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We offer over 50 years providing solutions to demanding customers who require very specific characteristics and behaviour according to the sector and their needs.

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## iHATHOR SAFETY SWITCHES



## Provide Safety to your Property and your Personnel

iHATHOR is a full line of safety and isolation switches of indoor and outdoor applications (made in stainless steel AISI 304L). We design and manufacture every product
 ourselves in our own factories. Focused heavily on safety, iHATHOR's switching device product line brings state-of-the art designs that can even be customized to fit your unique needs. iHATHOR switch disconnectors onload, are available from 20A to 1800 A, a large range for solving the different necessity of market.
Achieving an optimal design for facility it's installation and operation. Key on hand.

FOR MORE INFORMATION CLICK HERE


## iHATHOR SAFETY SWITCHES

## 4

## APPLICATIONS

iHATHOR switch with the electrical with safe in solar and wind renewable energy, offshore, maritime, power distribution, food industry, manufacturing machinery and other general industries.
iHATHOR safety switches are reliable and provide safety to your property and your personnel in addition to providing:

- Protection against overcurrent.
- Protection against circuit overloads.
- Protection against short circuiting.
- Protection against heat-generated damage.

Safety switches are designed to interrupt the power in the event of a single fault in the circuit. Custom solutions projects for small and large series. iHATHOR is certified UL, Nema 4x.

## NORMATIVE

- IEC/EN 60947-3
- IP66 Norm IEC EN 62208 and EN 60529.
- Maximum IKIO resistance Norm IEC62208 and IEC 62262.
- UE Directive of low voltage 2014/35/UE.
- Materials intended to come into contact with food, CE 1935/2004.
- Offhore, maritime grade IP66.
- UL Standard(s) Safety: UL508AIndustrial Control Panels, CSA C22.2 No. I4- Industrial Control Equipment.


## ADVANTAGES

- Ready for installation
- Compact design
- Possibilities in custom housing design.
- Versatility.
- Fast delivery time.
- Custom designs available.
- Quantity discount.



## 4 OPTIONS

- The most standard products are presented, options are available upon request.
- Option multiple of switch, $n^{\circ}$ of poles, current, aux. contacts,...
- Drills in base your needs.
- Option of different supports.
- Option of manufactured in different materials: stainless steel AISI 316L (enclosure maritime grade) or painted galvanized steel finish in RAL 7035 or another color.
- Design on IP67 or IP68 box.
- Possibility of Atex load switch.


# iHATHOR SWITCH DISCONNECTOR BKP SERIES 



Example 20A-25A - 40A


Example 63A-80A

## Available in a Wide Range of Currents from 20A Up I 25A

iHATHOR switch disconnectors available in a wide range of currents from 20A up I25A. BKP Series has been designed according to standard IEC/EN60947-3 for its use in low voltage civil and industrial installations and are certificated to UL 508 for use as manual motor controllers.

FOR MORE INFORMATION CLICK HERE

Example 100A - 125A

TECHNICAL INFORMATION

| iHATHOR SWITCH DISCONNECTORS - BKP SERIES |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACCORDING TOVDE 0660, IEC/EN 60947-3, IEC/EN 60947-5-I |  |  |  | 20 | 25 | 40 | 63 | 80 | 125 |
| Rated thermal current | Ith |  | A | 20 | 25 | 40 | 63 | 80 | 125 |
| Rated thermal current enclosed | Ithe |  | A | 20 | 25 | 40 | 63 | 80 | 110 |
| Rated insulation voltage | Ui |  | V | 690 | 690 | 690 | 690 | 690 | 1000 |
| Rated impulse withstands voltage | Uimp |  | kV | 6 | 6 | 6 | 6 | 6 | 8 |
| Rated operational current AC | le | AC2IA | A | 20 | 25 | 40 | 63 | 80 | 125 |
| Making capacity | leff | $3 \times 380-440 \mathrm{~V}$ | A | 160 | 190 | 300 | 370 | 440 | 850 |
| Breaking capacity |  | $3 \times 220-240 \mathrm{~V}$ | A | 160 | 180 | 250 | 330 | 380 | 680 |
| Breaking capacity |  | $3 \times 380-440 \mathrm{~V}$ | A | 160 | 180 | 250 | 330 | 380 | 680 |
| Breaking capacity |  | $3 \times 660-690 \mathrm{~V}$ | A | 80 | 110 | 170 | 190 | 220 | 420 |
| Direct switching motors | AC3 | $3 \times 400 \mathrm{~V}$ | A | 12 | 16 | 30 | 37 | 37 | 72 |
| Direct switching motors | AC3 | $3 \times 220-240 \mathrm{~V}$ | kW | 3 | 4 | 7,5 | 11 | 11 | 22 |
| Direct switching motors |  | $3 \times 380-440 \mathrm{~V}$ | kW | 5,5 | 7,5 | 15 | 18,5 | 18,5 | 37 |
| Direct switching motors |  | $3 \times 660-690 \mathrm{~V}$ | kW | 5,5 | 7,5 | 15 | 18,5 | 18,5 | 30 |
| Main \& safety switch | AC23 | $3 \times 400 \mathrm{~V}$ | A | 16 | 20 | 32 | 45 | 45 | 85 |
| Main \& safety switch | AC23A | $3 \times 220-240 \mathrm{~V}$ | kW | 4 | 5,5 | 9 | 15 | 15 | 30 |
| Main \& safety switch | AC23B | $3 \times 380-440 \mathrm{~V}$ | kW | 7,5 | 10 | 16 | 22 | 22 | 45 |
| Main \& safety switch |  | $3 \times 660-690 \mathrm{~V}$ | kW | 5,5 | 7,5 | 15 | 18,5 | 18,5 | 37 |
| Rated conditional short- circuit current |  |  | kAeff | 10 | 10 | 10 | 10 | 10 | 10 |
| Max. fuse size | $\mathrm{gL}(\mathrm{gG})$ |  | A | 25 | 35 | 50 | 63 | 80 | 125 |
| Rated short-time withstand current Is. | Icw |  | A | 250 | 300 | 500 | 600 | 850 | 1500 |
| Mechanical life |  |  | $\times 10^{3}$ | 200 | 200 | 200 | 100 | 100 | 100 |
| CONNECTING CAPACITY |  |  |  |  |  |  |  |  |  |
| Solid or stranded cable |  |  | $\mathrm{mm}^{2}$ | 0,5-10 |  | 1-25 |  | 4-50 |  |
| Solid or stranded cable |  |  | AWG | 20-8 |  | 16-4 |  | 10-0 (10) |  |
| Flexible cable |  |  | $\mathrm{mm}^{2}$ | 0,5-6 |  | $4-16$ |  | 10-35 |  |
| Flexible cable |  |  | AWG | 20-10 |  | $16-6$ |  | 8-2 |  |
| Size of terminal screw |  |  |  | M3,5 |  | M5 |  | M6 |  |
| Tightening torque |  |  | Nm | 0,8-1,7 |  | 2-4 |  | 3,5-4,5 |  |

## iHATHOR SWITCH DISCONNECTOR BKP SERIES

4
PLANS AND REFERENCES

BKP SERIES | 20A-25A-40A


| BKP SERIES (20A - 25A - 40A) | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\circ}$ POLES |
| BKP20A3P | 160 | 160 | 90 | 20 | 3 |
| BKP20A4P | 160 | 160 | 90 | 20 | 4 |
| BKP25A3P | 160 | 160 | 90 | 25 | 3 |
| BKP25A4P | 160 | 160 | 90 | 25 | 4 |
| BKP40A3P | 160 | 160 | 90 | 40 | 3 |
| BKP40A4P | 160 | 160 | 90 | 40 | 4 |

BKP SERIES | 63A-80A


| BKP SERIES (63A - 80A) | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\circ}$ POLES |
| BKP63A3P | 200 | 200 | 120 | 63 | 3 |
| BKP63A4P | 200 | 200 | 120 | 63 | 4 |
| BKP80A3P | 200 | 200 | 120 | 80 | 3 |
| BKP80A4P | 200 | 200 | 120 | 80 | 4 |

BKP SERIES | IOOA-I25A


| BKP SERIES (100A - 125A) | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\text {P POLES }}$ |
| BKPI00A3P | 200 | 200 | 120 | 100 | 3 |
| BKPI00A4P | 200 | 200 | 120 | 100 | 4 |
| BKP I25A3P | 200 | 200 | 120 | 125 | 3 |
| BKPI25A4P | 200 | 200 | 120 | 125 | 4 |

## iHATHOR SWITCH DISCONNECTOR HO SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Switch disconnectors on-load H0 Series, are available from 125 A for 250 A , versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA . Uninterrupted duties in extreme tropic and polar conditions, as well as the polluted environment of any industrial process.

[^0]
## TECHNICAL INFORMATION


*(1) Rated operational frenquency $50 / 60 \mathrm{~Hz}$. Other voltages or utilization categories. Please consult.
*(2) Without limiting protective device (short-circuit maintained 50 ms . 100 ms .)
*(3) Intensidad de empleo AC22B.


4 P
Also available 4P switch disconnectors under request

## iHATHOR SWITCH DISCONNECTOR HO SERIES

## - PLANS AND REFERENCES



| HO SERIES REFERENCES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | $N^{\circ}$ POLES |
| HI25A3PP | 300 | 200 | 150 | 125A | 3 |
| HI60A3PP | 300 | 200 | 150 | 160 A | 3 |
| HI25A4PP | 300 | 200 | 150 | 125 A | 4 |
| HI60A4PP | 300 | 200 | 150 | 160 A | 4 |
| HI25A3PB | 300 | 200 | 150 | 125 A | 3 |
| HI60A3PB | 300 | 200 | 150 | 160 A | 3 |
| H200A3PB | 300 | 200 | 150 | 200A | 3 |
| HI25A4PB | 300 | 200 | 150 | 125 A | 4 |
| HI60A4PB | 300 | 200 | 150 | 160 A | 4 |
| H200A4PB | 300 | 200 | 150 | 200A | 4 |
| H200A3PP | 400 | 300 | 150 | 200A | 3 |
| H250A3PP | 400 | 300 | 150 | 250A | 3 |
| H200A4PP | 400 | 300 | 150 | 200A | 4 |
| H250A4PP | 400 | 300 | 150 | 250A | 4 |



## iHATHOR SWITCH DISCONNECTOR HI SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Switch disconnectors on-load HI Series, are available from 3I5A for 400A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA . Uninterrupted duties in extreme tropic and polar conditions, as well as the polluted environment of any industrial process.

