## DSX

## SAFETY, STRENGTH AND <br> EASE OF INSTALLATION



ISOLATING SWITCHES \&
TRANSFER SWITCHING EQUIPMENT
UP TO 320 A

Legrand's new isolating switches and transfer switching equipment are used for incoming control in various fields of application: low voltage distribution boards, transformer substations, power plants, wind turbines, data centers, machine control, UPS, etc. The DSX range integrates seamlessly into $\mathrm{XL}^{3}-\mathrm{S}$ or $\mathrm{XL}^{3}$ enclosures (modular range only) to create different configurations depending on the type of installation.

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Modular range:

- Easier installation ..... p. 4
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Plate-mounting range
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DSX, AN ESSENTIAL RANGE OF DEVICES WHICH CAN BE USED TO MAKE SAFE AND ISOLATE NETWORKS AND ELECTRICAL EQUIPMENT TO ENSURE THE SAFETY OF PEOPLE AND PROPERTY AND COMPLIANCE WITH CURRENT STANDARDS

## Rail or plate-mounting, simpler selection

A suitable solution for installations up to 320 A

The new DSX range consists of two types of device: isolating switches and transfer switching equipment, DIN rail-mounting ( $\mathrm{ln} \leq 160 \mathrm{~A}$ ), or plate-mounting ( $\mathrm{In} \leq 320 \mathrm{~A}$ ) available in 3 or 4 -pole versions. Depending on the device type, they break, close or switch the load and safely isolate any low-voltage circuit, especially machine control circuits.


ISOLATING SWITCHES


TRANSFER
SWITCHING EQUIPMENT


| OF USE CATEGORY | VOLTAGE |
| :---: | :---: |
| AC $23 \mathrm{~A} / \mathrm{B}$ | $415 \mathrm{~V} \sim$ |
| AC $21 \mathrm{~A} / \mathrm{B}$ | $690 \mathrm{~V} \sim$ |
| DC $21 \mathrm{~A} / \mathrm{B}$ | $250 \mathrm{~V}=$ |

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## Easier

## installation

Optimise space and wiring operations

Up to 160 A, DSX isolating switches and transfer switching equipment can be mounted on a DIN rail. Their compact dimensions optimise the space inside distribution boards. They have been specially designed to make wiring and use easier.

## ISOLATING SWITCHES



## 1 INTERNAL MECHANISM

With double-breaking poles by self-cleaning snap-action make/break contacts.

## 2 CAGE TERMINALS

for Al or Cu cables on isolating switches and transfer switching equipment.


## 3 MARKED WITH

 ELECTRICAL SYMBOLFor identifying the product function, even without a wiring diagram

## 4 MARKED WITH

 PRODUCT CATALOGUE NUMBERFor ease of identification.

## 5 PADLOCKING DEVICE

In "open" position for maximum safety during maintenance operations For 6 mm diameter padlocks


## fixing claws

On DIN rail (at the back of the device).


## 7 FRONT HANDLE

 DIRECTLY ON THE DEVICEMarked with arrow and cut-out for easy identification of the contact position.

## 8 CONTACT IDENTIFICATION

Makes it easy to find contacts corresponding to the wiring diagram.

## 9 MARKED WITH NOMINAL CURRENT

## 10 TECHNICAL MARKING

Set out on the side of devices (voltage frequency, category of use, etc).


## 11 POSITION MARKING

Corresponding to the contact position

ISOLATING SWITCHES

Green (0)


MANUAL SUPPIY INVERTERS


Red (II)


Red (I)
Red (I)



## Simpler selection and installation

Accessories to improve speed and efficiency

Various accessories allow you to customise the installation to suit your needs: handle for mounting on door, auxiliary contacts, accessories for wiring and additional power poles.

1


## 1 IP30 SEALABLE TERMINAL SHIELD

Available in $1 P$ and $3 P$ version. Compatible with all products in the modular DSX range lisolating switches and transfer switching equipment).


## 2 AUXILIARY SIGNALLING

 CONTACT ( $\mathrm{NO}+\mathrm{NC}$ )Indicates the status of the contacts on the device to which it is attached. Simply clips onto the left or right of the device. Compatible with all products in the modular DSX range. A single device can take up to 4 auxiliary contacts ( 2 on each side).


## 3 FRONT HANDLE,

 DIRECTLY ON THE DEVICE.Can be replaced with a red/yellow "emergency stop" type handle or an IP55 external handle for mounting on door (standard or "emergency stop" version).


