IKA professional distribution board, IP65 + clamps

Part no.	**IKA-1/12-ST**
Article no.	**174197**
Catalog No.	**IKA-1/12-ST**

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		12
Description		IP65 Protection Class II Plastic enclosure gray (RAL 7035)
Cable entries		Metric cable entries on top and bottom, side, back plate
PE and N terminals design		Screw terminals
PE and N terminals	Number x cross-sectional area mm²	PE: 6 x (2.5 - 6) + 6 x (4 - 10) + 1 x (10 - 25) + 1 x (16 - 35) N: 6 x (2.5 - 6) + 6 x (4 - 10) + 1 x (10 - 25) + 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

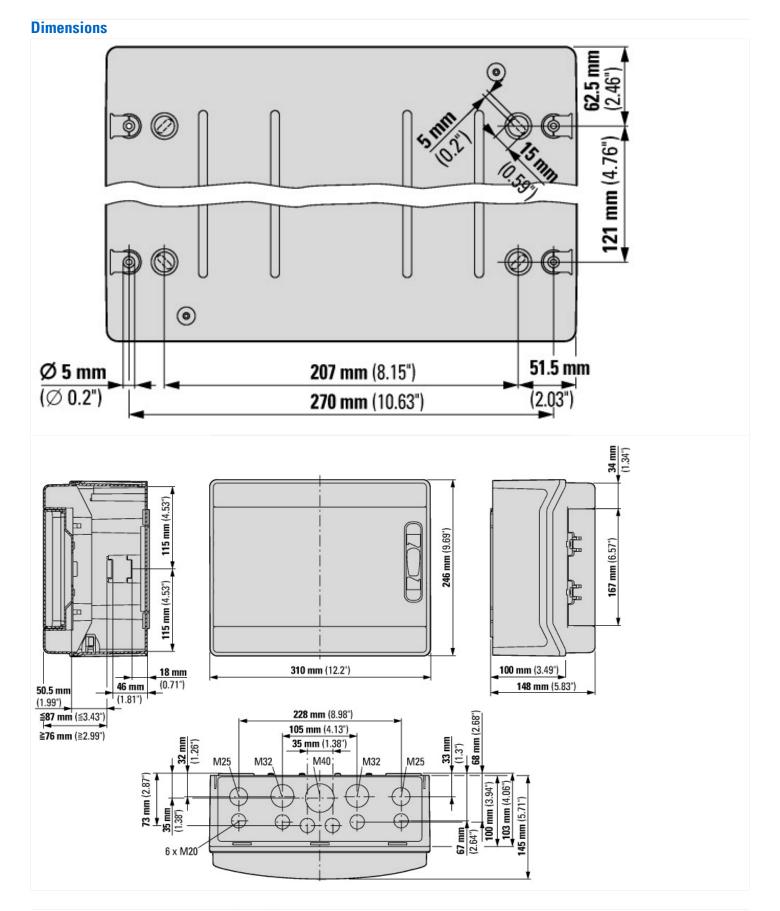|			
Technical data for design verification			
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees, calculated as per IEC 60890			
Individual enclosure for wall mounting	P_V	CO	20
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890			
Individual enclosure for wall mounting	P_V	CO	40
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 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
Width in number of modular spacings			12
Type of cover			Door
Cover model			With notch
Transparent cover/door			Yes
Material housing			Plastic
Height		mm	246
Width		mm	310
Depth		mm	145
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

Dimensions

Ø 5 mm (Ø 0.2") | 62.5 mm (2.46") | 121 mm (4.76") | 5 mm (0.2") | 15 mm (0.59")
207 mm (8.15") | 270 mm (10.63") | 51.5 mm (2.03")

115 mm (4.53") | 115 mm (4.53") | 246 mm (9.69") | 34 mm (1.34") | 167 mm (6.57")
18 mm (0.71") | 46 mm (1.81") | 310 mm (12.2") | 100 mm (3.49") | 148 mm (5.83")
50.5 mm (1.99") | ≦ 87 mm (≦ 3.43") | ≧ 76 mm (≧ 2.99")

228 mm (8.98") | 105 mm (4.13") | 35 mm (1.38") | 32 mm (1.26") | 33 mm (1.3") | 68 mm (2.68")
M25 M32 M40 M32 M25
73 mm (2.87") | 35 mm (1.38") | 6 x M20 | 67 mm (2.64") | 100 mm (3.94") | 103 mm (4.06") | 145 mm (5.71")

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