F FOR MORE INFORMATION CLICK HERE

## TECHNICAL INFORMATION


*(1) Rated operational frenquency $50 / 60 \mathrm{~Hz}$. Other voltages or utilization categories. Please consult.
*(2) Without limiting protective device (short-circuit maintained 50 ms . - 100 ms .)


4 P
Also available 4P switch disconnectors under request

## iHATHOR SWITCH DISCONNECTOR H I SERIES

## $\angle$ PLANS AND REFERENCES



| HI SERIES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N P POLES |
| H315A3PP | 400 | 300 | 150 | 315 A | 3 |
| H315A4PP | 400 | 300 | 150 | $315 A$ | 4 |
| H400A3PP | 500 | 400 | 200 | $400 A$ | 3 |
| H400A4PP | 500 | 400 | 200 | $400 A$ | 4 |

## iHATHOR SWITCH DISCONNECTOR H2 SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Switch disconnectors on-load H2 Series, are available from 500A for 800 A , versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA . Uninterrupted duties in extreme tropic and polar conditions, as well as the polluted environment of any industrial process.

## TECHNICAL INFORMATION


${ }^{*(1)}$ Rated operational frenquency $50 / 60 \mathrm{~Hz}$. Other voltages or utilization categories. Please consult.
${ }^{*(2)}$ Without limiting protective device (short-circuit maintained 50 ms . - 100 ms .)


4P
Also available 4P switch disconnectors under request

## iHATHOR SWITCH DISCONNECTOR H2 SERIES

## $\because$ PLANS AND REFERENCES



| H2 SERIES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | $\mathrm{N}^{\circ}$ POLES |
| H500A3PP | 500 | 400 | 200 | 500A | 3 |
| H500A4PP | 500 | 400 | 200 | 500A | 4 |
| H630A3PP | 500 | 400 | 200 | 630A | 3 |
| H630A4PP | 500 | 400 | 200 | 630 A | 4 |
| H800A3PP | 500 | 400 | 200 | 800A | 3 |
| H800A4PP | 500 | 400 | 200 | 800A | 4 |



## iHATHOR SWITCH DISCONNECTOR HZ SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Switch disconnectors on-load H3 Series, are available from 1000A for 1800A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA . Uninterrupted duties in extreme tropic and polar conditions, as well as the polluted environment of any industrial process.
$\Rightarrow$ FOR MORE INFORMATION CLICK HERE

## TECHNICAL INFORMATION


*(1) Rated operational frenquency $50 / 60 \mathrm{~Hz}$. Other voltages or utilization categories. Please consult.


4 P
Also available 4P switch disconnectors under request

## iHATHOR SWITCH DISCONNECTOR H3 SERIES

## - PLANS AND REFERENCES



| H3 SERIES |  | DIMENSIONS (mm) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT |
| HIO00A3PP | 600 | 500 | 200 | 1000 A |
| HIO00A4PP POLES |  |  |  |  |
| HI250A3PP | 600 | 500 | 200 | 1000 A |
| HI250A4PP | 600 | 500 | 200 | 1250 A |
| HI600A3PP | 600 | 500 | 200 | 1600 A |
| HI600A4PP | 800 | 600 | 250 | 1600 A |
| HI800A3PP | 800 | 600 | 250 | 4 |



## iHATHOR ATEX ENCLOSED SAFETY SWITCHES



Examples


## Provide Safety to your Property and your Personnel in Hazardous Areas

The Atex \& IECEx enclosed safety and isolation switch, iHATHOR Series allows work with a machine to safely maintain, clean and overhaul it as long as the switch is in the OFF position.
This kind of switch is commonly used in any industry which uses machines, because the electrical circuits and tri-phase asynchronous motors need the energy supply and the installation kept separate, in places considered as potentially explosive, such as zones $1,2,21$ and 22.

## $\Rightarrow$ <br> FOR MORE INFORMATION CLICK HERE



## iHATHOR EX ENCLOSED SAFETY SWITCH ATEX \& IECEX SERIES

## Robust and Easy to Install



Example 25A with standard selector


Example I80A with emergency selector

FOR MORE INFORMATION CLICK HERE

## ADVANTAGES

- It is impossible to start the machine when working on it thanks to the mechanical blocking of the disconnector.
- It gives a total block.

Atex e IECEx enclosed isolation switch with lid secured quickly by quarter turn of captive screw, available in currents $25 \mathrm{~A}, 40 \mathrm{~A}, 80 \mathrm{~A}$ and I80A. Allows work with a machine to safely maintain, clean and overhaul it as long as the switch is in the OFF position.lt's made up of two components:
It's made up of two components:

- The control component is a selector, which allows the current to go through the circuit or not. The ON position (I) allows the current, so blocks access to the machine through the mechanical blocker. The OFF position (0) blocks the current, to allow any work on the machine to be carried out.
- The isolation module allows the current to go through the circuit when the selector is in the ON position, and keep the current when the selector is in the OFF one.
This kind of switch is commonly used in any industry which uses machines, because the electrical circuits and tri-phase asynchronous motors need the energy supply and the installation kept separate in places considered as potentially explosive, such as zones I, 2, 2 I and 22 .
The switch is protected by a stainless steel AISI 3I6L enclosure, specifically designed, waterproof, antirust and with IP66 protection degree. It has a protection "Ex e" and "Ex d", which allows use in zones with a high explosion risk.
- It's a necessary device in order to carry out maintaining, cleaning or overhauling.
- Enclosure is made in AISI 316L stainless steel for marine or highly corrosive places.


## iHATHOR EX ENCLOSED SAFETY SWITCH ATEX \& IECEX SERIES

## 4 <br> FEATURES

The Ex switch rated current is between 25 and I80A.
It can work between two temperature ranges, which give it a higher use capacity.

- $-20^{\circ} \mathrm{C} \leq \mathrm{Ta} \leq 60^{\circ} \mathrm{C}$
- $-20^{\circ} \mathrm{C} \leq \mathrm{Ta} \leq 40^{\circ} \mathrm{C}$

The Ex enclosure has:

- The joint between the cover and body, is designed to secure an IP66 degree protection.
- The selector has an IP65 degree protection.
- It's designed with stainless steel AISI 304L.
- It includes two cable glands with "Ex e" protection in either M25 nickel plated brass or in stainless steel.
- It has four wall brackets.
- It has "Ex e" and "Ex d" protection, for use it in zones $1,2,21$ and 22 with explosive atmospheres with dust and gas.



## PROTECTION MODE

This equipment is certified for use in potentially explosive atmospheres in $1,2,21$ and 22 zones and it has "Ex e" and "Ex d" (protection).
Atex mark:

- II2G Ex de IICT6/T5 Gb
- II2D Extb IIICT85 ${ }^{\circ} \mathrm{C} / \mathrm{TI} 00^{\circ} \mathrm{C}$ Db
- Certificate number: LOMI4ATEX2082

IECEx mark:

- IECEX LOM I8.000IX
- Ex d e IICT6/T5 Gb
- Extb IIICT $85^{\circ} \mathrm{C} / \mathrm{T} I 00^{\circ} \mathrm{C} \mathrm{Db}$


## OPTIONS

- There are two kinds of Ex selector, one normal and the other an emergency selector, in red and yellow.
- Choice of poles between 3 poles, 3 poles + neutral, 4 poles and 6 poles.
- Possibility of including auxil iary contacts.
- Enclosure is made in AISI 316 L stainless steel for marine or highly corrosive places.
- Ex cable glands available in any size and thread.


## NORMATIVE

Atex directive and regulation:

- Atex directive 2014/34/EU
- EN 60079-0:2012
- EN 60079-I:2007
- EN 60079-7:20I5
- EN 60079-31:20IO

IECEx regulation:

- IEC 60079-0:20 I I
- IEC 60079-I:2006
- IEC 60079-7:20I5
- IEC 60079-31:2013

Enclosure regulation:

- IP regulation (IP65): IEC 60529
- IK regulation(IK I O): IEC 62262

Low voltage directive and regulation:

- Directive 2014/35/EU
- EN 61439-1201।
- EN 6|439-220|।


## iHATHOR EX ENCLOSED SAFETY SWITCH ATEX \& IECEX SERIES

## BLUEPRINT AND DIMENSIONS

The planes are the same for all models, even if the measurements change.


