

# Specifications



Photo is representative



## Eaton 174190

Eaton xComfort IKA LV systems Final Distribution Boards. IKA industrial distribution board, UV-stable, IP65 + clamps, 1/12-ST-UV

### General specifications

|                             |                                      |
|-----------------------------|--------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xComfort IKA industrial series |
| <b>CATALOG NUMBER</b>       | 174190                               |
| <b>MODEL CODE</b>           | IKA-1/12-ST-UV                       |
| <b>EAN</b>                  | 4015081706525                        |
| <b>PRODUCT LENGTH/DEPTH</b> | 145 mm                               |
| <b>PRODUCT HEIGHT</b>       | 246 mm                               |
| <b>PRODUCT WIDTH</b>        | 310 mm                               |
| <b>PRODUCT WEIGHT</b>       | 1.45 kg                              |
| <b>COMPLIANCES</b>          | RoHS conform                         |
| <b>CERTIFICATIONS</b>       | IEC/EN 60670-24<br>EN 62208          |



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## Additional information

|                         |                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FEATURES</b>         | UV resistant                                                                                                                                                                                             |
| <b>FITTED WITH:</b>     | Sealing caps<br>Basic device<br>Device support rails<br>Locking screws can be sealed<br>Current circuit designation<br><br>Neutral-/protective conductor terminal<br>Reserve section cover 6 space units |
| <b>FUNCTIONS</b>        | Basic device<br>Extension possible<br>Sealable                                                                                                                                                           |
| <b>PROTECTION CLASS</b> | II (totally insulated)                                                                                                                                                                                   |
| <b>RAL-NUMBER</b>       | 7035                                                                                                                                                                                                     |
| <b>SPECIAL FEATURES</b> | <ul style="list-style-type: none"><li>• IP65</li><li>• Protection Class II</li><li>• Plastic enclosure gray (RAL 7035)</li></ul>                                                                         |
| <b>USED WITH</b>        | IKA industrial distribution board<br>Installation distribution board<br>Basic device                                                                                                                     |

## Delivery programme

|                    |                                                                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APPLICATION</b> | <ul style="list-style-type: none"><li>• Indoor (installation site)</li><li>• Outdoor (installation site)</li></ul>                                   |
| <b>COLOR</b>       | Gray<br>Light gray (RAL 7035)                                                                                                                        |
| <b>TYPE</b>        | <ul style="list-style-type: none"><li>• Basic device</li><li>• IKA industrial distribution board</li><li>• Installation distribution board</li></ul> |

## Design verification to IEC/EN 61439

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility.                                                                                           |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility.                                                                                           |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | Meets the product standard's requirements.                                                                                       |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | 850 °C; meets the product standard's requirements.                                                                               |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | 1000 h of UV exposure as per ISO 4892-2; meets the product standard's requirements.                                              |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply to enclosures without lifting aids.                                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | IK08                                                                                                                             |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | IP65                                                                                                                             |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Is the panel builder's responsibility.                                                                                           |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                                           | Protection class 2, therefore not applicable.                                                                                    |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>                           | Is the panel builder's responsibility.                                                                                           |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>                                | Is the panel builder's responsibility.                                                                                           |

## Design verification to IEC/EN 61439 - technical data

|                                              |                |
|----------------------------------------------|----------------|
| <b>AMBIENT OPERATING TEMPERATURE DETAILS</b> | -25 °C - 40 °C |
|----------------------------------------------|----------------|

|                                                                 |                                            |
|-----------------------------------------------------------------|--------------------------------------------|
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.     |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Ui = 1000 V AC                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | 3.3 kV                                     |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Meets the product standard's requirements. |

## Technical data - electrical

|                                     |          |
|-------------------------------------|----------|
| <b>FREQUENCY RATING OF CONTACTS</b> | 50 Hz    |
| <b>VOLTAGE RATING AT AC</b>         | 415 V AC |

## Technical data - mechanical

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BUILT-IN DEPTH</b>                             | 70 mm                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>CABLE ENTRY POSTION</b>                        | Metric cable entries on top and bottom, side, back plate                                                                                                                                                                                                                                                                                                                                                    |
| <b>CLOSURE TYPE</b>                               | Other                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>COVER/DOOR COLOR</b>                           | Transparent                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>COVER/DOOR MODEL</b>                           | With notch                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>COVER/DOOR TYPE</b>                            | Door<br>Single                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>DEGREE OF PROTECTION</b>                       | IK08 (impact resistance)<br>IP65                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ENCLOSURE MATERIAL</b>                         | Plastic                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>INTERNAL DEPTH</b>                             | 60 mm                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MATERIAL</b>                                   | Polycarbonate (plastic)                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MODULE RACK TYPE</b>                           | Single-rail                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MOUNTING METHOD</b>                            | DIN-rail<br>Surface mounting<br>Surface mounted (plaster)                                                                                                                                                                                                                                                                                                                                                   |
| <b>NUMBER OF MODULE SPACE UNITS PER ROW</b>       | 12                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>NUMBER OF ROWS</b>                             | 1                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>PE AND N TERMINAL NUMBER AND CROSS SECTION</b> | PE: 6 x (2.5 mm <sup>2</sup> - 6 mm <sup>2</sup> ) + 6 x (4 mm <sup>2</sup> - 10 mm <sup>2</sup> ) + 1 x (10 mm <sup>2</sup> - 25 mm <sup>2</sup> ) + 1 x (16 mm <sup>2</sup> - 35 mm <sup>2</sup> )<br>N: 6 x (2.5 mm <sup>2</sup> - 6 mm <sup>2</sup> ) + 6 x (4 mm <sup>2</sup> - 10 mm <sup>2</sup> ) + 1 x (10 mm <sup>2</sup> - 25 mm <sup>2</sup> ) + 1 x (16 mm <sup>2</sup> - 35 mm <sup>2</sup> ) |
| <b>PROTECTIVE SHROUDING MATERIAL</b>              | Plastic                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>TERMINAL TYPE</b>                              | Screw terminals                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>        | 12                                                                                                                                                                                                                                                                                                                                                                                                          |

## Temperature-rise verification as per IEC 60890

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

HEAT DISS. AMBIENT  
35°C DELTA T:35°C WALL  
MOUNT INDIVID. ENCL.  
TOP (IEC 60890) 40 W

## Resources

### BROCHURES

[eaton-xcomfort-compact-distribution-boxes-brochure-br014015en-en-us.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-006.eps](#)

[eaton-lighting-enclosure-xcomfort-ika-lv-systems-dimensions-015.eps](#)

### INSTALLATION INSTRUCTIONS

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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



**Eaton Corporation plc** Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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