

Specifications



Eaton 174200

Eaton xComfort IKA LV systems Final Distribution Boards. IKA professional distribution board, IP65 + clamps, 1/18-ST

General specifications

PRODUCT NAME	Eaton xComfort IKA professional series
CATALOG NUMBER	174200
MODEL CODE	IKA-1/18-ST
EAN	4015081706624
PRODUCT LENGTH/DEPTH	145 mm
PRODUCT HEIGHT	286 mm
PRODUCT WIDTH	418 mm
PRODUCT WEIGHT	1.83 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60670-24 EN 62208



Powering Business Worldwide

Additional information

FITTED WITH:	Basic device Sealing caps Device support rails Neutral-/protective conductor terminal Reserve section cover 6 space units Current circuit designation
	Locking screws can be sealed

FUNCTIONS	Basic device Extension possible Sealable
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PROTECTION CLASS	II (totally insulated)
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RAL-NUMBER	7035
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SPECIAL FEATURES	• IP65 • Protection Class II • Plastic enclosure gray (RAL 7035)
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Delivery programme

APPLICATION	Indoor (installation site)
COLOR	Gray Light gray (RAL 7035)
TYPE	• Basic device • IKA professional distribution board • Installation distribution board

Design verification to IEC/EN 61439

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.
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 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. 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	Is the panel builder's

Design verification to IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE DETAILS	-25 °C - 40 °C
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EXTERNAL CONDUCTORS	responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Ui = 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.

Technical data - electrical

FREQUENCY RATING OF CONTACTS	50 Hz
VOLTAGE RATING AT AC	415 V AC

Technical data - mechanical

BUILT-IN DEPTH	70 mm
CABLE ENTRY POSTION	Metric cable entries on top and bottom, side, back plate
CLOSURE TYPE	Other
COVER/DOOR COLOR	Transparent
COVER/DOOR MODEL	With notch
COVER/DOOR TYPE	Door Single
DEGREE OF PROTECTION	IP65 IK08 (impact resistance)
ENCLOSURE MATERIAL	Plastic
INTERNAL DEPTH	60 mm
MATERIAL	ABS (plastic)
MODULE RACK TYPE	Single-rail
MOUNTING METHOD	DIN-rail Surface mounted (plaster) Surface mounting
NUMBER OF MODULE SPACE UNITS PER ROW	18
NUMBER OF ROWS	1
PE AND N TERMINAL NUMBER AND CROSS SECTION	PE: 8 x (2.5 mm ² - 6 mm ²) + 8 x (4 mm ² - 10 mm ²) + 1 x (10 mm ² - 25 mm ²) + 1 x (16 mm ² - 35 mm ²) N: 8 x (2.5 mm ² - 6 mm ²) + 8 x (4 mm ² - 10 mm ²) + 1 x (10 mm ² - 25 mm ²) + 1 x (16 mm ² - 35 mm ²)
PROTECTIVE SHROUDING MATERIAL	Plastic
TERMINAL TYPE	Screw terminals
WIDTH IN NUMBER OF MODULAR SPACINGS	18

Temperature-rise verification as per IEC 60890

HEAT DISS. AMBIENT
35°C DELTA T:20°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890) 27 W

HEAT DISS. AMBIENT
35°C DELTA T:35°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890) 54 W

Resources

BROCHURES

[eaton-xcomfort-compact-distribution-boxes-brochure-br014015en-en-us.pdf](#)

[eaton-xstorage-home-range-brochure-for-installers-en-gb.pdf](#)

CATALOGUES

[eaton-xcomfort-compact-distribution-catalog-ca015004en-en-us.pdf](#)

CERTIFICATION REPORTS

[eaton-xcomfort-ika-declaration-of-conformity-251017-en-us.pdf](#)

DECLARATIONS OF CONFORMITY

[eaton-standard-series-declaration-of-conformity-eu251514en.pdf](#)

DRAWINGS

[eaton-lighting-enclosure-xcomfort-ika-lv-systems-dimensions-018.eps](#)

[eaton-lighting-enclosure-xcomfort-ika-lv-systems-dimensions-009.eps](#)

INSTALLATION INSTRUCTIONS

[eaton-xcomfort-ika-installation-il014003zu-z.pdf](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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