GUARANTEE FOR STAINLESS ANTICORROSIVE


| ATEX E IECEX IHATOR SAFETY AND ISOLATION SWITCH IN BOX - DIMENSIONS (mm) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25A |  |  |  |  |  |  |  |
|  | A | B | C | F | J | N | M |
| 3 P | 175 | 150 | 110 | D10 | R5 | 87,5 | 75 |
| 4P | 175 | 150 | 110 | DIO | R5 | 87,5 | 75 |
| $3 P+N$ | 175 | 150 | 110 | DIO | R5 | 87,5 | 75 |
| 6P | 175 | 150 | 150 | DIO | R5 | 87,5 | 75 |
| 40A |  |  |  |  |  |  |  |
|  | A | B | C | F | J | N | M |
| $3 P$ | 200 | 200 | 175 | DIO | R5 | 100 | 100 |
| 4P | 200 | 200 | 175 | DIO | R5 | 100 | 100 |
| $3 P+N$ | 200 | 200 | 175 | DIO | R5 | 100 | 100 |
| 6P | 200 | 200 | 210 | DIO | R5 | 100 | 100 |
| 80A |  |  |  |  |  |  |  |
|  | A | B | C | F | J | N | M |
| 3 P | 250 | 250 | 200 | DIO | R5 | 125 | 125 |
| 4P | 250 | 250 | 200 | DIO | R5 | 125 | 125 |
| $3 P+N$ | 250 | 250 | 200 | DIO | R5 | 125 | 125 |
| 6 P | 250 | 250 | 240 | DIO | R5 | 125 | 125 |
| 180A |  |  |  |  |  |  |  |
|  | A | B | C | F | 1 | N | M |
| 3 P | 350 | 275 | 250 | DIO | R5 | 175 | 137,5 |
| 4P | 350 | 275 | 250 | DIO | R5 | 175 | 137,5 |
| $3 P+N$ | 350 | 275 | 250 | DIO | R5 | 175 | 137,5 |
| 6 P | 350 | 275 | 300 | DIO | R5 | 175 | 137,5 |



## iHATHOR EX ENCLOSED SAFETY SWITCH ATEX \& IECEX SERIES

## ELECTRICAL DIAGRAM

The electrical diagram is the following in case you have chosen four poles.


## REFERENCES

This motor protection includes some different and as consequence of this we have created the next table to know the equipment's code.

Example safety switch in box with 25A rated current, handle in red colour, with 4 poles and one auxiliary contact normally open and another normally closed: SSIS/25-R-4P-NONC-EX

| TYPE | RATED CURRENT <br> (A) | HANDLE'S COLOUR SWITCH | NUMBER OF POLES | AUXILIARY CONTACTS | EX |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | To choose one | To choose between the black and red one | To choose between 3 poles, 3 poles + neutral, 4 poles and 6 poles | To choose one. In case of want nothing, not write |  |
| SSIS | $\begin{aligned} & 25 \\ & 40 \\ & 80 \\ & 180 \end{aligned}$ | R <br> N | $\begin{gathered} 3 P \\ 3 P N \\ 4 P \\ 6 P \end{gathered}$ | $\begin{gathered} \text { NONC } \\ 2 N C \\ 2 N O \\ \text { NC } \\ \text { NO } \end{gathered}$ | EX |

## IHATHOR EX ENCLOSED SWITCH DISCONNECTOR ATEX \& IECEX SERIES

## Robust and Easy to Install



Example 25A with emergency selector


Example 180A with standard selector

## $\rightarrow$ FOR MORE INFORMATION CLICK HERE

## ADVANTAGES

- It is impossible to start the machine when working on it thanks to the mechanical blocking of the disconnector.
- It gives a total block.

Atex e IECEx enclosed switch disconnector the enclosure has a hinged door, with door lock, made in stainless steel grade AISI 304 L available in currents 25A, 40A, 80A and 180 A . The cover is interlocked and can not be opened when switch is on. Suitable for outdoor and indoor use.
Allows work with a machine to safely maintain, clean and overhaul it as long as the switch is in the OFF position.It's made up of two components:

- The control component is a selector, which allows the current to go through the circuit or not. The ON position (I) allows the current, so blocks access to the machine through the mechanical blocker. The OFF position (0) blocks the current, to allow any work on the machine to be carried out.
- The isolation module allows the current to go through the circuit when the selector is in the ON position, and keep the current when the selector is in the OFF one.
This kind of switch is commonly used in any industry which uses machines, because the electrical circuits and tri-phase asynchronous motors need the energy supply and the installation kept separate, in places considered as potentially explosive, such as zones I, 2, 21 and 22. The switch is protected by a stainless steel AISI 316 L enclosure, specifically designed, waterproof, antirust and with IP66 protection degree. It has a protection "Ex e" and
"Ex d", which allows use in zones with a high explosion risk.
- It's a necessary device in order to carry out maintaining, cleaning or overhauling.
- Enclosure is made in AISI 316L stainless steel for marine or highly corrosive places.


## IHATHOR EX ENCLOSED SWITCH DISCONNECTOR ATEX \& IECEX SERIES

## $-$ <br> FEATURES

The Ex switch rated current is between 25 and 180 A .
It can work between two temperature ranges, which give it a higher use capacity.

- $-20^{\circ} \mathrm{C} \leq \mathrm{Ta} \leq 60^{\circ} \mathrm{C}$
- $-20^{\circ} \mathrm{C} \leq \mathrm{Ta} \leq 40^{\circ} \mathrm{C}$

The Ex enclosure has:

- The joint between the cover and body, is designed to secure an IP66 degree protection.
- The selector has an IP65 degree protection.
- It's designed with stainless steel AISI 304L.
- It includes two cable glands with "Ex e" protection in either M25 nickel plated brass or in stainless steel.
- It has four wall brackets.
- It has "Ex e" and "Ex d" protection, for use it in zones $1,2,21$ and 22 with explosive atmospheres with dust and gas.


PROTECTION MODE

This equipment is certified for use in potentially explosive atmospheres in $1,2,21$ and 22 zones and it has "Ex e" and "Ex d" (protection).
Atex mark:

- |I2G Ex d e IICT6/T5 Gb
- $\| 2 \mathrm{D} \mathrm{Extb}$ IIICT85 ${ }^{\circ} \mathrm{C} / \mathrm{TI} 00^{\circ} \mathrm{C}$ Db
- Certificate number: LOM I7ATEXIOI।

IECEx mark:

- ExdellCT6/T5 Gb
- Extb IIICT $85^{\circ} \mathrm{C} / \mathrm{T} I 00^{\circ} \mathrm{C} \mathrm{Db}$


## OPTIONS

- There are two kinds of Ex selector, one normal and the other an emergency selector, in red and yellow.
- Choice of poles between 3 poles, 3 poles + neutral, 4 poles and 6 poles.
- Possibility of including auxiliary contacts.
- Enclosure is made in AISI 316L stainless steel for marine or highly corrosive places.
- Ex cable glands available in any size and thread.


## NORMATIVE

Atex directive and regulation:

- Atex directive 2014/34/EU
- EN 60079-0:20I2
- EN 60079-I:2007
- EN 60079-7:20I5
- EN 60079-31:20IO

IECEx regulation:

- IEC 60079-0:20II
- IEC 60079-I:2006
- IEC 60079-7:20I5
- IEC 60079-31:2013

Enclosure regulation:

- IP regulation (IP65): IEC 60529
- IK regulation(IK I O): IEC 62262

Low voltage directive and regulation:

- Directive 2014/35/EU
- EN 6|439-1201I
- EN 6|439-220II


## IHATHOR EX ENCLOSED SWITCH DISCONNECTOR ATEX \& IECEX SERIES

## BLUEPRINT AND DIMENSIONS

The planes are the same for all models, even if the measurements change.



GUARANTEE
GUARANTEE ANTICORROSIVE


GUARANTEE
FOR MECHANICAL
PARTS

| ATEX E IECEX iHATOR SAFETY AND ISOLATION SWITCH IN CABINET - DIMENSIONS (mm) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25A |  |  |  |  |  |  |  |  |
|  | A | B | C | F | 1 | K | N | M |
| 3 P | 300 | 250 | 150 | DIO | R5 | D27 | 150 | 125 |
| 4 P | 300 | 250 | 150 | DIO | R5 | D27 | 150 | 125 |
| $3 P+N$ | 300 | 250 | 150 | DIO | R5 | D27 | 150 | 125 |
| 6 P | 300 | 250 | 200 | DIO | R5 | D27 | 150 | 125 |
| 40A |  |  |  |  |  |  |  |  |
|  | A | B | C | F | J | K | N | M |
| 3 P | 270 | 270 | 200 | DIO | R5 | D12 | 135 | 135 |
| 4 P | 270 | 270 | 200 | DIO | R5 | D12 | 135 | 135 |
| $3 \mathrm{P}+\mathrm{N}$ | 270 | 270 | 200 | DIO | R5 | DI2 | 135 | 135 |
| 6 P | 270 | 270 | 250 | DIO | R5 | D12 | 135 | 135 |
| 80A |  |  |  |  |  |  |  |  |
|  | A | B | C | F | 1 | K | N | M |
| 3 P | 300 | 300 | 200 | DIO | R5 | D12 | 150 | 150 |
| 4 P | 300 | 300 | 200 | DIO | R5 | D12 | 150 | 150 |
| $3 P+N$ | 300 | 300 | 200 | DIO | R5 | D12 | 150 | 150 |
| 6 P | 300 | 300 | 250 | DIO | R5 | D12 | 150 | 150 |
| 180A |  |  |  |  |  |  |  |  |
|  | A | B | C | F | J | K | N | M |
| 3P | 350 | 320 | 250 | DIO | R5 | DI2 | 175 | 160 |
| 4 P | 350 | 320 | 250 | DIO | R5 | D12 | 175 | 160 |
| $3 P+N$ | 350 | 320 | 250 | DIO | R5 | D12 | 175 | 160 |
| 6 P | 350 | 320 | 300 | DIO | R5 | D12 | 175 | 160 |



## IHATHOR EX ENCLOSED SWITCH DISCONNECTOR ATEX \& IECEX SERIES

## ELECTRICAL DIAGRAM

The electrical diagram is the following in case you have chosen four poles.


## REFERENCES

This motor protection includes some different and as consequence of this we have created the next table to know the equipment's code.