## SUPPLY INVERTERS

Manual supply inverters can also be equipped with bridging kits in 3P or 4 P version on upstream or downstream terminals.


## EXTRA POWER POLE

To obtain a 4 P isolating switch, simply equip a 3P version with an extra pole.
The 4th pole can be installed on the left or right-hand side of the isolating switch for perfect adaptation to usual wiring methods.


Transfer switching equipment is available directly in 3P or 4P version.


DSX 3P 63 A
transfer switching equipment


DSX 4P 160 A
transfer switching equipment

# Increased strength and safety up to 320 A 

Visible load breaking<br>Plate-mounting DSX isolating switches and transfer switching equipment respectively break/close and switch the load with visible breaking. The actual position of the contacts is directly visible thanks to the transparent window on the front of devices. For maximum safety and identification of the contact position at a glance, all the devices have retractable status indicators.



## 1 INTERNAL MECHANISM

With double-breaking poles by self-cleaning snap-action make/break contacts.

## 2 TERMINALS FOR CABLE LUGS

For Al or Cu cables.
3 RETRACTABLE STATUS INDICATORS
Make it easy to identify the contact position ("open"/"closed") for each pole on the device (Legrand innovation).


Contacts open
= indicators in retracted position


Contacts closed
= indicators
visible

Also available on plate-mounting transfer switching equipment in the DSX range.


## 4 TRANSPARENT WINDOW

Allows the actual position of the contacts to be viewed inside the device.

## 5 FRONT HANDLE

 DIRECTLY ON THE DEVICE.(to be ordered separately)
Can be used to padlock the device
in "Open" position during
maintenance operations;
Takes up to 3 padlocks, each diameter 8 mm


## 6 CLEAR MARKING

Indicates the product catalogue number, nominal current, electrical symbol,
contact position depending on the handle.

Green (0)/Red (I)


Green (0)/Red (I)/Red (II)


## 7 METAL BASE

With oblong fixing holes, so the device position can be adjusted during mounting.

## 8 TECHNICAL MARKING

Set out on the side of devices (voltage, frequency, category of use, etc).


## Simplicity of use and adaptability

A complete Handef for munting on door, axxiary yontacts, accessories tor Danoply of $\quad$ installation configurations and simplify wiring operations. accessories


## IP30 SEALABLE TERMINAL SHIELD

Available in 3 P and 4 P version. Compatible with all products in the plate-mounting DSX range lisolating switches and transfer switching equipment).


## 2 SPREADERS

Installed on upstream or downstream terminals for easier wiring. Available in 3 P and 4 P version. Compatible with all products in the plate-mounting DSX range

## 3 AUXILIARY SIGNALLING CONTACT 4 (NO+NC)

Indicates the status of the contacts on the device to which it is attached Simply clips onto the right-hand side of the device. Compatible with all products in the plate-mounting DSX range.


Isolating switches: 1 contact/device


Transfer switching equipment: 2 contacts/device

## 4 EARLY MAKE/BREAK AUXILIARY CONTACT 2 (NO+NC).

Breaks before (or closes after) the main contacts of the device to which it is attached.

Placed in a control circuit, this avoids the load being cut off when the isolating switch is actuated. Installed inside devices, by simply clipping into a dedicated compartment. Compatible with all products in the plate-mounting DSX range.


## 5 FRONT HANDLE,

 DIRECTLY ON THE DEVICECan be replaced with a red/yellow "emergency stop" type handle or an IP 55 external handle for mounting on door (standard or "emergency stop" version). Compatible with all products in the plate-mounting DSX range.


## 6 LOCKING DEVICE

A key locks the device in "Open" position during maintenance operations. Compatible with all products in the plate-mounting DSX range.


## ELECTRICALLY-INSULATED

 DIVIDERSIsolate the connection between each pole. Compatible with all products in the platemounting DSX range


TRANSFER SWITCHING EQUIPMENT
Manual supply inverters can also be equipped with:

- 3 P or 4 P bridging kits on the upstream or downstream terminals.

- Electrically-insulated dividers to avoid accidental contact between the terminals corresponding to the two power supply sources.



