# Automatic transfer switch DPX

**Maintaining continuity of supply becomes crucial especially at places where even a small delay in supply could result huge losses. The DPX range of MCCBs can be efficiently used as an Automatic Transfer Switch at places that require instant power switching. When connected with the microprocessor control box (line changeover unit) it gives you the flexibility to manage that automatic changeover between two supply lines effectively with remote controls.**

## AUTOMATIC

**When the changeover is made automatically using motorised MCCB & Microprocessor Control Box.**

**When an operator organises the changeover from a remote location using motorised MCCBs and push button.**

## NON-AUTOMATIC

| | | |
|---|---|---|
| **Manual** | **-** | **When an operator manually performs the changeover** |

# DPX™
**automatic transfer switch**

6253 85

| Pack | Cat. nos. | Ready-to-install ATS with FP MCCBs |
|---|---|---|
| 1 | 6253 81 | 250A, T/M, 36kA |
| 1 | 6253 82 | 250A, T/M, 70kA |
| 1 | 6253 83 | 250A, Microprocessor 'S1', 70kA |
| 1 | 6253 84 | 630A, T/M, 36kA |
| 1 | 6253 85 | 630A, T/M, 70kA |
| 1 | 6253 87 | 630A, Microprocessor 'S1', 36kA |
| 1 | 6253 88 | 630A, Microprocessor 'S1', 70kA |
| 1 | 6253 89 | 630A, Microprocessor 'S2', 36kA |
| 1 | 6253 90 | 630A, Microprocessor 'S2', 70kA |
| 1 | 6253 91 | 630A, Microprocessor 'Sg', 36kA |
| 1 | 6253 92 | 630A, Microprocessor 'Sg', 70kA |

DPX™
automatic transfer switch

## ■ Technical data

**Handling continuity problems efficiently**
Maintaining continuity of supply becomes crucial especially at places where even a small delay in supply could result in huge losses. The DPX range of MCCBs can be efficiently used as an Automatic Transfer Switch at places that require instant power switching. When connected with the microprocessor control box (line changeover unit) it gives you the flexibility to manage the automatic changeover between two supply lines effectively with remote controls.

## ■ Line changeover systems

**Manual line changeover**
The standard installation may be carried out by using manually operated DPX circuit breakers in fixed version, combined with mechanical interlocks. The mechanical interlock between DPX circuit breakers consists of a support plate on which two circuit breakers are arranged side-by-side. For particular versions (plug-in or draw-out version between two or more circuit breakers), special interlocks with factory pre-setting are available against order.

**Motorised controlled line changeover**
The electrically controlled line changeover may be carried out by using interlocked DPX circuit breakers equipped with remote controls.

**Automatic line changeover**
Automatic line changeover is the most advanced and flexible solution. This system is carried out by combining the components used for the electrically controlled line changeover with the microprocessor control box. This device allows to manage the automatic changeover between two supply sources with simple programming while safety requirements are never compromised.

# DPX™
**automatic transfer switch (continued)**

## ■ Microprocessor control box

**General characteristics**

Microprocessor Control Box allows to manage the automatic changeover between two supply lines with maximum flexibility.
The microprocessor device with microprocessor is very compact
(144 x 144 mm).

Yet, it is able to perform a large number of functions such as :
- Quick acquisition of voltage levels
- Effective value of line voltage check
- Selection of operating mode (auto/man/test/off)
- Selection of voltage thresholds
- Selection of changeover time
- Display of selected parameters (voltage and time)
- Alarm display
- Starting signal to DG, can be given, in case of primary source failure
- Manual changeover line 1/ line 2
- Lockout of simultaneous switching over between lines
- Diagnostic test

## ■ Technical characteristics

- Setting of voltage thresholds on main and secondary line to check between 0.7 and 1Ue (280 - 400 V AC)
- Two models, depending on the supply voltages -230 V AC, 24 V DC
- Changeover time from main line to secondary line 0.5 to 30 s
- Main line resetting time 4 s
- 3-digit data display
- LED - signalling the operating state
- Outgoing relay changeover contacts rating (line circuit breakers control) 16 A 230 V in AC
- Alarm contact rating - 5 A 230 V in AC
- External connections with flexible cable max. 2.5 $mm^2$
- Operating temperature : 0 to $60^0$ C
- Self-extinguishing polycarbonate casing with sealable transparent shield
- Front degree of protection IP 41 without shield, IP 54 with shield
- Flush-mounting version (144 x 144 mm)

**Standard manual changeover switches**

**General characteristics**

The manual changeover switches consist of separate parts that have to be assembled by the user or that may be factory assembled.