Example safety switch in cabinet with 40A rated current, handle in red colour, with 4 poles and one auxiliary contact normally open and another normally closed: SSIS/40-R-4P-NONC-EX-P

| TYPE | RATED CURRENT <br> (A) | $\begin{aligned} & \text { HANDLE'S } \\ & \text { COLOUR SWITCH } \end{aligned}$ | NUMBER OF POLES | AUXILIARY CONTACTS | EX-P |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | To choose one | To choose between the black and red one | To choose between 3 poles, 3 poles + neutral, 4 poles and 6 poles | To choose one. In case of want nothing, not write |  |
| SSIS | $\begin{aligned} & 25 \\ & 40 \\ & 80 \\ & 180 \end{aligned}$ | R <br> N | $\begin{gathered} 3 P \\ 3 P N \\ 4 P \\ 6 P \end{gathered}$ | $\begin{gathered} \mathrm{NONC} \\ 2 \mathrm{NC} \\ 2 \mathrm{NO} \\ \mathrm{NC} \\ \mathrm{NO} \end{gathered}$ | EX-P |

## iHATHOR GRP SAFETY AND ISOLATION SWITCH ATEX \& IECEX SERIES

Robust and Easy to Install


Example 16A


Example 25A


Example 40A


Example 80A


Example I80A
) FOR MORE INFORMATION CLICK HERE
The GRP Ex safety and isolation switch, allows work with a machine to safely maintain, clean and overhaul it as long as the switch is in the OFF position.

The GRP Ex safety and isolation switch are made of glass fibre reinforced polyester "Ex e". All the metal elements are anti-corrosive rust proof. Concave-convex joints between the covers and bodies are designed to mount an air-foam silicone bar, which secure an IP66 degree of protection. Terminal boxes are used for dividing and connecting wires for various electrical apparatus and instruments in the circuits. Installation is certified for zones $1,2,21$ and 22 ; with features of high corrosion protection, water -proof and dustproof, they can meet the requirements in chemical, petrochemical and marine industries. Separately certified Ex load isolation switch module is mounted inside. It can be used to disconnect the power when there is maintenance, clean and repair in the circuit with frenquency AC50/60Hz, rated voltage 230 V and 690 V , rated current $16 \sim 180 \mathrm{~A}$.

This kind of switch is commonly used in any industry which uses machines, because the electrical circuits and tri-phase asynchronous motors need the energy supply and the installation kept separate, in places considered as potentially explosive, such as zonesl, 2, 21 and 22.

## iHATHOR GRP SAFETY AND ISOLATION SWITCH ATEX \& IECEX SERIES

## CHARACTERISTICS

- Explosion protection:Zones 1, 2, 21 and 22.
- Degree of protection IP66.
- IECEx and Atex international certification.
- Switch is with interlock which is in the state of lock in, the switch is not turn on.
- Operation handle with padlock device.
- Utilization category: AC-23, AC-3.
- Enclosure features:
- The enclosures of black are made of glass fibre reinforced polyester and concave-convex joints between the covers and bodies are designed to mount an air-foam silicone bar.
- The entry may have polyamide, nickel-plated or stainless steel Ex cable glands. The unused entries must be sealed with the stopping plugs.


## - OPTIONS

- The Ex switch rated current is between: 18A, 25A, 40A, 80A and 180A.
- The switch has two models of selectors:
- black operation handle is standard type
- red/yellow operation handle is emergency stop type
- Choice of poles between 3 poles, 3 poles + neutral, 4 poles and 6 poles.
- Possibility of including auxiliary contacts.
- Atex cableglands:
- polyamide
- nickel-plated brass
- stainless steel AISI 303L, AISI 304L or AISI 316L



## ADVANTAGES

- It can be used to disconnect the power when there is maintenance, clean and repair in the circuit.
- Get a total stoppage of the machinery so that the necessary activities can be carried out without any risk to the operator.
- It is impossible to start the machine when working on it thanks to the mechanical blocking of the disconnector.
- Boxes reinforced polyester Atex boxes with high corrosion protection, water-proof and dustproof.


## iHATHOR GRP SAFETY AND ISOLATION SWITCH ATEX \& IECEX SERIES

## PROTECTION MODE

This equipment is certified for use in potentially explosive atmospheres in I, 2, 2I and 22 zones and it has "Ex e" and "Ex d" (protection). Atex mark:

- CML I9ATEX3303X
- \| 2GD Ex db eb || CT6/T5 Gb
- Ex tb $1 I I T 80^{\circ} \mathrm{C} / 795^{\circ} \mathrm{C} \mathrm{Db}$

IECEx mark:

- IECEX CML I9.0088X
- Ex db eb II CT6/T5 Gb
- Extb III CT80 ${ }^{\circ} \mathrm{C} / T 95^{\circ} \mathrm{C} \mathrm{Db}$

Atex directive and regulations:

- Atex directive 2014/34/UE
- EN 60079-0:20I8
- EN 60079-I:2014
- EN 60079-7:20I5
- EN 60079-31:2014

IECEx regulations:

- IEC 60079-0:20I8
- IEC 60079-I:2014
- IEC 60079-7:2015
- IEC 60079-3I:2014

Enclosure regulations:

- Degree of protection IP66
- Certificate numbers:
- IECEx CML I 9.0088X
- CML 19 ATEX 3303X
- Protection type:
- || 2GD Ex db eb ib mb IICT5 Gb
- Ex ib tb $\| I C T 95^{\circ} \mathrm{C} \mathrm{Db}$
- Normative:
- Directive 2014/34/EU
- Operating temperature (ambience):
- $-40^{\circ} \mathrm{C}<\mathrm{Ta}<+40 / 55^{\circ} \mathrm{C}$

Low voltage directive and regulation:

- Directive 2014/35/UE
- EN 6I439-I20II
- EN 6I439-220II


## ELECTRICAL DIAGRAM

The electrical diagram is the following in case you have chosen four poles.

iHATHOR GRP SAFETY AND ISOLATION SWITCH ATEX \& IECEX SERIES

## - DIMENSIONS AND REFERENCES



Safety switch 16A - 3P

| GRP SAFETY SWITCH - 16A |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATED CURRENT | VOLTAGE | TERMINAL | RATED INSULATION VOLTAGE | RATED IMPULSE WITHSTAND VOLTAGE | RATED SHORTTIME WITHSTAND CURRENT (lcw) | RATED SHORT-TIME MARKING CAPACITY |
| Max. 16A | Max. 400 V | $2 \times 2.5 \mathrm{~mm}^{2}$ | 690 V | 6 KV | IOKA | 17KA |




Safety switch 25A - 3P


Safety switch 25A - 6P

| GRP SAFETY SWITCH - 25A |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATED CURRENT | TERMINAL | CAPACITY OF SWITCH | RATED INSULATION VOLTAGE | RATED IMPULSE WITHSTAND VOLTAGE | RATED SHORT-TIME WITHSTAND CURRENT (Icw) | RATED SHORT-TIME MARKING CAPACITY |
| Max. 25A | $2 \times 4 \mathrm{~mm}^{2}$ | 230V 25A \| 400V 25A 500V 20A | 690V 16 A | 800 V | 6 KV | 3KA | IOKA |



Safety switch 40A - 3P

| GRP SAFETY SWITCH - 40A |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATED CURRENT | TERMINAL | CAPACITY OF SWITCH | RATED INSULATION VOLTAGE | RATED IMPULSE WITHSTAND VOLTAGE | RATED SHORT-TIME WITHSTAND CURRENT (lcw) | RATED SHORT-TIME MARKING CAPACITY |
| Max. 40A | $\begin{gathered} 2 \times 10 \mathrm{~mm}^{2} \\ 2 \times 4 \mathrm{~mm}^{2} \text { (auxiliary) } \end{gathered}$ | $230 \mathrm{~V} 40 \mathrm{~A} \mid 400 \mathrm{~V} 40 \mathrm{~A}$ $500 \mathrm{~V} 40 \mathrm{~A} \mid 690 \mathrm{~V} 32 \mathrm{~A}$ | 800 V | 6 KV | 3KA | IOKA |

iHATHOR GRP SAFETY AND ISOLATION SWITCH ATEX \& IECEX SERIES


Safety switch 80A - 3P \| 6P

| GRP SAFETY SWITCH - 80A |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATED CURRENT | TERMINAL | CAPACITY OF SWITCH | RATED INSULATION VOLTAGE | RATED IMPULSE WITHSTAND VOLTAGE | RATED SHORT-TIME WITHSTAND CURRENT (Icw) | RATED SHORT-TIME MARKING CAPACITY |
| Max. 80A | $\begin{gathered} 1 \times 35 \mathrm{~mm}^{2} \\ 2 \times 4 \mathrm{~mm}^{2} \text { (auxiliary) } \end{gathered}$ | $230 \mathrm{~V} 80 \mathrm{~A} \mid 400 \mathrm{~V} 80 \mathrm{~A}$ $500 \mathrm{~V} 80 \mathrm{~A} \mid 690 \mathrm{~V} 63 \mathrm{~A}$ <br> $500 \mathrm{~V} 80 \mathrm{~A} \mid 690 \mathrm{~V} 63 \mathrm{~A}$ | 800 V | 6 KV | 10 KA | 17KA |



Safety switch 180A-3P

| GRP SAFETY SWITCH - 180A |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RATED CURRENT | TERMINAL | CAPACITY OF SWITCH | RATED INSULATION VOLTAGE | RATED IMPULSE WITHSTAND VOLTAGE | RATED SHORT-TIME WITHSTAND CURRENT (low) | RATED SHORT-TIME MARKING CAPACITY |
| Max. I80A | $1 \times 50 / 70 \mathrm{~mm}^{2}$ (125A) <br> $1 \times 120 \mathrm{~mm}^{2}$ (180A) <br> $2 \times 4 \mathrm{~mm}^{2}$ (auxiliary) | $230 \mathrm{~V} 180 \mathrm{~A} \mid 400 \mathrm{~V} 180 \mathrm{~A}$ $500 \mathrm{~V} 150 \mathrm{~A} \mid 690 \mathrm{~V} 125 \mathrm{~A}$ | 800 V | 6 KV | IOKA | 17 KA |

