

IKA professional distribution board, IP65 + clamps

Powering Business Worldwide*

Part no. IKA-1/6-ST Article no. 174222 Catalog No. IKA-1/6-ST

	III/OFI	- MEA	gram
112	IIVEIV		1112111
		PIU	qi uiii

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			6
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

delicial			
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	13
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	25

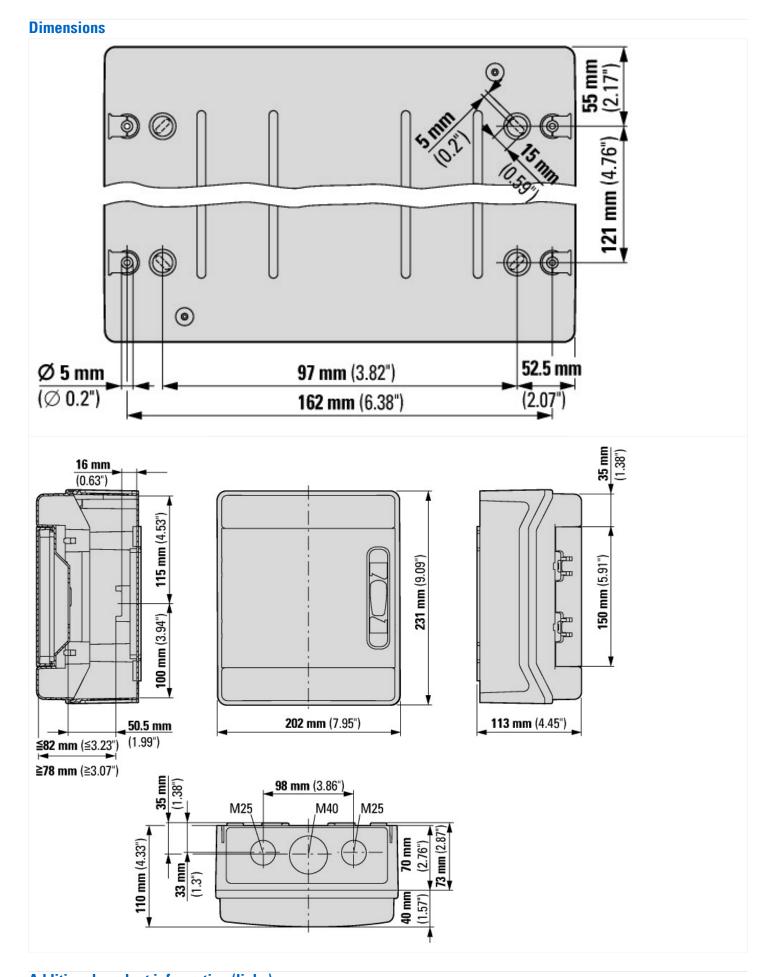
10.2.2 Strength of materials and parts 10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due internal electric effects 10.2.4.3 Sterification of resistance of insulating materials to abnormal heat and fire due internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.7 Inscriptions 10.2.7 Inscriptions 10.2.8 Mechanical impact 10.3.1 Verification of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Incorporation of switching devices and components 10.5 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.9 Insulation properties 10.9 Insulation properties 10.9.2 Power-frequency electric strongth 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 10.14 Meets the product standard's requirements. Meets the product standard's requirements. Meets the panel builder's responsibility. In the panel builder's responsibility.	EC/EN 61439 design verification	
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 abnormal heat and fire due to internal electric effects 10.2.3 Not relevant to indoor installations. 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting Does not apply to enclosures without lifting aids. 10.2.5 Mechanical impact IKOB 10.2.7 Inscriptions Descriptions Descript	10.2 Strength of materials and parts	
10.2.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.9 Insulation properties 10.9 Insulation properties 10.9 Insulation properties 10.9 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility. 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility. 10.13 Electromagnetic compatibility. 10.14 Esting of enclosures made of insulating material 10.15 Electromagnetic compatibility. 10.16 Incorporation of existence of insulating material in the panel builder's responsibility. 10.15 Electromagnetic compatibility. 10.16 Incorporation of existence of insulating material in the panel builder's responsibility. 10.16 Incorporation of existence of insulating material in the panel builder's responsibility. 10.16 Incorporation of existence of insulating material in the panel builder's responsibility. 10.17 Electromagnetic compatibility. 10.18 Electromagnetic compatibility. 10.19 Electromagnetic compatibility.	10.2.2 Corrosion resistance	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 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3.0 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.2 List panel builder's responsibility. 10.3 Impulse withstand voltage 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Impulse vices and compatibility 10.14 Short-circuit rating 10.15 Short-circuit rating 10.16 Short-circuit rating 10.17 Short-circuit rating 10.18 Short-circuit rating 10.19 Short-circuit rating 10.10 Temperature rise calculation. Eaton will provide heat dissipation data for the devices.	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting Does not apply to enclosures without lifting aids. 10.2.6 Mechanical impact 10.2.7 Inscriptions Meets the product standard's requirements. 10.3. Degree of protection of ASSEMBLIES 10.4. Clearances and creepage distances 10.5. Protection against electric shock 10.6. Incorporation of switching devices and components 10.7. Internal electrical circuits and connections 10.8. Connections for external conductors 10.9. Power-frequency electric strength 10.9. Power-frequency electric strength 10.9. Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.14 Steppe and builder's responsibility. 10.15 Internal electrical circuit rating 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.14 Electromagnetic compatibility 10.15 Internal electric electric electric strength 10.16 Internal electric electric electric strength 10.17 Electromagnetic compatibility 10.18 Internal electric electric electric strength 10.19 Internal electric	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
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 of switching devices and components Is the panel builder's responsibility. 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 responsibility. 10.11 Short-circuit rating Is the panel builder's responsibility. 10.12 Electromagnetic compatibility Is the panel builder's responsibility.		650 °C; meets the product standard's requirements.
