

High performance
Switch disconnectors

## DC

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Gorlan Electric Shanghai was established to offer its group's solutions to the Chinese market in order to attend to this market's needs efficient fashion possible. fficient fashion possible. Office 1505 , Sino Liff Tower
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High performance load-break switches to meet your safety and reliability requirements.
Available in several rating and configurations, with a variety of accessories.

According to:

RoHS


## Relevant characteristics

 for photovoltaic installations> Ui (V) Rated insulation voltage 1500 Vdc . $\quad>\mathrm{Isc}(\mathrm{A})$ Short-circuit current of the $>$ Uoc (V) Open circuit voltage of the photovoltaic system.
> Uef (V) Photovoltaic installation functioning voltage on load. $>$ lef (A) Installation working current under load.
photovoltaic installation.
$>$ In certain places of Pv Systems, inductive component must be considered (cables, inverter, etc.)
> The sizing of the switch must be done considering open circuit voltage as maximum operation voltage.

Functional and ergonomic handle
> Good grip and excellent torque/ resistance
> Padlockable handle in O OFF position $>$ Padlockable handle in O OFF po
(up to three locks $\varnothing 5-8 \mathrm{~mm}$ ) Doorinterlockin on imm
> Door interlock in ON position
> When lock ${ }^{\square}$ in O OFF position, door is $>$ When lock
, Defeteab
> Defeteable feature in ON I position (with the use of a tool for maintenance operations). Handle interlock is restored when closing
> Self-centering shaft for door handle

> It is necessary to comply with: Ui $\geq$ Uoc
We recommend to set Ui between 10 and $15 \%$ over Uoc.
$\mathrm{Ue} \geq$ Uef
le $\geq$ lef
$\mathrm{le} \geq \mathrm{lsc}$

The range


## A 160|200|250|315|400 <br> 1500 Vdc



pated thermal current $\quad$ th $\quad$| 160 | 200 | 250 | 315 |
| :--- | :--- | :--- | :--- |

 $\begin{array}{llll}\text { Rated insulation voltage (DC) } & \mathrm{Ui} & \mathrm{V} 15001500150015001500 \\ \text { Rated dielectric strength } & 50 \mathrm{~Hz}, 1 \text { min. } & \text { V } 50005000500050005000\end{array}$ Rated impulse withstand voltage Uimp kV 12 Rated operational current *(*) le Ue 160200250315400
*) Other voltages and / or utilization categories. Please consult
*2) Without limiting protective device (short--ircuit maintained $50 . .100 \mathrm{~ms}$.) (i) Please consult us for more operations

## Terminals location



${ }_{150}{ }^{\circ}$




Technical information
c © (1)
According to UL98 B

E333311
Rated thermal current

|  |  |  |  | 250 | 320 | 400 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Rated thermal current | th | $-20^{\circ} \mathrm{C}$ up to $50^{\circ} \mathrm{C}$ | A | 250 | 320 |  | | Rated operational current le | le | 1500 Vdc |  | A | 250 | 320 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | $\begin{array}{lllll}\text { Rated short-time withstand current }(0,05 \mathrm{sec}) \mathrm{cw} & \mathrm{KA} & 10 & 10 & 10\end{array}$ Maximum weight $\quad \begin{gathered}\text { Consult according to } \\ \text { code }\end{gathered}$

Wiring capacity
Minimum busbar connection range


## Terminals location

> External handle included shaft *el

>> Auxiliary contacts 1NO+1NC CODE DSLAUO1
2NO+2NC CODE DSLAUO2 $\mathrm{le}=16 \mathrm{~A}$ (resistive loads) $\mathrm{e}=1 \mathrm{~A}$ (inductive losistive loads) at 250 Vac.

## >Shafts

Standard shaft included *(e)

Shaft extensions



Dimensions (mm \& inches)
Door drilling for external handle


Conforms to ULS8B. Minus -20 0 o5 50 O. PV disconnect switch. Location Category B
Suitable for use in PV Systems in accordance with Article 690 of the NEC Suitable for use in PV Systems in accordance with Article 690 of the NEC

$\xrightarrow{5}+\frac{L}{\square Z Z Z Z}$


$\begin{array}{lllllllllll}20 \mathrm{~A} & 4 & 5 / 32 & 32 & 1-1 / 4 & \text { M12 } & 24 & 212\end{array}$

## MAINTENANCE RECOMMENDATIONS:

Electrical installations and their components should be periodically inspected to check they are in good condition. Operability of switches should be checked after an incident, during maintenance or due to ageing.
Tightening torque of electrical connections should be revised as vibrations in the environment and electrical conductivity may oose them affecting to the performance and durability of all components as well.
Not performing preventive maintenance may damage and spoil parts, systems and machines. Moreover it can also cause accidents and injure people
Before working on equipment or components which may be electrically live, the appropriate safety cautions must be taken by operators, end-users or other staff. Right personal protective equipment (e.g. safety clothes, gloves, goggles, helmet, insulating footwear) should be used, and the appropriate tools for the operation. At the same time, caution measures should be taken to prevent damages to third parties such as warning signs, barriers, mechanical locks, etc.
Prior to use any protective aripmen ar tols, they must be checked to be in good condition.
Maintenance or repair works should be performed in areas not electrically live by qualified and authorized staff following the applicable regulations and good practices.

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