Reference configuration, we have created the next table to know the equipment's code. Example: SSIS-GRP/25-R-4P-NONC-EX

| TYPE | RATED CURRENT <br> (A) | HANDLE'S COLOUR SWITCH | NUMBER OF POLES | AUXILIARY CONTACTS | EX |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | To choose one | To choose between the black and red one | To choose between 3 poles, 3 poles + neutral, 4 poles and 6 poles | To choose one. In case of want nothing, not write |  |
| SSIS-GRP | $\begin{aligned} & 16 \\ & 25 \\ & 40 \\ & 80 \\ & 180 \end{aligned}$ | $\begin{aligned} & R \\ & \mathrm{~N} \end{aligned}$ | $\begin{gathered} 3 P \\ 3 P N \\ 4 \mathrm{P} \\ 6 \mathrm{P} \end{gathered}$ | $\begin{gathered} \text { NONC } \\ 2 \mathrm{NC} \\ 2 \mathrm{NO} \\ \mathrm{NC} \\ \mathrm{NO} \end{gathered}$ | EX |

## iHATHOR ENCLOSED HYGIENIC SAFETY ISOLATORS



Examples


## Integral Sloping Roof Offers Additional Protection and Leads to Self-Draining of Liquids, Specially Designed for Food Industry

iHATHOR Hygienic Serie is a full line of safety and isolation switches with integral sloping roof offers additional protection and leads to self-draining of liquids, specially designed for food industry. No openings, hinges where bacteria could lie, moreover the inclination of the roof prevents objects being placed on the surface and our vertical electro polished finish helps repel liquids and prevent virus and bacteria building up on the surface.
iHATHOR enclosed hygienic safety isolators on-load, are available from 20A to 1800A, a large range for solving the different necessity of market.
Achieving an optimal design for facility it's installation and operation. Key on hand.
$\rightarrow \quad$ FOR MORE INFORMATION CLICK HERE


## iHATHOR ENCLOSED HYGIENIC SAFETY ISOLATORS

## APPLICATIONS

Hygienic safety switches installation where require special vigilance in compliance with their demanding regulations in places that require a high level of hygiene such as medical machinery, food industry, clean rooms, pharmaceutical industry,... iHATHOR hygienic safety switches are reliable and provide safety to your property and your personnel in addition to providing:

- Protection against overcurrent.
- Protection against circuit overloads.
- Protection against short circuiting.
- Protection against heat-generated damage.
Safety switches are designed to interrupt the power in the event of a single fault in the circuit. Custom solutions projects for small and large series. iHATHOR is certified UL, Nema 4x.


## OPTIONS

- The most standard products are presented, options are available upon request.
- Option multiple of switch, $\mathrm{n}^{\circ}$ of poles, current, aux. contacts,...
- Drills in base your needs.
- Option of different supports.
- Option of manufactured in different materials: stainless steel AISI 316L (enclosure maritime grade) or painted galvanized steel finish in RAL 7035 or another color.
- Design on IP67 or IP68 box.
- Possibility of Atex load switch.

A ADVANTAGES

- With electro-polished finish that helps dispel liquids and waterproof seal that prevents dirt and bacteria deposits.
- The monobloc manufacture gives total sealing and maximum resistance.
- No openings where bacteria could lie.
- Ready for installation
- Compact design.
- Possibilities in custom housing design.
- Versatility.
- Fast delivery time.
- Custom designs available.
- Quantity discount.


## - NORMATIVE

- Machinery Directive 2006/42/EC (previously 89/37/EC) Food machinery and cosmetic or pharmaceutic production.
- EHEDG Guideline Hygienic Design doc.I3 machinery for open processes.
- DIN EN 1672-2:2006 for food industry machinery. IEC/EN 60947-3
- IP66 Norm IEC EN 62208 and EN 60529.
- Maximum IKIO resistance Norm IEC62208 and IEC 62262.
- UE Directive of low voltage 2014/35/UE.
- Materials intended to come into contact with food, CE 1935/2004.
- Offhore, maritime grade IP66.
- UL Standard(s) Safety: UL508A- Industrial Control Panels, CSA C22.2 No. 14 Industrial Control Equipment.


## iHATHOR ENCLOSED SAFETY ISOLATORS HYGIENIC BKP SERIES



Example safety switch emergency

## Available in a Wide Range of Currents from 20A Up I 25A

iHATHOR enclosed hygienic safety isolators available in a wide range of currents from 20A up I25A. Is ideal for food handling facilities (clean rooms) or manufacturing processes which requires a high degree of hygiene. The European Hygienic Engineering \& Design Group (EHEDG) has certified the compatibility of the safety switches with food processing systems.
$\Rightarrow \quad$ FOR MORE INFORMATION CLICK HERE

| ACCORDING TOVDE 0660, IEC/EN 60947-3, IEC/EN 60947-5-1 |  |  |  | 20 | 25 | 40 | 63 | 80 | 125 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rated thermal current | Ith |  | A | 20 | 25 | 40 | 63 | 80 | 125 |
| Rated thermal current enclosed | \|the |  | A | 20 | 25 | 40 | 63 | 80 | 110 |
| Rated insulation voltage | Ui |  | V | 690 | 690 | 690 | 690 | 690 | 1000 |
| Rated impulse withstands voltage | Uimp |  | kV | 6 | 6 | 6 | 6 | 6 | 8 |
| Rated operational current AC | le | AC2IA | A | 20 | 25 | 40 | 63 | 80 | 125 |
| Making capacity | leff | $3 \times 380-440 \mathrm{~V}$ | A | 160 | 190 | 300 | 370 | 440 | 850 |
| Breaking capacity |  | $3 \times 220-240 \mathrm{~V}$ | A | 160 | 180 | 250 | 330 | 380 | 680 |
| Breaking capacity |  | $3 \times 380-440 \mathrm{~V}$ | A | 160 | 180 | 250 | 330 | 380 | 680 |
| Breaking capacity |  | $3 \times 660-690 \mathrm{~V}$ | A | 80 | 110 | 170 | 190 | 220 | 420 |
| Direct switching motors | AC3 | $3 \times 400 \mathrm{~V}$ | A | 12 | 16 | 30 | 37 | 37 | 72 |
| Direct switching motors | AC3 | $3 \times 220-240 \mathrm{~V}$ | kW | 3 | 4 | 7,5 | 11 | 11 | 22 |
| Direct switching motors |  | $3 \times 380-440 \mathrm{~V}$ | kW | 5,5 | 7,5 | 15 | 18,5 | 18,5 | 37 |
| Direct switching motors |  | $3 \times 660-690 \mathrm{~V}$ | kW | 5,5 | 7,5 | 15 | 18,5 | 18,5 | 30 |
| Main \& safety switch | AC23 | $3 \times 400 \mathrm{~V}$ | A | 16 | 20 | 32 | 45 | 45 | 85 |
| Main \& safety switch | AC23A | $3 \times 220-240 \mathrm{~V}$ | kW | 4 | 5,5 | 9 | 15 | 15 | 30 |
| Main \& safety switch | AC23B | $3 \times 380-440 \mathrm{~V}$ | kW | 7,5 | 10 | 16 | 22 | 22 | 45 |
| Main \& safety switch |  | $3 \times 660-690 \mathrm{~V}$ | kW | 5,5 | 7,5 | 15 | 18,5 | 18,5 | 37 |
| Rated conditional short- circuit current |  |  | kAeff | 10 | 10 | 10 | 10 | 10 | 10 |
| Max. fuse size | $\mathrm{gL}(\mathrm{gG})$ |  | A | 25 | 35 | 50 | 63 | 80 | 125 |
| Rated short-time withstand current Is. | Icw |  | A | 250 | 300 | 500 | 600 | 850 | 1500 |
| Mechanical life |  |  | $\times 10^{3}$ | 200 | 200 | 200 | 100 | 100 | 100 |
| CONNECTING CAPACITY |  |  |  |  |  |  |  |  |  |
| Solid or stranded cable |  |  | $\mathrm{mm}^{2}$ | 0,5-10 |  | 1-25 |  | 4-50 |  |
| Solid or stranded cable |  |  | AWG | 20-8 |  | 16-4 |  | 10-0 (10) |  |
| Flexible cable |  |  | $\mathrm{mm}^{2}$ | 0,5-6 |  | 4-16 |  | 10-35 |  |
| Flexible cable |  |  | AWG | 20-10 |  | 16-6 |  | 8-2 |  |
| Size of terminal screw |  |  |  | M3,5 |  | M5 |  | M6 |  |
| Tightening torque |  |  | Nm | 0,8-1,7 |  | 2-4 |  | 3,5-4,5 |  |

## ENCLOSED SAFETY ISOLATORS HYGIENIC BKP SERIES

## 4

PLANS AND REFERENCES


HYGIENIC BKP SERIES | 20A-25A-40A

| HYGIENIC BKP SERIES (20A - 25A - 40A) | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N POLES |
| BKP20A3PH | 380 | 300 | 150 | 20 | 3 |
| BKP20A4PH | 380 | 300 | 150 | 20 | 4 |
| BKP25A3PH | 380 | 300 | 150 | 25 | 3 |
| BKP25A4PH | 380 | 300 | 150 | 25 | 4 |
| BKP40A3PH | 380 | 300 | 150 | 40 | 3 |
| BKP40A4PH | 380 | 300 |  | 40 | 4 |

HYGIENIC BKP SERIES | 63A-80A

| HYGIENIC BKP SERIES (63A - 80A) | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N POLES |
| BKP63A3PH | 380 | 300 | 150 | 63 | 3 |
| BKP63A4PH | 380 | 300 | 150 | 63 | 4 |
| BKP80A3PH | 380 | 300 | 150 | 80 | 3 |
| BKP80A4PH | 380 | 300 | 150 | 80 | 4 |

HYGIENIC BKP SERIES | IOOA-I25A

| HYGIENIC BKP SERIES (100A - 125A) | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | $\mathrm{N}^{\circ}$ POLES |
| BKP I 00A3PH | 380 | 300 | 150 | 100 | 3 |
| BKPI OOA4PH | 380 | 300 | 150 | 100 | 4 |
| BKPI25A3PH | 380 | 300 | 150 | 125 | 3 |
| BKPI 25A4PH | 380 | 300 | 150 | 125 | 4 |

## iHATHOR ENCLOSED SAFETY ISOLATORS HYGIENIC HO SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Enclosed hygienic safety isolators on-load Hygienic H0 Series, are available from 125 A for 250A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to I 00kA. Is ideal for food handling facilities (clean rooms) or manufacturing processes which requires a high degree of hygiene. The European Hygienic Engineering \& Design Group (EHEDG) has certified the compatibility of the safety switches with food processing systems.