10.2.6 Mechanical impact 10.2.7 Inscriptions Meets the product standard's requirements. 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.10 Temperature compatibility 10.10 Temperature compatibility 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.13 Short-circuit rating 10.14 Electromagnetic compatibility 10.15 Semperature rise 10.16 Meets the product standard's requirements. 10.17 Internal electrical circuit rating 10.18 Semperature rise 10.19 Semperature rise 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.14 Semperature rise calculation of the devices.	10.2.4 Resistance to ultra-violet (UV) radiation	Not relevant to indoor installations.
10.2.7 Inscriptions 10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.14 Steep and builder's responsibility. 10.15 Product standard's requirements. 10.16 Incorporation of switching devices and components 10.17 Internal electrical circuits and connections 10.18 the panel builder's responsibility. 10.19 Incorporation of well-devices and components 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.14 Electromagnetic compatibility 10.15 Incorporation of ASSEMBLIES 10.16 Temperature rise requirements. 10.10 Temperature rise 10.11 Short-circuit rating 10.11 Short-circuit rating 10.12 Electromagnetic compatibility.	10.2.5 Lifting	Does not apply to enclosures without lifting aids.
10.3 Degree of protection of ASSEMBLIES 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility Is the panel builder's responsibility. Is the panel builder is responsibility. Is the panel builder is responsibility of the temperature rise calculation. Eaton will provide heat dissipation data for the devices.	10.2.6 Mechanical impact	IK08
10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility Is the panel builder's responsibility.	10.2.7 Inscriptions	Meets the product standard's requirements.
10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility Protection class 2, therefore not applicable. Is the panel builder's responsibility. Is the panel builder's responsibility. Protection class 2, therefore not applicable. Is the panel builder's responsibility. Protection class 2, therefore not applicable. Is the panel builder's responsibility. Protection class 2, therefore not applicable. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility.	10.3 Degree of protection of ASSEMBLIES	IP65
10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility Is the panel builder's responsibility. Is the panel builder is responsibility. Is the panel builder's responsibility.	10.4 Clearances and creepage distances	Is the panel builder's responsibility.
10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility.	10.5 Protection against electric shock	Protection class 2, therefore not applicable.
10.8 Connections for external conductors 10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility Is the panel builder's responsibility. Is the panel builder's responsibility.	10.6 Incorporation of switching devices and components	Is the panel builder's responsibility.
10.9 Insulation properties 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 3.3 kV 10.9.4 Testing of enclosures made of insulating material 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.	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength 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.	10.8 Connections for external conductors	Is the panel builder's responsibility.
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. The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.11 Short-circuit rating 1s the panel builder's responsibility. 1o.12 Electromagnetic compatibility 1s the panel builder's responsibility.	10.9 Insulation properties	
10.94 Testing of enclosures made of insulating material Meets the product standard's requirements. 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.	10.9.2 Power-frequency electric strength	U _i = 1000 V AC
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.	10.9.3 Impulse withstand voltage	3.3 kV
provide heat dissipation data for the devices. 10.11 Short-circuit rating 1s the panel builder's responsibility. 10.12 Electromagnetic compatibility 1s the panel builder's responsibility.	10.9.4 Testing of enclosures made of insulating material	Meets the product standard's requirements.
10.12 Electromagnetic compatibility Is the panel builder's responsibility.	10.10 Temperature rise	
	10.11 Short-circuit rating	Is the panel builder's responsibility.
10.13 Mechanical function Meets the product standard's requirements.	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		6
Type of cover		Door
Cover model		With notch
Transparent cover/door		Yes
Material housing		Plastic
Height	mm	231
Width	mm	202
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



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