

Part no. IKA-1/18-OT Article no. 174209 Catalog No. IKA-1/18-OT



### **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		18
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		Without
Equipment supplied		Basic device Device support rails Locking screws can be sealed Sealing caps Current circuit designation

#### Technical data General

General			
Standards			EN 62208, IEC/EN 60670-24
RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) $\label{eq:council}$			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 <sub>V</sub>	CO	27
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890			
Individual enclosure for wall mounting	P <sub>V</sub>	CO	54
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.

102.3.2 Verification of resistance of insulating materials to normal heat and fire due to internal electric effectsMeets the product standard's requirements.102.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects650°C; meets the product standard's requirements.10.2.4 Resistance to ultra-violet (UV) radiationNot relevant to indoor installations.10.2.5 LiftingDes not apply to enclosures without lifting aids.10.2.6 Mechanical impactK0810.2.7 InscriptionsK0810.3 Degree of protection of ASSEMBLIESIs the product standard's requirements.10.4 Clearances and creepage distancesF06510.6 Incorporation of switching devices and componentsIs the panel builder's responsibility.10.8 Connections for external conductorsIs the panel builder's responsibility.10.9 Insulation propertiesIs the panel builder's responsibility.10.9 Insulation properties<		
and fire due to internal electric effects   Motelevant to indoor installations.     102.4 Resistance to ultra-violet (UV) radiation   Does not apply to enclosures without lifting aids.     102.5 Lifting   Does not apply to enclosures without lifting aids.     102.6 Mechanical impact   KO8     10.2.7 Inscriptions   Metes the product standard's requirements.     10.3 Degree of protection of ASSEMBLIES   F65     10.4 Clearances and creepage distances   F164     10.5 Protection against electric shock   F164     10.6 Incorporation of switching devices and components   F164     10.8 Connections for external conductors   F164     10.9 Insulation properties   Is the panel builder's responsibility.     10.9.1 mpulse withstand voltage   Is the panel builder's responsibility.	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.5 LiftingDoes not apply to enclosures without lifting aids.10.2.6 Mechanical impactK0810.2.7 InscriptionsK0810.3 Degree of protection of ASSEMBLIESFP510.4 Clearances and creepage distancesFV6510.5 Protection against electric shockFV6510.6 Incorporation of switching devices and componentsFV6510.7 Internal electrical circuits and connectionsFV6510.8 Connections for external conductorsFV6510.9 Insulation propertiesIs the panel builder's responsibility.10.9.2 Power-frequency electric strengthFV6510.9.3 Inpulse withstand voltageFV65		650 °C; meets the product standard's requirements.
10.2.6 Mechanical impact   KO8     10.2.7 Inscriptions   Meets the product standard's requirements.     10.3.0 Degree of protection of ASSEMBLIES   P65     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.     10.9 Insulation properties   Is the panel builder's responsibility.     10.9.2 Power-frequency electric strength   Image: Strength and voltage     10.9.3 Impulse withstand voltage   Image: Strength and voltage	10.2.4 Resistance to ultra-violet (UV) radiation	Not relevant to indoor installations.
10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESF6510.4 Clearances and creepage distancesF6510.5 Protection against electric shockFrotection class 2, therefore not applicable.10.6 Incorporation of switching devices and componentsF6410.7 Internal electrical circuits and connectionsF6410.8 Connections for external conductorsF6410.9 Insulation propertiesF6410.9.2 Power-frequency electric strengthF6410.9.3 Impulse withstand voltageF6410.9 Insulation propertiesF6410.9 Insulation propertiesF6410.9 Insulation propertiesF6410.9.3 Impulse withstand voltageF6410.9 Insulation propertiesF6410.9 Insulation propertiesF6410.9 Insulation propertiesF6410.9.3 Impulse withstand voltageF6410.9 Insulation propertiesF6410.9 Insulation properties <td>10.2.5 Lifting</td> <td>Does not apply to enclosures without lifting aids.</td>	10.2.5 Lifting	Does not apply to enclosures without lifting aids.
10.3 Degree of protection of ASSEMBLIES16510.4 Clearances and creepage distances16616610.5 Protection against electric shock16616010.6 Incorporation of switching devices and components16616010.7 Internal electrical circuits and connections16616010.8 Connections for external conductors16016010.9 Insulation properties16016010.9.2 Power-frequency electric strength16016010.9.3 Impulse withstand voltage160160	10.2.6 Mechanical impact	IK08
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   Is the panel builder's responsibility.     10.9.2 Power-frequency electric strength   Is the panel builder's responsibility.     10.9.3 Impulse withstand voltage   Is the panel builder's responsibility.	10.2.7 Inscriptions	Meets the product standard's requirements.
10.5 Protection against electric shock   Image: Constraint of switching devices and components   Image: Constraint of switchin	10.3 Degree of protection of ASSEMBLIES	IP65
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   Is the panel builder's responsibility.     10.9.2 Power-frequency electric strength   Vi = 1000 V AC     10.9.3 Impulse withstand voltage   3.3 kV	10.4 Clearances and creepage distances	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 Is the panel builder's responsibility.   10.9.2 Power-frequency electric strength Is the panel builder's responsibility.   10.9.3 Impulse withstand voltage Is the panel builder's responsibility.	10.5 Protection against electric shock	Protection class 2, therefore not applicable.
10.8 Connections for external conductors Is the panel builder's responsibility.   10.9 Insulation properties Is the panel builder's responsibility.   10.9.2 Power-frequency electric strength Is the panel builder's responsibility.   10.9.3 Impulse withstand voltage Is the panel builder's responsibility.	10.6 Incorporation of switching devices and components	Is the panel builder's responsibility.
10.9 Insulation properties Image: Constraint of the second of the seco	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength Ui = 1000 V AC   10.9.3 Impulse withstand voltage 3.3 kV	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage 3.3 kV	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.	10.9.4 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.	10.10 Temperature rise	
10.11 Short-circuit rating Is the panel builder's responsibility.	10.11 Short-circuit rating	Is the panel builder's responsibility.
10.12 Electromagnetic compatibility 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.	10.13 Mechanical function	Meets the product standard's requirements.

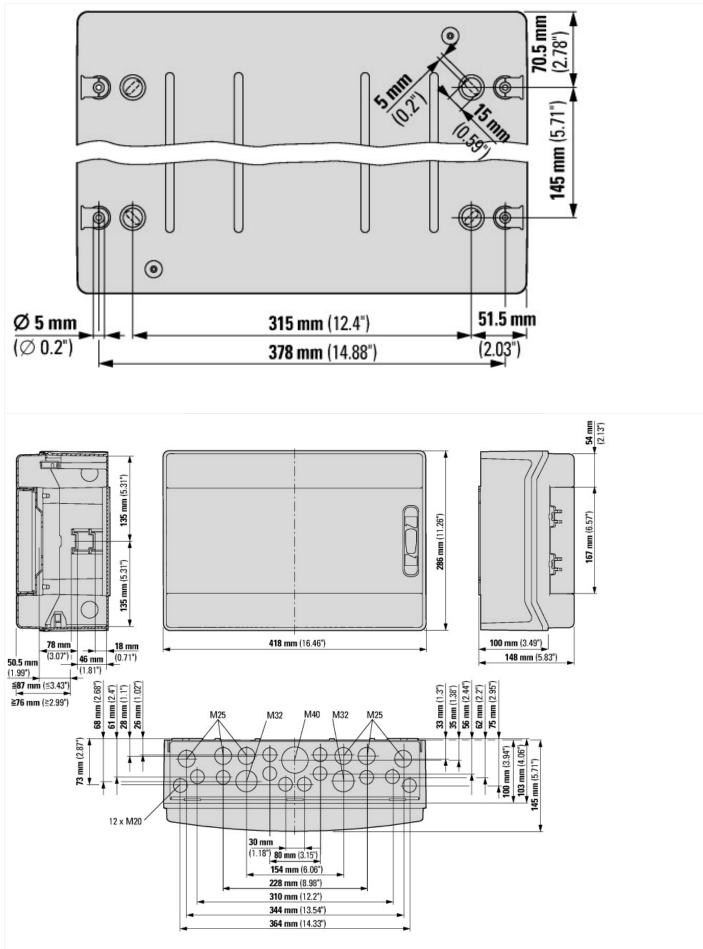
#### **Technical data ETIM 6.0**

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		18
Type of cover		Door
Cover model		With notch
Transparent cover/door		Yes
Material housing		Plastic
Height	mm	286
Width	mm	418
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**



## 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