[^1]
## TECHNICAL INFORMATION

| iHATHOR ENCLOSED HYGIENIC SAFETY ISOLATORS - HYGIENIC HO SERIES |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACCORDING TO IEC/EN 60947-3 |  |  |  |  | 125 | 160 | 200 | 250 |
| Rated thermal current in ambient at | Ith | $40^{\circ} \mathrm{C}$ |  | A | 125 | 160 | 200 | 250 |
| Rated thermal current in ambient at | Ith | $50^{\circ} \mathrm{C}$ |  | A | 125 | 160 | 200 | 250 |
| Rated thermal current in ambient at | \|th | $60^{\circ} \mathrm{C}$ |  | A | 125 | 160 | 200 | 250 |
| Rated insulation voltage | Ui |  |  | $\checkmark$ | 1000 | 1000 | 1000 | 1000 |
| Rated impulse withstands voltage | Uimp |  |  | kV | 8 | 8 | 8 | 8 |
| AC rated operational current*(1) | le | Ue 400V | AC2IA | A | 125 | 160 | 200 | 250 |
| AC rated operational current*(1) | le | Ue 400V | AC22A | A | 125 | 160 | 200 | $250 * *$ |
| AC rated operational current*(1) | le | Ue 400V | AC23A | A | 125 | 160 | 160 | 160 |
| Rated breaking capacity |  | 400 V | AC23 | A | 1000 | 1280 | 1280 | 1280 |
| Rated making capacity |  | 400 V | AC23 | A | 1250 | 1600 | 1600 | 1600 |
| SHORT - CIRCUIT BEHAVIOUR |  |  |  |  | 125 | 160 | 200 | 250 |
| Rated short-circuit making capacity*(2) |  | 1 cm | kA (beak) |  | 13 | 13 | 13 | 13 |
| Rated short-time withstand current I s . |  | Icw | kA rms |  | 7 | 7 | 7 | 7 |
| MECHANICAL FEATURES |  |  |  |  | 125 | 160 | 200 | 250 |
| Number of mechanical operations (according to the standars, for other values please consult) |  |  | Cycles |  | 8000 | 8000 | 8000 | 8000 |
| Maximum weight $3 P$ |  |  | Kg |  | 0,85 | 0,85 | 0,9 | 0,9 |
| Maximum weight $3 P+N$ |  |  | Kg |  | 1 | 1 | । | 1 |

*(1) Rated operational frenquency $50 / 60 \mathrm{~Hz}$. Other voltages or utilization categories. Please consult.
${ }^{*}(2)$ Without limiting protective device (short-circuit maintained 50 ms . - 100 ms .)
*(3) Intensidad de empleo AC22B.


4 P
Also available 4P switch disconnectors under request

## ENCLOSED SAFETY ISOLATORS HYGIENIC HO SERIES

## 4 PLANS AND REFERENCES



| HYGIENIC HO SERIES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\circ}$ POLES |
| HI25A3PPH | 500 | 300 | 155 | 125A | 3 |
| HI60A3PPH | 500 | 300 | 155 | 160A | 3 |
| HI25A4PPH | 500 | 300 | 155 | 125 A | 4 |
| HI60A4PPH | 500 | 300 | 155 | 160A | 4 |
| HI25A3PBH | 500 | 300 | 155 | 125A | 3 |
| HI60A3PBH | 500 | 300 | 155 | 160A | 3 |
| H200A3PBH | 500 | 300 | 155 | 200A | 3 |
| HI25A4PBH | 500 | 300 | 155 | 125 A | 4 |
| HI60A4PBH | 500 | 300 | 155 | 160 A | 4 |
| H200A4PBH | 500 | 300 | 155 | 200A | 4 |
| H200A3PPH | 500 | 300 | 155 | 200A | 3 |
| H250A3PPH | 500 | 300 | 155 | 250A | 3 |
| H200A4PPH | 500 | 300 | 155 | 200A | 4 |
| H250A4PPH | 500 | 300 | 155 | 250A | 4 |



## iHATHOR ENCLOSED SAFETY ISOLATORS HYGIENIC HI SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Enclosed hygienic safety isolators on-load Hygienic HI Series, are available from 3I5A for 400A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA . Is ideal for food handling facilities (clean rooms) or manufacturing processes which requires a high degree of hygiene. The European Hygienic Engineering \& Design Group (EHEDG) has certified the compatibility of the safety switches with food processing systems.
$\Rightarrow$ FOR MORE INFORMATION CLICK HERE

## TECHNICAL INFORMATION


*(1) Rated operational frenquency $50 / 60 \mathrm{~Hz}$. Other voltages or utilization categories. Please consult.
${ }^{*(2)}$ Without limiting protective device (short-circuit maintained 50 ms . - 100 ms .)


4 P
Also available 4P switch disconnectors under request

## enclosed safety ISOLATORS HYGIENIC HI SERIES

## - PLANS AND REFERENCES



| HYGIENIC HI SERIES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\circ}$ POLES |
| H3I5A3PPH | 600 | 380 | 210 | $315 A$ | 3 |
| H315A4PPH | 600 | 380 | 210 | $315 A$ | 4 |
| H400A3PPH | 600 | 380 | 210 | $400 A$ | 3 |
| H400A4PPH | 600 | 380 | 210 | $400 A$ | 4 |



## iHATHOR ENCLOSED SAFETY ISOLATORS HYGIENIC H2 SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Enclosed hygienic safety isolators on-load Hygienic H2 Series, are available from 500A for 800A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA . Is ideal for food handling facilities (clean rooms) or manufacturing processes which requires a high degree of hygiene. The European Hygienic Engineering \& Design Group (EHEDG) has certified the compatibility of the safety switches with food processing systems.

FOR MORE INFORMATION CLICK HERE

## TECHNICAL INFORMATION


${ }^{*}{ }^{(1)}$ Rated operational frenquency $50 / 60 \mathrm{~Hz}$. Other voltages or utilization categories. Please consult.
${ }^{*(2)}$ Without limiting protective device (short-circuit maintained 50 ms . - 100 ms .)


4P
Also available 4P switch disconnectors under request

## ENCLOSED SAFETY ISOLATORS HYGIENIC H2 SERIES

## $\triangle$ PLANS AND REFERENCES



HYGIENIC H2 SERIES
DIMENSIONS (mm)

| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | No POLES |
| :--- | :---: | :---: | :---: | :---: | :---: |
| H500A3PPH | 600 | 400 | 300 | 500 A | 3 |
| H500A4PPH | 600 | 400 | 300 | 500 A | 4 |
| H630A3PPH | 600 | 400 | 300 | 630 A | 3 |
| H630A4PPH | 600 | 400 | 300 | 630 A | 4 |
| H800A3PPH | 600 | 400 | 300 | 800 A | 3 |
| H800A4PPH | 600 | 400 | 300 | 4 |  |



## iHATHOR ENCLOSED SAFETY ISOLATORS HYGIENIC HZ SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Enclosed hygienic safety isolators on-load Hygienic H3 Series, are available from I000A for I 800A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA . Is ideal for food handling facilities (clean rooms) or manufacturing processes which requires a high degree of hygiene. The European Hygienic Engineering \& Design Group (EHEDG) has certified the compatibility of the safety switches with food processing systems.

FOR MORE INFORMATION CLICK HERE

## TECHNICAL INFORMATION


${ }^{*(1)}$ Rated operational frenquency $50 / 60 \mathrm{~Hz}$. Other voltages or utilization categories. Please consult.


4 P
Also available 4P switch disconnectors under request

## ENCLOSED SAFETY ISOLATORS HYGIENIC H3 SERIES

## 4

PLANS AND REFERENCES

| HYGIENIC H3 SERIES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\text {P POLES }}$ |
| HI000A3PPH | 800 | 600 | 300 | 1000A | 3 |
| HIO00A4PPH | 800 | 600 | 300 | 1000A | 4 |
| HI250A3PPH | 800 | 600 | 300 | 1250A | 3 |
| HI250A4PPH | 800 | 600 | 300 | 1250A | 4 |
| HI600A3PPH | 800 | 600 | 300 | 1600A | 3 |
| HI600A4PPH | 800 | 600 | 300 | 1600A | 4 |
| HI800A3PPH | 800 | 600 | 300 | 1800A | 3 |
| HI800A4PPH | 800 | 600 | 300 | 1800A | 4 |



## EMC SERIES iHATHOR SAFETY SWITCHES

Electromagnetic Compatibility is defined in the EMC Directive as "the ability of equipments to function satisfactorily in a electromagnetic environment without introducing intolerable electromagnetic disturbances to other equipment in the same environment" and covers two basic principles:

- Not to disturb the other equipment and not to emit disturbances above a given level (this is called "disturbance emission").
- Not to be disturbed by other equipment with a sufficient level of protection so as not to be disturbed easily (this is called "disturbance immunity").

Electric, magnetic and electromagnetic fields are everywhere. Also around safety and isolation switches: they are mostly conventional electromagnetic fields such as grid connection lines, signal and control lines, and electrical and electronic modules which radiate electromagnetic fields.
iHATHOR safety and isolation switches gives the protection needed for conventional electromagnetic fields. However, for some intense electromagnetic fields like microwaves, EDM facilities by arc, HF welding technique it is necessary to create a complete screening effect.