## t legrand

## DSX switch-disconnectors and transfer switching equipment



Switch-disconnectors and transfer switching equipment equipped with a rotary direct handle. Front operated
Conform to IEC 60947-3 and IEC 60947-6-1

| Ref. |
| :---: |
|  |
|  |
|  |
|  |
|  |
| 424000 |
| 424001 |
| 424002 |
| 424003 |
| 424004 |
| 424005 |

## Switch-disconnectors

Safety switches for on-load circuit breaking by isolation of the contacts
Internal mechanism is independent from the velocity of handle rotation
Double break type load switching with
self-cleaning contacts by rapid make and break move ments
Category of use: AC23 A/B (415 V ~), Padlockable
handle in open position
( $\varnothing 6 \mathrm{~mm}$ padlock)
Cage terminals
Accept copper and aluminium cables
For $3 \mathrm{P}+\mathrm{N}$ version, add 1 additional pole
(Ref. 424204/05/06/19/20/21)
Can be equipped with up to 4 auxiliary contacts
(Ref. 424208), 2 contacts on each side

## Frame 1-63 A

Width: 1 module per pole

| In | Number of modules |
| :---: | :---: |
| 32 A | 3 |
| 40 A | 3 |
| 63 A | 3 |

## Frame 2-160 A

Width: 1.5 module per pole

| 100 A | 4.5 |
| :--- | :--- |
| 125 A | 4.5 |
| 160 A | 4.5 |

## Additional poles (neutral) for switch-

 disconnectorsTo be clipped onto left or right side of a 3-pole switchdisconnectors
Maximum 1 additional pole per switch
For frame 1 switch-disconnectors

| In | Number of |
| :--- | ---: |
| 32 A | 1 |
| 40 A | 1 |
| 63 A | 1 |

## For frame 2 switch-disconnectors

| 100 A | 1.5 |
| :--- | :--- |
| 125 A | 1.5 |
| 160 A | 1.5 |



## Transfer switching equipment

Category of use: AC33 A/B (415 V ~)
Internal mechanism is independent from the velocity
of handle rotation
Padlockable handle in open position
(Ø 6 mm padlock)
Cage terminals
Accept copper and aluminium cables
Can be equipped with up to 4 auxiliary contacts
(ref. 424208), 2 contacts on each side
Frame 1-63 A
Width: 1 module per pole

| In | Position of the handle | Connection | Number of modules |  |
| :---: | :---: | :---: | :---: | :---: |
| 32 A | 1-O-II |  | 6 | 8 |
| 40 A | 1-O-II |  | 6 | 8 |
| 63 A | I-O-II | , | 6 | 8 |

Frame 2-160 A
Width: 1.5 module per pole

| 100 A | I-O- II |  | 9 | 2 |
| :---: | :---: | :---: | :---: | :---: |
| 125 A | 1-0-11 |  | 9 | 12 |
| 160 A | 1-O-11 | $\triangle \mathrm{O}$ | 9 | 12 |

## Auxiliary contacts (NO+NC)

For DSX switch-disconnectors and transfer switching equipment
5 A-230 V~
Can be mounted on both sides of the switches
Maximum 4 auxiliaries per switch
(2 on each side)
Width: 0.5 modules
Simultaneous auxiliary
Indicates the state of the contacts

Connection


DSX switch-disconnectors and transfer
switching equipment

- rail mounting version - accessories



424216

## Rotary handles

For front operation

## Direct handles for switch-disconnectors

424215
Standard (black)
424216
For emergency use (red)
Direct handles for transfer switching equipment
Standard (black)
424218 For emergency use (red)
Vari-depth handles for switch-disconnectors and transfer switching equipment
IP 55 external handles
Comprising: connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism
Padlockable in open position
(up to 3 padlocks $\varnothing 8$ mm)
424209
424210
Standard (black)
For emergency use (red/yellow)

## Sealable terminal shields - IP 30

For DSX switch-disconnectors and transfer switching equipment
Set of 2

## For frame 1

424203
For 1-pole switches
For 3-pole switches

## For frame 2

424214
424213
For 1-pole switches
For 3-pole switches

## Bridging links for transfer switching equipment

## For frame 1

424200
424201
For 3-pole switches. Set of 3
For 4 -pole switches. Set of 4

## For frame 2

424211
424212

DSX switch-disconnectors and transfer switching equipment technical characteristics