The changeover set for DPX circuit breakers consists of support plates equipped with a rocking mechanical interlock on which the circuit breakers in their different versions are fixed.

**Standard mechanical interlocks**

All fixed version DPX circuit breakers with front or rear terminals, except DPX 125 circuit breakers, may be equipped with standard mechanical interlock. They may be equipped with remote controls or with rotary handles.

**Selection**

| Cat. nos. | Description |
|---|---|
| 0261 93 | Microprocessor Control Box - Standard |
| 0261 94 | Microprocessor Control Box - Advanced |
| 0264 01 | Mechanical interlock for two DPX 160 circuit breakers |
| 0264 02 | Mechanical interlock for two DPX 250 ER circuit breakers |
| 0264 08 | Mechanical interlock for two DPX 250 circuit breakers |
| 0264 09 | Mechanical interlock for two DPX 630 circuit breakers |
| 0264 10 | Mechanical interlock for two DPX 1250 or DPX 1600 circuit breakers (factory assembled only) |

## ■ Ready to Install ATS

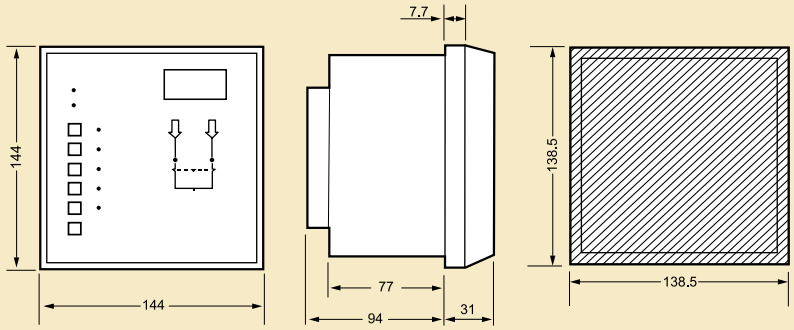
| | Cat. nos. | Type | Breaking cap | Primary MCCB | Secondary MCCB |
|---|---|---|---|---|---|
| DPX 250 ATS | 6253 81 | Thermal - magnetic 250 Amps | 36kA | 0253 49 | 0253 49 |
| | 6253 82 | Thermal - magnetic 250 Amps | 70kA | 0253 73 | 0253 73 |
| | 6253 83 | Micropro-cessor 250 Amps | 70kA | 0254 23 | 0254 23 |

| | Cat. nos. | Type | Breaking cap | Primary MCCB | Secondary MCCB |
|---|---|---|---|---|---|
| DPX 630 ATS | 6253 84 | Thermal - magnetic 630 Amps | 36kA | 0255 40 | 0255 40 |
| | 6253 85 | Thermal - magnetic 630 Amps | 70kA | 0255 60 | 0255 60 |
| | 6253 87 | Micropro-cessor S1 630 Amps | 36kA | 0256 07 | 0256 07 |
| | 6253 88 | Micropro-cessor S1 630 Amps | 70kA | 0256 15 | 0256 15 |
| | 6253 89 | Micropro-cessor S2 630 Amps | 36kA | 0256 32 | 0256 32 |
| | 6253 90 | Micropro-cessor S2 630 Amps | 70kA | 0256 40 | 0256 40 |
| | 6253 91 | Micropro-cessor Sg 630 Amps | 36kA | 0256 57 | 0256 57 |
| | 6253 92 | Micropro-cessor Sg 630 Amps | 70kA | 0256 65 | 0256 65 |

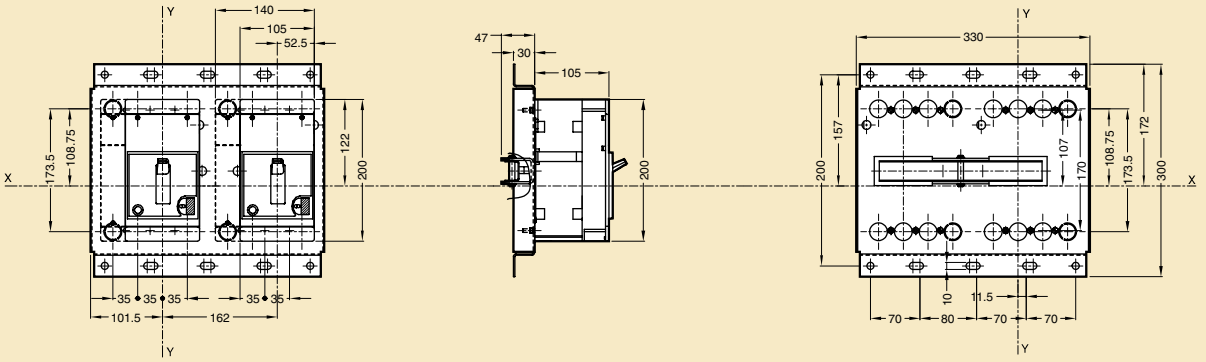
Note : Arrangement to supply the recommended voltage to the microprocessor control box should be made in the panel.