## EFFECTIVENESS OF SCREENING IN EMC IHATHOR SWITCHES

iHATHOR safety and isolation switches offer optimum shielding effect to achieve electromagnetic compatibility, both in conventional and strong electromagnetic fields.

| FRECUENCY | ELECTRIC FIELD AND PLANE WAVES |
| :---: | :---: |
| 200 MHz | 78 dB |
| 400 MHz | 64 dB |
| 500 MHz | 66 dB |
| 600 MHz | 67 dB |
| 700 MHz | 64 dB |
| 800 MHz | 60 dB |
| 900 MHz | 58 dB |




| FRECUENCY | MAGNETIC FIELD | ELECTRIC FIELD |
| :---: | :---: | :---: |
| 2 MHz | -- | 66 dB |
| 3 MHz | 63 dB | -- |
| 10 MHz | 80 dB | 75 dB |
| 20 MHz | 80 dB | 69 dB |
| 30 MHz | 70 dB | 65 dB |


| FRECUENCY | PLANE WAVES |
| :---: | :---: |
| 1 GHz | 86 dB |
| 3 GHz | 86 dB |
| 5 GHz | 80 dB |
| 10 GHz | 69 dB |
| 15 GHz | 60 dB |
| 18 GHz | 50 dB |



## EMC SERIES iHATHOR SAFETY SWITCHES



Examples


iHATHOR EMC Series is a full line of safety and isolation switches of indoor and outdoor applications (made in stainless steel AISI 304L). We design and manufacture every product ourselves in our own factories. Focused heavily on safety, iHATHOR's switching device product line brings state-of-the art designs that can even be customized to fit your unique needs. iHATHOR switch disconnectors onload, are available from 20A to I800A, a large range for solving the different necessity in a electromagnetic environment
Achieving an optimal design for facility it's installation and operation. Key on hand.


## EMC SERIES iHATHOR SAFETY SWITCHES

APPLICATIONS

Safely cut off electricity in your electrical installations: aeronautics, medical equipment, professional electronics, safe in solar and wind renewable energy, offshore, maritime, power distribution, food industry, manufacturing machinery and other general industries.
iHATHOR safety switches are reliable and provide safety to your property and your personnel in addition to providing:

- Protection against in a electromagnetic environment.
- Protection against overcurrent.
- Protection against circuit overloads.
- Protection against short circuiting.


## NORMATIVE

- Complies with 2014/30/UE and EMC Directive 2014/35/UE.
- IEC/EN 60947-3
- IP66 Norm IEC EN 62208 and EN 60529.
- Maximum IKIO resistance Norm IEC62208 and IEC 62262.
- UE Directive of low voltage 2014/35/UE.
- Materials intended to come into contact with food, CE 1935/2004.
- Offhore, maritime grade IP66.
- UL Standard(s) Safety: UL508AIndustrial Control Panels, CSA C22.2 No. I4- Industrial Control Equipment.
- Ready for installation in a electromagnetic environment.
- Compact design.
- Possibilities in custom housing design.
- Versatility.
- Fast delivery time.
- Custom designs available.
- Quantity discount.



## OPTIONS

- The most standard products are presented, options are available upon request.
- Option multiple of switch, $n^{\circ}$ of poles, current, aux. contacts,...
- Drills in base your needs.
- Option of different supports.
- Option of manufactured in different materials: stainless steel AISI 3I6L (enclosure maritime grade) or painted galvanized steel finish in RAL 7035 or another color.
- Design on IP67 or IP68 box.
- Possibility of Atex load switch.


## iHATHOR SWITCH DISCONNECTOR EMC BKP SERIES



Example 20A-25A - 40A


Example 63A - 80A

## Available in a Wide Range of Currents from 20A Up I25A

iHATHOR switch disconnectors available in a wide range of currents from 20A up 125A. EMC BKP Series has been designed according to standard IEC/EN60947-3 and 2014/30/ UE for its use in low voltage civil and industrial installations and electromagnetic environment; also are certificated to UL 508 for use as manual motor controllers.
$\rightarrow$ FOR MORE INFORMATION CLICK HERE


Example 100A - I25A

## TECHNICAL INFORMATION

| iHATHOR SWITCH DISCONNECTORS - EMC BKP SERIES |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACCORDING TOVDE 0660, IEC/EN 60947-3, IEC/EN 60947-5-1 |  |  |  | 20 | 25 | 40 | 63 | 80 | 125 |
| Rated thermal current | lth |  | A | 20 | 25 | 40 | 63 | 80 | 125 |
| Rated thermal current enclosed | Ithe |  | A | 20 | 25 | 40 | 63 | 80 | 110 |
| Rated insulation voltage | Ui |  | V | 690 | 690 | 690 | 690 | 690 | 1000 |
| Rated impulse withstands voltage | Uimp |  | kV | 6 | 6 | 6 | 6 | 6 | 8 |
| Rated operational current AC | le | AC2IA | A | 20 | 25 | 40 | 63 | 80 | 125 |
| Making capacity | leff | $3 \times 380-440 \mathrm{~V}$ | A | 160 | 190 | 300 | 370 | 440 | 850 |
| Breaking capacity |  | $3 \times 220-240 \mathrm{~V}$ | A | 160 | 180 | 250 | 330 | 380 | 680 |
| Breaking capacity |  | $3 \times 380-440 \mathrm{~V}$ | A | 160 | 180 | 250 | 330 | 380 | 680 |
| Breaking capacity |  | $3 \times 660-690 \mathrm{~V}$ | A | 80 | 110 | 170 | 190 | 220 | 420 |
| Direct switching motors | AC3 | $3 \times 400 \mathrm{~V}$ | A | 12 | 16 | 30 | 37 | 37 | 72 |
| Direct switching motors | AC3 | $3 \times 220-240 \mathrm{~V}$ | kW | 3 | 4 | 7,5 | 11 | 11 | 22 |
| Direct switching motors |  | $3 \times 380-440 \mathrm{~V}$ | kW | 5,5 | 7,5 | 15 | 18,5 | 18,5 | 37 |
| Direct switching motors |  | $3 \times 660-690 \mathrm{~V}$ | kW | 5,5 | 7,5 | 15 | 18,5 | 18,5 | 30 |
| Main \& safety switch | AC23 | $3 \times 400 \mathrm{~V}$ | A | 16 | 20 | 32 | 45 | 45 | 85 |
| Main \& safety switch | AC23A | $3 \times 220-240 \mathrm{~V}$ | kW | 4 | 5,5 | 9 | 15 | 15 | 30 |
| Main \& safety switch | AC23B | $3 \times 380-440 \mathrm{~V}$ | kW | 7,5 | 10 | 16 | 22 | 22 | 45 |
| Main \& safety switch |  | $3 \times 660-690 \mathrm{~V}$ | kW | 5,5 | 7,5 | 15 | 18,5 | 18,5 | 37 |
| Rated conditional short- circuit current |  |  | kAeff | 10 | 10 | 10 | 10 | 10 | 10 |
| Max. fuse size | $\mathrm{gL}(\mathrm{gG})$ |  | A | 25 | 35 | 50 | 63 | 80 | 125 |
| Rated short-time withstand current Is. | Icw |  | A | 250 | 300 | 500 | 600 | 850 | 1500 |
| Mechanical life |  |  | $\times 10^{3}$ | 200 | 200 | 200 | 100 | 100 | 100 |
| CONNECTING CAPACITY |  |  |  |  |  |  |  |  |  |
| Solid or stranded cable |  |  | $\mathrm{mm}^{2}$ |  |  |  |  |  |  |
| Solid or stranded cable |  |  | AWG |  |  |  |  |  |  |
| Flexible cable |  |  | $\mathrm{mm}^{2}$ |  |  |  |  |  |  |
| Flexible cable |  |  | AWG |  |  |  |  |  |  |
| Size of terminal screw |  |  |  |  |  |  |  |  |  |
| Tightening torque |  |  | Nm |  |  |  |  |  |  |

## iHATHOR SWITCH DISCONNECTOR EMC BKP SERIES

- PLANS AND REFERENCES

BKP SERIES | 20A-25A-40A


| EMC BKP SERIES (20A - 25A - 40A) | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\circ}$ POLES |
| BKP20A3PM | 160 | 160 | 90 | 20 | 3 |
| BKP20A4PM | 160 | 160 | 90 | 20 | 4 |
| BKP25A3PM | 160 | 160 | 90 | 25 | 3 |
| BKP25A4PM | 160 | 160 | 90 | 25 | 4 |
| BKP40A3PM | 160 | 160 | 90 | 40 | 3 |
| BKP40A4PM | 160 | 160 | 90 | 40 | 4 |

BKP SERIES | 63A-80A


| EMC BKP SERIES (63A - 80A) | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\circ}$ POLES |
| BKP63A3PM | 200 | 200 | 120 | 63 |  |
| BKP63A4PM | 200 | 200 | 120 | 3 |  |
| BKP8AA3PM | 200 | 200 | 120 | 63 | 4 |
| BKP80A4PM | 200 | 200 | 120 | 80 | 3 |

BKP SERIES | IO0A-I25A


| EMC BKP SERIES (IOOA - 125A) | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\circ}$ POLES |
| BKPI 00A3PM | 200 | 200 | 120 | 100 |  |
| BKPIO0A4PM | 200 | 200 | 120 | 100 | 4 |
| BKPI25A3PM | 200 | 200 | 120 | 125 | 4 |
| BKPI25A4PM | 200 | 200 | 120 | 125 | 3 |

## iHATHOR SWITCH DISCONNECTOR EMC HO SERIES

Rated Breaking Current of Up to 8 Times the Rated Operational Current

Switch disconnectors on-load EMC HO Series, are available from 125 A for 250A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA ; uninterrupted duties in extreme tropic and polar conditions, as well electromagnetic environment.