| $\square$ Technical characteristics |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Switch-disconnectors |  |  |  |  |  |  |  |  |
|  |  |  | Frame 1-63 A |  |  | Frame 2-160 A |  |  |
| Rated current In (A) |  |  | 32 | 40 | 63 | 100 | 125 | 160 |
| Number of poles |  |  | 3, 4 |  |  | 3, 4 |  |  |
| Rated insulation voltage Ui (V) |  |  | 690 |  |  | 690 |  |  |
| Rated impulse withstand voltage Uimp (kV) |  |  | 8 |  |  | 8 |  |  |
| Dielectric strength 50 Hz 1 min (kV) |  |  | 6 |  |  | 6 |  |  |
| Rated operational voltage (AC) Ue (V) |  |  | 690 |  |  | 690 |  |  |
| Rated operational voltage (DC) Ue (V) |  |  | 250 |  |  | 250 |  |  |
| Category of use: | AC 20 A/B | 415 V | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 21 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 22 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 23 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 20 A/B | 690 V | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 21 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 22 A/B |  | 32 | 40 | 40 | 100 | 125 | 125 |
|  | AC $23 \mathrm{~A} / \mathrm{B}$ |  | 25 | 25 | 25 | 63 | 63 | 63 |
|  | DC 20 A/B | $250 \mathrm{~V}=$ | 32 | 40 | 63 | 100 | 125 | 160 |
|  | DC 21 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | DC $22 \mathrm{~A} / \mathrm{B}$ |  | 32 | 40 | 40 | 100 | 125 | 125 |
|  | DC 23 A/B |  | 25 | 25 | 25 | 63 | 63 | 63 |
| Short circuit making capacity Icm (kA) |  |  | 2,1 |  |  | 4,5 |  |  |
| Maximal withstand peak current (while protection breaks short circuit) (kA) |  |  | 12 |  |  | 14 |  |  |
| Short time withstand current (1 s) Icw (kA) |  |  | 1,5 |  |  | 3,0 |  |  |
| Mechanical endurance (No. of operations) |  |  | 20000 |  |  | 15000 |  |  |
| Electrical endurance (No. of operations) |  |  | 2500 |  |  | 2500 |  |  |
| Rated Ambient temperature $\mathrm{Ta}\left({ }^{\circ} \mathrm{C}\right)$ |  |  | 40/50 |  |  | 40/50 |  |  |
| Temperature Withstand range ( ${ }^{\circ} \mathrm{C}$ ) |  |  | -50/+70 |  |  | -50/+70 |  |  |
| Terminal type |  |  | Cage |  |  | Cage |  |  |
| Maximal copper cable $\mathrm{mm}^{2}$ |  |  | $35 / 50$ |  |  | 70 / 95 |  |  |

Transfer switching equipment

| Rated current In (A) |  |  | Frame 1-63 A |  |  | Frame 2-160 A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 32 | 40 | 63 | 100 | 125 | 160 |
| Number of poles |  |  | 3, 4 |  |  | 3, 4 |  |  |
| Rated insulation voltage Ui (V) |  |  | 690 |  |  | 690 |  |  |
| Rated impulse withstand voltage Uimp (kV) |  |  | 8 |  |  | 8 |  |  |
| Dielectric strength $50 \mathrm{~Hz} 1 \mathrm{~min}(\mathrm{kV})$ |  |  | 6 |  |  | 6 |  |  |
| Rated operational voltage (AC) Ue (V) |  |  | 690 |  |  | 690 |  |  |
| Rated operational voltage (DC) Ue (V) |  |  | 250 |  |  | 250 |  |  |
| Category of use: | AC 20 A/B | 415 V | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 21 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 22 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 23 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 20 A/B | 690 V | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 21 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | AC 22 A/B |  | 32 | 40 | 40 | 100 | 125 | 125 |
|  | AC 23 A/B |  | 25 | 25 | 25 | 63 | 63 | 63 |
|  | DC $20 \mathrm{~A} / \mathrm{B}$ | $250 \mathrm{~V}=$ | 32 | 40 | 63 | 100 | 125 | 160 |
|  | DC 21 A/B |  | 32 | 40 | 63 | 100 | 125 | 160 |
|  | DC 22 A/B |  | 32 | 40 | 40 | 100 | 125 | 125 |
|  | DC 23 A/B |  | 25 | 25 | 25 | 63 | 63 | 63 |
| Short circuit making capacity Icm (kA) |  |  | 2,1 |  |  | 4,5 |  |  |
| Maximal withstand peak current (while protection breaks short circuit) (kA) |  |  | 12 |  |  | 14 |  |  |
| Short time withstand current (1 s) Icw (kA) |  |  | 1,5 |  |  | 3,0 |  |  |
| Mechanical endurance (No. of operations) |  |  | 20000 |  |  | 15000 |  |  |
| Electrical endurance (No. of operations) |  |  | 2500 |  |  | 2500 |  |  |
| Rated Ambient temperature $\mathrm{Ta}\left({ }^{\circ} \mathrm{C}\right)$ |  |  | 40/50 |  |  | 40/50 |  |  |
| Temperature Withstand range ( ${ }^{\circ} \mathrm{C}$ ) |  |  | -50/+70 |  |  | -50/+70 |  |  |
| Terminal type |  |  | Cage |  |  | Cage |  |  |
| Maximal copper cable $\mathrm{mm}^{2}$ |  |  | $35 / 50$ |  |  | 70 /95 |  |  |

