparent cover/door         Yes           Meterial housing         Image: Plastic           Height         mm         231           Width         mm         166           Depth         mm         10           Built-in depth         mm         70           Internal depth         mm         60           With mounting plate         Yes           Extension possible         Yes           Extension possible         Yes           EMC-version         No           Colour         Grey           RAL-number         Yes           Degree of protection (IP)         Yes           With lock         Yes	Mounting method		Surface mounted (plaster)
Type of cover         Door           Cover model         With notch           Transparent cover/door         Yes           Material housing         Jestic           Height         mm         231           Width         mm         166           Depth         mm         10           Built-in depth         mm         70           Internal depth         mm         60           DIN-rail         Yes           With mounting plate         Yes           Extension possible         Yes           Extension possible         Yes           EMC-version         No           Colour         Grey           RAL-number         7035           Degree of protection (IP)         IP65           With lock         No	Number of rows		1
Cover model         Mith notch           Transparent cover/door         Yes           Material housing         Justic           Height         231           Width         166           Depth         mm         10           Built-in depth         mm         70           Internal depth         mm         60           DIN-rail         Yes           With mounting plate         Yes           Extension possible         Yes           Extension possible         Yes           Extension possible         Yes           EMC-version         Yes           Colour         Grey           RAL-number         7035           Degree of protection (IP)         He65           With lock         No	Width in number of modular spacings		4
Transparent cover/door         Yes           Material housing         Plastic           Height         mm         231           Width         mm         166           Depth         mm         10           Built-in depth         mm         70           Internal depth         mm         60           DIN-rail         Yes           With mounting plate         No           Extension possible         Yes           EMC-version         Yes           Colour         Grey           RAL-number         7035           Degree of protection (IP)         IP65           With lock         No	Type of cover		Door
Material housing         Flastic           Height         mm         231           Width         mm         166           Depth         mm         10           Built-in depth         mm         70           Internal depth         mm         60           DIN-rail         Yes           With mounting plate         No           Extension possible         Yes           EMC-version         No           Colour         No           RAL-number         Grey           Degree of protection (IP)         IP65           With lock         No	Cover model		With notch
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         Yes           Extension possible         Yes         Yes           EMC-version         No         Grey           RAL-number         7035         Testension (IP)         P65           With lock         No         No	Transparent cover/door		Yes
Width         mm         166           Depth         mm         110           Built-in depth         mm         70           Internal depth         mm         60           DIN-rail         Yes           With mounting plate         No         Yes           Extension possible         Yes         Yes           EMC-version         Yes         No           Colour         Grey         Grey           RAL-number         7035         Photomatical Plots           Degree of protection (IP)         IP65         No           With lock         No         No	Material housing		Plastic
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	Height	mm	231
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	Width	mm	166
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	Depth	mm	110
DIN-rail With mounting plate With mounting possible Extension possible EMC-version Colour RAL-number Degree of protection (IP) With lock  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	Built-in depth	mm	70
With mounting plate Extension possible EMC-version Colour RAL-number Degree of protection (IP) With lock  No  No  No  No  No  No  No  No  No  N	Internal depth	mm	60
Extension possible         Yes           EMC-version         No           Colour         Grey           RAL-number         7035           Degree of protection (IP)         IP65           With lock         No	DIN-rail		Yes
EMC-version         No           Colour         Grey           RAL-number         7035           Degree of protection (IP)         IP65           With lock         No	With mounting plate		No
Colour Grey RAL-number 7035 Degree of protection (IP) IP65 With lock No	Extension possible		Yes
RAL-number 7035 Degree of protection (IP) IP65 With lock No	EMC-version		No
Degree of protection (IP)  With lock  No	Colour		Grey
With lock No	RAL-number		7035
	Degree of protection (IP)		IP65
Type of closure Other	With lock		No
	Type of closure		Other



# **Additional product information (links)**

IL014003Z IKA compact distribution board	
IL014003Z IKA compact distribution board	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL014003ZU2015_03.pdf
Product overview (Web)	http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm