

IKA professional distribution board, IP65 + clamps



Part no.	IKA-1/18-ST
Catalog No.	174200
Alternate Catalog No.	IKA-1/18-ST
EL-Nummer	1702934
(Norway)	

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		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		Screw terminals
PE and N terminals	Number x cross- sectional area	mm ² PE: 8 x (2.5 - 6) + 8 x (4 - 10) + 1 x (10 - 25) + 1 x (16 - 35) N: 8 x (2.5 - 6) + 8 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
Insulation voltage			
AC		V AC	1000
DC		V DC	1500

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	
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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	27
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	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.
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 8.0

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])		
Mounting method		Surface mounted (plaster)
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
Built-in height	mm	0
Built-in width	mm	0
Internal depth	mm	60
Earthing terminal block		No
Neutral terminal block		No
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
Type of closure		Other
Signal passing door		No