## 47 legrand

DSX switch-disconnectors and transfer switching equipment fixing on plate


Switch-disconnectors and transfer switching equipment to be equipped with a rotary direct or vari-depth handle. Front operated Conform to IEC 60947-3 and IEC 60947-6-1

| Ref. |  | Switch-disconnectors |
| :---: | :---: | :---: |
|  |  | Safety switch-disconnectors for on-load circuit breaking by visible isolation and positive actions of the contacts <br> Category of use: AC23 A/B (415 V ) ), Padlockable in open position <br> (up to 3 padlocks $\varnothing 8 \mathrm{~mm}$ ) <br> Integrated pop-up indicators to signal the state of the contacts ("ON" when indicator is visible). Connection with lugs: copper and aluminium cables <br> Can be equipped with terminal shields, insulated shields (phase barriers) and key lock in open position (ref. 424234) <br> Accept up to 2 auxiliary contacts <br> (1 simultaneous auxiliary contact and 1 early make/ break auxiliary contact) <br> Frame 1-160 A |
|  |  |  |
| 424011 | 424014 | 125 A |
| 424012 | 424015 | 160 A |
|  |  | Frame 2-320 A |
| 424020 | 424023 | 200 A |
| 424021 | 424024 | 250 A |
| 424022 | 424025 | 320 A |

## Transfer switching equipment

Safety transfer switching equipment for on-load circuit breaking by visible isolation and positive actions of the contacts
Category of use: AC23 A/B (415 V ~)
Padlockable in open position
(up to 3 padlocks $\varnothing 8 \mathrm{~mm}$ )
Integrated pop-up indicators to signal the state of the contacts. Connection with lugs: copper and aluminium cables
Can be equipped with terminal shields, insulated shields (phase barriers), inter source barriers, bridging links and key lock in open position (ref. 424234)
Accept up to 4 auxiliary contacts
( 2 simultaneous auxiliary contacts and
2 early Make/Break auxiliary contacts)
Frame 1-160 A
ln
100 A
125 A
160 A

Position of the handle
I-O-II
I-O-II
I-O-II


Frame 2-320 A
200 A
I-O-II
I-O-II
I-O-II


| $3 P$ | $4 P$ |
| :---: | :---: |
| 424110 | 424113 |
| 424111 | 424114 |
| 424112 | 424115 |
| 424120 | 424123 |
| 424121 | 424124 |
| 424122 | 424125 |

## Auxiliary contacts (NO+NC)

For DSX switch-disconnectors and transfer switching equipment
5 A - 230 VA
Maximum number of auxiliaries:

- Switch-disconnectors: 1 simultaneous auxiliary contact + 1 early make/break auxiliary contact
- Transfer switching equipment: 2 simultaneous auxiliary contacts +2 early make/break auxiliary contacts

Simultaneous auxiliary 4(NO+NC) Indicates the state of the contacts


Dimensions (W×HxD) $12 \times 69 \times 60.5 \mathrm{~mm}$
Early Make/Break auxiliary 1 early make (NO+NC) 1 early break (NO+NC) Indicates the position of the

DSX switch-disconnectors and transfer switching equipment fixing on plate version - accessories