Example
FOR MORE INFORMATION CLICK HERE

## TECHNICAL INFORMATION


*(1) Other voltages and/or utilization categories. Please consult.
*(2) Without limiting protective device (short-circuit maintained 50 ms . - 100 ms .)
*(3) Intensidad de empleo AC22B.


4 P
Also available 4P switch -
disconnectors under request

## iHATHOR SWITCH DISCONNECTOR EMC HO SERIES

## - PLANS AND REFERENCES



| EMC HO SERIES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | $\mathrm{N}^{\circ}$ POLES |
| HI25A3PPM | 300 | 200 | 150 | 125 A | 3 |
| HI60A3PPM | 300 | 200 | 150 | 160 A | 3 |
| HI25A4PPM | 300 | 200 | 150 | 125 A | 4 |
| HI60A4PPM | 300 | 200 | 150 | 160 A | 4 |
| HI25A3PBM | 300 | 200 | 150 | 125 A | 3 |
| HI60A3PBM | 300 | 200 | 150 | 160 A | 3 |
| H200A3PBM | 300 | 200 | 150 | 200A | 3 |
| HI25A4PBM | 300 | 200 | 150 | 125A | 4 |
| HI 60A4PBM | 300 | 200 | 150 | 160 A | 4 |
| H200A4PBM | 300 | 200 | 150 | 200A | 4 |
| H200A3PPM | 400 | 300 | 150 | 200A | 3 |
| H250A3PPM | 400 | 300 | 150 | 250A | 3 |
| H200A4PPM | 400 | 300 | 150 | 200A | 4 |
| H250A4PPM | 400 | 300 | 150 | 250A | 4 |



## iHATHOR SWITCH DISCONNECTOR ENC HI SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Switch disconnectors on-load EMC HI Series, are available from 3I5A for 400A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA ; uninterrupted duties in extreme tropic and polar conditions, as well electromagnetic environment.
$\Rightarrow \quad$ FOR MORE INFORMATION CLICK HERE

## TECHNICAL INFORMATION


*(1) Other voltages and/or utilization categories. Please consult.
*(2) Without limiting protective device (short-circuit maintained 50ms. - 100 ms .)


4 P
Also available 4P switch disconnectors under request

## iHATHOR SWITCH DISCONNECTOR EMC HI SERIES

## 4 PLANS AND REFERENCES



| EMC HI SERIES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N POLES |
| H3I5A3PPM | 400 | 300 | 150 | 315 A | 3 |
| H315A4PPM | 400 | 300 | 150 | $315 A$ | 4 |
| H400A3PPM | 500 | 400 | 200 | 400 A |  |
| H400A4PPM | 500 | 400 | 200 | 400 A | 3 |



## iHATHOR SWITCH DISCONNECTOR ENC HZ SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Switch disconnectors on-load EMC H2 Series, are available from 500A for 800A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA ; uninterrupted duties in extreme tropic and polar conditions, as well electromagnetic environment.

[^2]
## TECHNICAL INFORMATION


*(1) Other voltages and/or utilization categories. Please consult.
*(2) Without limiting protective device (short-circuit maintained 50 ms . - 100 ms .)


4P
Also available 4P switch disconnectors under request

## iHATHOR SWITCH DISCONNECTOR EMC H2 SERIES

## $\angle$ PLANS AND REFERENCES



| EMC H2 SERIES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N POLES |
| H500A3PPM | 500 | 400 | 200 | $500 A$ | 3 |
| H500A4PPM | 500 | 400 | 200 | $500 A$ | 4 |
| H630A3PPM | 500 | 400 | 200 | $630 A$ | 3 |
| H630A4PPM | 500 | 400 | 200 | $630 A$ | 4 |
| H800A3PPM | 500 | 400 | 200 | $800 A$ | 3 |
| H800A4PPM | 500 | 400 | 200 | 4 | 4 |



## iHATHOR SWITCH DISCONNECTOR EMC H3 SERIES



Example

## Rated Breaking Current of Up to 8 Times the Rated Operational Current

Switch disconnectors on-load EMC H3 Series, are available from I000A for I 800A, versions under request on order. Rated breaking current of up to 8 times the rated operational current, with ability to establish and support short circuit currents up to 100 kA ; uninterrupted duties in extreme tropic and polar conditions, as well electromagnetic environment.
$\rightarrow$ FOR MORE INFORMATION CLICK HERE

## TECHNICAL INFORMATION

| iHATHOR SWITCH DISCONNECTORS - EMC H3 SERIES |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACCORDING TO IEC/EN 60947-3 |  |  |  |  | 1000 | 1250 | 1600 | 1800 |
| Rated thermal current in ambient at | lth | $40^{\circ} \mathrm{C}$ |  | A | 1000 | 1250 | 1600 | 1800 |
| Rated thermal current in ambient at | lth | $50^{\circ} \mathrm{C}$ |  | A | 1000 | 1250 | 1600 | 1800 |
| Rated thermal current in ambient at | lth | $60^{\circ} \mathrm{C}$ |  | A | 1000 | 1250 | 1600 | 1600 |
| Rated insulation voltage | Ui |  |  | V | 1000 | 1000 | 1000 | 1000 |
| Rated impulse withstands voltage | Uimp |  |  | kV | 12 | 12 | 12 | 12 |
| AC rated operational current** ${ }^{(1)}$ | le | Ue 400V | AC2IA | A | 1000 | 1250 | 1600 | 1800 |
| AC rated operational current** ${ }^{(1)}$ | le | Ue 400V | AC22A | A | 1000 | 1250 | 1600 | 1800 |
| AC rated operational current* ${ }^{*}$ ( $)$ | le | Ue 400V | AC23A | A | - | - | 1600 | 1800 |
| AC rated operational current**(1) | le | Ue 800V | AC2IB | A | - | - | - | 1250 |
| Rated breaking capacity |  | 400 V | AC23 | A | 3000 | 3750 | 4800 | 5400 |
| Rated making capacity |  | 400 V | AC23 | A | 3000 | 3750 | 4800 | 5400 |
| SHORT - CIRCUIT BEHAVIOUR |  |  |  |  | 1000 | 1250 | 1600 | 1800 |
| Rated short-circuit making capacity* ${ }^{*}$ (2) |  | Icm | kA (beak) |  | 60 | 60 | 75 | 75 |
| Rated short-time withstand current Is. |  | Icw | kA rms |  | 25 | 25 | 50 | 50 |
| MECHANICAL FEATURES |  |  |  |  | 1000 | 1250 | 1600 | 1800 |
| Number of mechanical operations (according to the standars, for other values please consult) |  |  | Cycles |  | 3000 | 3000 | 3000 | 3000 |
| Maximum weight 3P |  |  | Kg |  | 18,5 | 18,5 | 18,5 | 18,5 |
| Maximum weight $3 P+N$ |  |  | Kg |  | 20,8 | 20,8 | 20,8 | 20,8 |

*(1) Other voltages and/or utilization categories. Please consult.
*(2) Without limiting protective device (short-circuit maintained 50 ms . - 100 ms .)

4P
Also available 4P switch disconnectors under request

## iHATHOR SWITCH DISCONNECTOR EMC H3 SERIES

## $\triangle$ PLANS AND REFERENCES



| EMC H3 SERIES | DIMENSIONS (mm) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REFERENCES | HEIGHT (A) | WIDTH (B) | DEPTH (C) | CURRENT | N ${ }^{\circ}$ POLES |
| HI000A3PPM | 600 | 500 | 200 | 1000A | 3 |
| HI000A4PPM | 600 | 500 | 200 | 1000A | 4 |
| HI250A3PPM | 600 | 500 | 200 | 1250A | 3 |
| HI250A4PPM | 600 | 500 | 200 | 1250A | 4 |
| HI600A3PPM | 800 | 600 | 250 | 1600A | 3 |
| HI600A4PPM | 800 | 600 | 250 | 1600A | 4 |
| HI800A3PPM | 800 | 600 | 250 | 1800A | 3 |
| HI800A4PPM | 800 | 600 | 250 | 1800A | 4 |


iHATHOR - Safety and Isolation Switches
Specialising in safety switches, isolation switches and disconnectors


## CUSTOMIZED SWITCHES SOLUTIONS iHATHOR

The customized manufacture of all safety and isolation switches iHATOR is carry out with the most advanced technical methods and with the precision and consciousness of a craftsman. Therefore, it is not an accident that our company has been present in the market for many years: it is the result of hard work and effort by many people.

In iHATHOR we bear in mind that customers perceive the quality very clearly safety and useful solutions are what customers value most. Nowadays we have license to use the most exigents certifications. Our flexible manufacturing environment greatly reduces the costs associated with changeovers and small production lots.


ATEX SAFETY SWITCHES


UL 98 AND UL 508
SAFETY SWITCHES


## SLOPED ROOF HYGIENIC SWITCHES

IECEX SAFETY SWITCHES


EMC SWITCHES
DISCONNECTORS

CORROSION RESISTANT SWITCHES


## WEATHERPROOF AND DUST-TIGHT SWITCHES

Buy direct from manufacturer of custom made IP66 heavy duty industrial and waterproof switches AISI 304L and 316 L made by standard IEC 60529 . iHATHOR has tested all sizes and dimensions of waterproof enclosures according to EN 60529:2018. All weather resistant enclosures are more than simply rainproof, they meet a minimum of Nema 4X and IP66 requirements to ensure your electronics are protected. From safety switches to disconnectors, iHATHOR weatherproof enclosures offer a wide range of sizes and styles to keep your project waterproof.


CABLE GLANDS
FOR SAFE AREAS

## CABLE GLANDS <br> FOR ATEX AREAS



## HEAVY DUTY SAFETY SWITCHES



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[^0]:    FOR MORE INFORMATION CLICK HERE

[^1]:    $\Rightarrow$
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[^2]:    $\rightarrow$ FOR MORE INFORMATION CLICK HERE

