

# IKA professional distribution board, IP65 + clamps

Powering Business Worldwide\*

Part no. IKA-1/4-ST Catalog No. 174221 Eaton Catalog No. IKA-1/4-ST

# **Delivery program**

- service / programme			
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 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 <sup>2</sup>	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
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, calculated as per IEC 60890			
Individual enclosure for wall mounting	$P_V$	CO	11
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890			

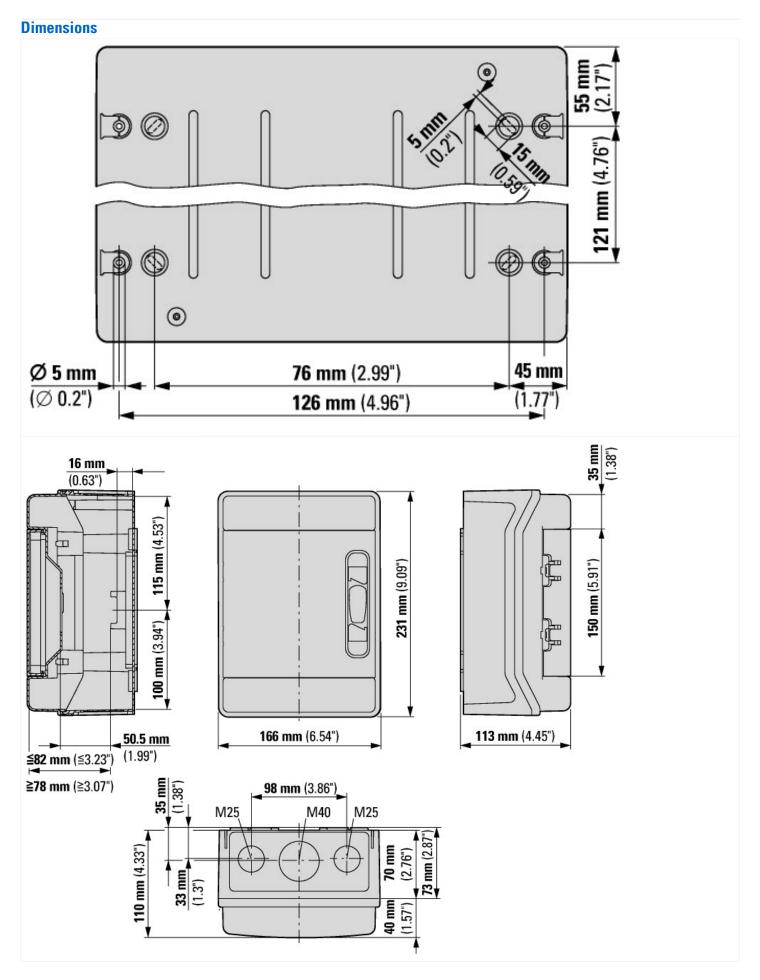
Individual enclosure for wall mounting	$P_{V}$	CO	22
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
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 <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.
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 6.0**

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@ss8.1-27-14-24-09 [ACN387008])

Mounting method     Surface mounting       Number of rows     1       Vidth in number of modular spacings     6       Tope of cover     6       Cover model     6       Tomoshila the size of surface of cover/door     6       Material housing     7       Medight     8       Might     9       Might     16       Might <th>(ecl@ss8.1-27-14-24-09 [ACN387008])</th> <th></th> <th></th>	(ecl@ss8.1-27-14-24-09 [ACN387008])		
Width in number of modular spacings         4           Type of cover         Door           Cover model         With notch           Transparent cover/door         Yes           Material housing         Jestic           Height         Macrost of the space of the sp	Mounting method		Surface mounting
Type of cover         Door           Cover model         With notch           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         Yes           Extension possible         Yes         No           EMC-version         No         No           Colour         Grey         Grey           RAL-number         70035         1965           Degree of protection (IP)         1965         1965	Number of rows		1
Cover model         With notch           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         No           Colour         No           RAL-number         7035           Degree of protection (IP)         IP65	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         Yes           Extension possible         Yes           EMC-version         No           Colour         No           RAL-number         Grey           Degree of protection (IP)         Te65	Type of cover		Door
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         Yes           Extension possible         Yes         Yes           EMC-version         No         Grey           RAL-number         7035         Test           Degree of protection (IP)         IP65         IP65	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         No           EMC-version         No         Grey           RAL-number         Grey         7035           Degree of protection (IP)         IP65	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           Extension possible         Yes           EMC-version         No           Colour         Grey           RAL-number         7035           Degree of protection (IP)         IP65	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	Height	mm	231
Built-in depth Internal depth DIN-rail With mounting plate EMC-version Colour RAL-number Degree of protection (IP)  mm 70  ves  ves  ves  No  ves  No  Roc  Gerey  7035	Width	mm	166
Internal depth mm 60 DIN-rail Yes With mounting plate Extension possible EMC-version Colour RAL-number Degree of protection (IP)  mm 60 Yes No Ges Yes No Gerey R165	Depth	mm	110
DIN-rail With mounting plate No Extension possible EMC-version Colour RAL-number Degree of protection (IP) Yes No Ges Grey RAL-number No Degree of protection (IP) Yes No Grey RAL-number P65	Built-in depth	mm	70
With mounting plate No Extension possible Yes EMC-version No Colour Grey RAL-number 7035 Degree of protection (IP) IP65	Internal depth	mm	60
Extension possibleYesEMC-versionNoColourGreyRAL-number7035Degree of protection (IP)IP65	DIN-rail		Yes
EMC-versionNoColourGreyRAL-number7035Degree of protection (IP)IP65	With mounting plate		No
Colour Grey RAL-number 7035 Degree of protection (IP) IP65	Extension possible		Yes
RAL-number 7035 Degree of protection (IP) IP65	EMC-version		No
Degree of protection (IP)	Colour		Grey
	RAL-number		7035
With lock No	Degree of protection (IP)		IP65
	With lock		No



## **Additional product information (links)**

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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