424234


424253

| Ref. | Locking accessory |
| :--- | :--- |
| 424234 | Direct key lock <br> Comprising: keylock assembly and Ronis type key <br> (random) |
|  | Sealable terminal shields - IP40 <br> For DSX switch-disconnectors and transfer switching <br> equipment |
| 424246 | For frame 1 <br> For 3-pole switches <br> For 4-pole switches |
| 424247 | For frame 2 |
| 424235 | For 3-pole switches <br> For 4-pole switches |
| 424236 | Insulated shields (phase barriers) |
|  | For DSX switch-disconnectors and transfer switching <br> equipment <br> For isolating the connections between each pole <br> Flexible thermoplastic - PVC |
| 424250 | For frame 1 <br> For 3-pole switches. Set of 4 <br> 424251 <br> For 4-pole switches. Set of 6 |
| 424242 | For frame 2 <br> For 3-pole switches. Set of 4 <br> For 4-pole switches. Set of 6 |
| 424243 | Inter source barriers for transfer switching <br> equipment |

## For frame 1

For frame 2

## Spreaders

For DSX switch-disconnectors and transfer switching equipment
Incoming/outgoing spreaders supplied with U clamps For easier connection of copper and aluminium cables

## For frame 1

For 3-pole switches. Set of 3
For 4-pole switches. Set of 4

## For frame 2

424253
424254
424237
424238
-pole switches. Set of 3
For 4-pole switches. Set of 4
Bridging links for transfer swithing equipment

## For frame 1

switches. Set of 3
For 4-pole switches. Set of 4

## For frame 2

424240
For 3-pole switches. Set of 3
424241

## DSX switch-disconnectors and transfer switching equipment technical characteristics

## Technical characteristics

Switch-disconnectors

|  |  |  | Frame 1-160 A |  |  | Frame 2-320 A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rated current $\ln (\mathrm{A})$ |  |  | 100 | 125 | 160 | 200 | 250 | 320 |
| Number of poles |  |  | 3, 4 |  |  | 3, 4 |  |  |
| Rated insulation voltage Ui (V) |  |  | 1000 |  |  | 1000 |  |  |
| Rated impulse withstand voltage Uimp (kV) |  |  | 8 |  |  | 12 |  |  |
| Dielectric strength $50 \mathrm{~Hz} 1 \mathrm{~min}(\mathrm{kV}$ ) |  |  | 8 |  |  | 10 |  |  |
| Rated operational voltage (AC) Ue (V) |  |  | 690 |  |  | 690 |  |  |
| Rated operational voltage (DC) Ue (V) |  |  | 250 |  |  | 250 |  |  |
| Category of use: | AC 20 A/B | 415 V~ | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC 21 A/B |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC $22 \mathrm{~A} / \mathrm{B}$ |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC $23 \mathrm{~A} / \mathrm{B}$ |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC $20 \mathrm{~A} / \mathrm{B}$ | 690 V | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC 21 A/B |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC $22 \mathrm{~A} / \mathrm{B}$ |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC 23 A/B |  | 100 | 125 | 125 | 200 | 250 | 250 |
|  | DC $20 \mathrm{~A} / \mathrm{B}$ | $250 \mathrm{~V}=$ | 100 | 125 | 160 | 200 | 250 | 320 |
|  | DC 21 A/B |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | DC 22 A/B |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | DC 23 A/B |  | 100 | 125 | 125 | 200 | 250 | 250 |
| Short circuit making capacity Icm (kA) |  |  | 20 |  |  | 35 |  |  |
| Maximal withstand peak current (while protection breaks short circuit) (kA) |  |  | 27 |  |  | 40 |  |  |
| Short time withstand current (1 s) Icw (kA) |  |  | 8 |  |  | 15 |  |  |
| Mechanical endurance (No. of operations) |  |  | 15000 |  |  | 15000 |  |  |
| Electrical endurance (No. of operations) |  |  | 2500 |  |  | 2500 |  |  |
| Rated Ambient temperature $\mathrm{Ta}\left({ }^{\circ} \mathrm{C}\right)$ |  |  | 40/50 |  |  | 40/50 |  |  |
| Temperature Withstand range ( ${ }^{\circ} \mathrm{C}$ ) |  |  | -50/+70 |  |  | -50/+70 |  |  |
| Terminal type |  |  | Extended |  |  | Extended |  |  |
| Maximum copper lug /bar connection (mm) |  |  | 25 | 50 | 70 | 95 | 120 | 185 |
| Maximum aluminium lug /bar connection (mm) |  |  | 50 | 70 | 120 | 150 | 185 | $\begin{gathered} 240 \\ 2 \times 120 \end{gathered}$ |

