

ENERGY SOLUTIONS


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Mr．SanderscndMres）Fulton
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superior switch solutions

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In 1950 a Dutch - UK joint venture started for making the switches in the Netherlands


In 1970 Santon Switchgear became a 100 \% Dutch company



COMPANY

In-house R\&D department

Production, highly automated

ISO 9001-2008 certified

Turnover levels around $€$ 20 M


Over 90 years of experience

Experience with wide range of AC and DC switches
$100 \%$ Production in Rotterdam (NL)

Focused on high quality

Efficient due to lean management

Highly automated machinepark

COMPANY


## SUPERIOR



With a Santon switch you are guaranteed to have purchased the very best switch available with maximum continuity and safety precautions for your installations and your employees.

## SOLAR PRODUCTS

## X－TYPE <br> 星 <br> <br> \section*{都 <br> <br> \section*{都 <br> <br> <br> 路} <br> <br> <br> 路} <br>  <br>  <br> X－TYPE <br> 

## PRODUCTS <br>  <br> － <br> $-$

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Specially designed for the DC industry

Smallest design possible

Extremely short power shut off time of approx. 3ms

Wide electrical range up to 45
 amp per pole

Multi-pole solutions (AC and DC) due to modular conceptModels available for Dinrail mounting as well as for single hole mounting

Many accessories available

Meets standards IEC60947-1/3,
 Ul508i and CCC

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## X－type ratings

| Voltage（DC21） <br> Amp ratings | XA | XB | XC（IFC） | XB HP <br> （High Performance ） |
| :---: | :---: | :---: | :---: | :---: |
| 1500 V |  |  | 20 A |  |
| 1100 V |  |  |  | 10 A |
| 1000 V | 16 A | 16 A | 50 A | 20 A |
| 850 V | 20 A | 20 A |  |  |
| 800 V | 25 A | 25 A |  | 30 A |
| 650 V | 32 A | 30 A |  | 45 A |
| 500 V |  |  |  |  |
| 400 V |  | 45 A |  |  |

## P-TYPE



## PRODUCTS

Over 10,000,000 AC and DC units in use

Extremely short power shut off time of approx. 3 ms

Switching without flame arc


Suitable for switching low current control signals (due to internal low resistance and self cleaning contacts)

Many accessories available
©0 Customer specific assemblies


| Size | Small | Medium | Big |
| :---: | :---: | :---: | :---: |
| Current Range (Amperes) | 16A, 25A, 40A | $\begin{gathered} \text { 40A, 63A, 100A, } \\ 200 \mathrm{~A} \end{gathered}$ | $\begin{gathered} \text { 250A, 300A, 350A } \\ 500 \mathrm{~A}, 800 \mathrm{~A} \end{gathered}$ |
| Voltage AC 22/23 | 440 Volt, 690 Volt | 440 Volt, 690 Volt | 440 Volt, 690 Volt |
| Voltage DC 21 | 600 Volt, 1000 Volt | 600 Volt, 900 Volt | 600 Volt, 1000 Volt |
| Number of positions | 4 | 4 | 4 |

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1975 In production since 1975

IP 66, 67,68 and 69 K available (Nema 4X)

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Chemical resistant material Noryl GFN2-SE1

AC/DC currents from 16A up to 250A

IEC 947-3 and UL508* certified

Many accessories available


Extreme robust for heavy duty industries like mining, defense and steel work industry

Different (pad lockable) knobs available

Shock and vibration resistant


Many switch diagrams possible due to the modular build up of the switch
©0 Endless possibilities due to own R\&D department

CASES



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Number one switch supplier to inverter manufactures
aMA
huawei ABB Schneider K AC o GA AELTA Ingeteam


CASES （This list is not complete only gives a impression）＿

## CASES <br> $+5$



Used inside the powerplants, built for heavy shock and vibrating environments

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Guaranteed safety during the entire lifetime

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Protocol contacts, guaranteed making / breaking on requested switching angle

(1)Designed for emergency applications

Manual and motor driven switch for remote operations

Long life cycle, low maintenance cost guaranteed


CASES


Selected as 'standard' switch in many large industrial and distribution companies

Installed base of more than 500,000 switches in the most adverse conditions.

Resistant against falling coal, oxidation, steel dust, heat, chemicals and so on.

Value for money: some switches are installed and used for almost 40 years without replacement!!!



| Feature | Benefit | Value |
| :---: | :---: | :---: |
| Self cleaning <br> contact | Longer lifetime | Less investment on <br> long-term base |
| Experience | Proven and reliable <br> technologies | Safety for <br> employees |
| Robust enclosures | One time fit | lower maintenance <br> costs |
| Own R\&D <br> department | Creating every <br> solution needed | One partner for all <br> solutions, less <br> vendors |

## Let's discuss how we can create value for you and your company!

## CASES

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## WWW.SANTONSWITCHGEAR.COM


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