Transfer witching equipment

|  |  |  | Frame 1-160 A |  |  | Frame 2-320 A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rated current In (A) |  |  | 100 | 125 | 160 | 200 | 250 | 320 |
| Number of poles |  |  | 3, 4 |  |  | 3, 4 |  |  |
| Rated insulation voltage Ui (V) |  |  | 1000 |  |  | 1000 |  |  |
| Rated impulse withstand voltage Uimp (kV) |  |  | 8 |  |  | 12 |  |  |
| Dielectric strength $50 \mathrm{~Hz} 1 \mathrm{~min}(\mathrm{kV})$ |  |  | 8 |  |  | 10 |  |  |
| Rated operational voltage (AC) Ue (V) |  |  | 690 |  |  | 690 |  |  |
| Rated operational voltage (DC) Ue (V) |  |  | 250 |  |  | 250 |  |  |
| Category of use: | AC 20 A/B | 415 V | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC 21 A/B |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC $22 \mathrm{~A} / \mathrm{B}$ |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC $23 \mathrm{~A} / \mathrm{B}$ |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC 20 A/B | 690 V | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC 21 A/B |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC $22 \mathrm{~A} / \mathrm{B}$ |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | AC $23 \mathrm{~A} / \mathrm{B}$ |  | 100 | 125 | 125 | 200 | 250 | 250 |
|  | DC $20 \mathrm{~A} / \mathrm{B}$ | $250 \mathrm{~V}=$ | 100 | 125 | 160 | 200 | 250 | 320 |
|  | DC 21 A/B |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | DC $22 \mathrm{~A} / \mathrm{B}$ |  | 100 | 125 | 160 | 200 | 250 | 320 |
|  | DC 23 A/B |  | 100 | 125 | 125 | 200 | 250 | 250 |
| Short circuit making capacity Icm (kA) |  |  | 20 |  |  | 35 |  |  |
| Maximal withstand peak current (while protection breaks short circuit) (kA) |  |  | 27 |  |  | 40 |  |  |
| Short time withstand current (1 s) Icw (kA) |  |  | 8 |  |  | 15 |  |  |
| Mechanical endurance (No. of operations) |  |  | 15000 |  |  | 15000 |  |  |
| Electrical endurance (No. of operations) |  |  | 2500 |  |  | 2500 |  |  |
| Rated Ambient temperature $\mathrm{Ta}\left({ }^{\circ} \mathrm{C}\right)$ |  |  | 40/50 |  |  | 40/50 |  |  |
| Temperature Withstand range ( ${ }^{\circ} \mathrm{C}$ ) |  |  | -50/+70 |  |  | -50/+70 |  |  |
| Terminal type |  |  | Extended |  |  | Extended |  |  |
| Maximum copper lug /bar connection (mm) |  |  | 25 | 50 | 70 | 95 | 120 | 185 |
| Maximum aluminium lug /bar connection (mm) |  |  | 50 | 70 | 120 | 150 | 185 | $\begin{gathered} 240 \\ 2 \times 120 \end{gathered}$ |

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DSX switch-disconnectors and transfer switching equipment ᄂ rail mounting

## Dimensions (mm)

Switch-disconnectors

Frame 1, 3-pole ref. 424000/01/02


Frame 2, 3-pole ref. 424003/04/05


## Transfer switching equipment

Frame 1, 3-pole, ref. 424100/01/02


Frame 2, 3-pole, ref. 424103/04/05


Frame 1, 3P+N with ref. 424204/05/06


Frame 2, 3P+N with ref. 424219/20/21


Frame 1, 4-pole, ref. 424106/07/08


Frame 2, 4-pole, ref. 424109/46/47


DSX switch-disconnectors and transfer switching equipment fixing on plate

Dimensions (mm)

## Switch-disconnectors

Frame 1, 3-pole ref. 424010/11/12


Frame 1, 4P ref. 424013/14/15


Frame 2, 3-pole ref. 424020/21/22
Frame 2, 4P ref. 424023/24/25


## Transfer switching equipment

Frame 1, 3-pole, ref. 424110/11/12


Frame 1, 4-pole, ref. 424113/14/15

Frame 2, 3-pole, ref. 424120/21/22



Frame 2, 4-pole, ref. 424123/24/25


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## Legrand Group Belgium nv

Hector Henneaulaan 366
1930 Zaventem
Tel.: +32 (0)2 7191711
E-mail: info.beluxalegrand.com