## ■ Dimensions

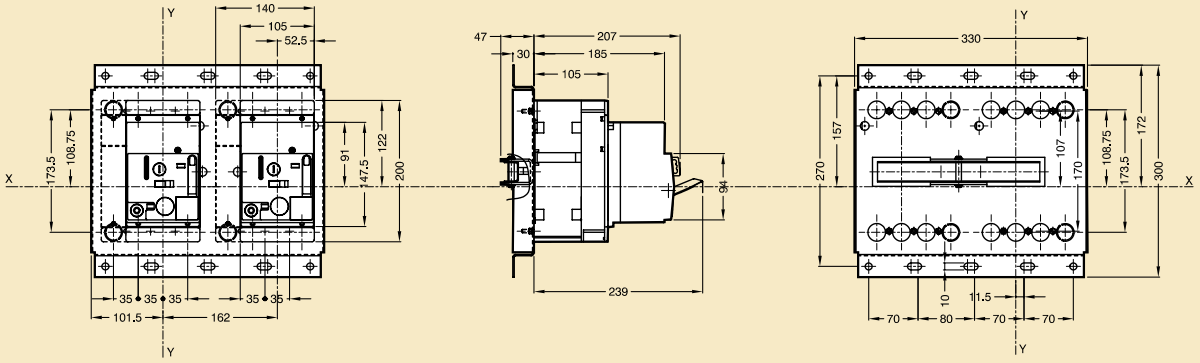
### Microprocessor control box



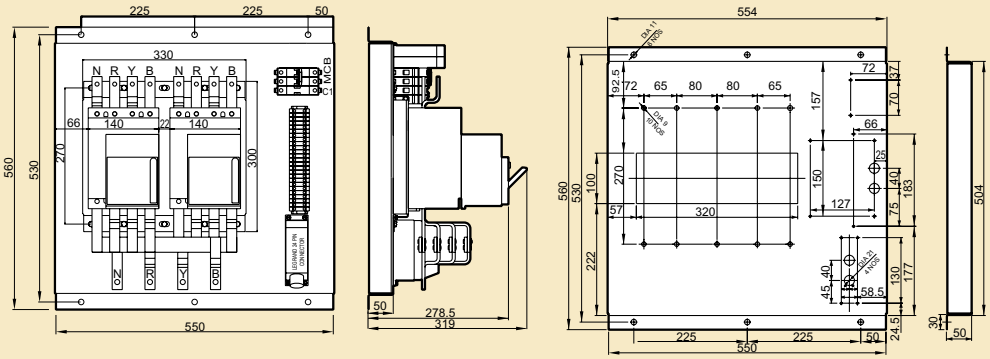

### 2 DPX 250 circuit breakers




### 2 DPX 250 circuit breakers with remote control



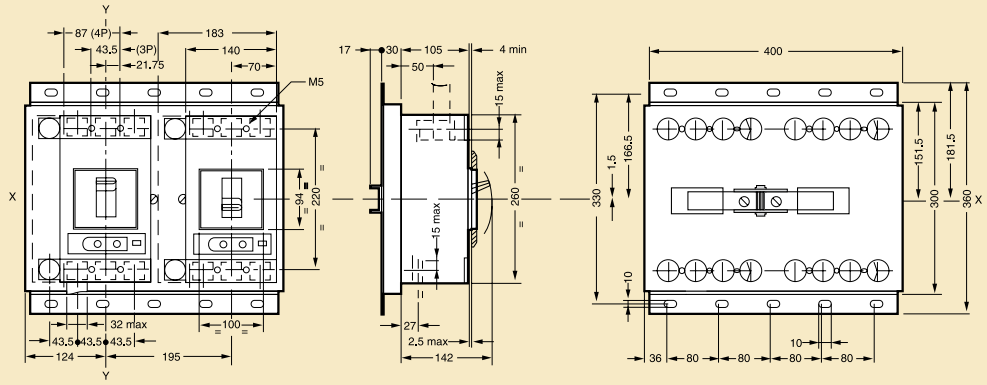

### DPX 250 ready to install ATS



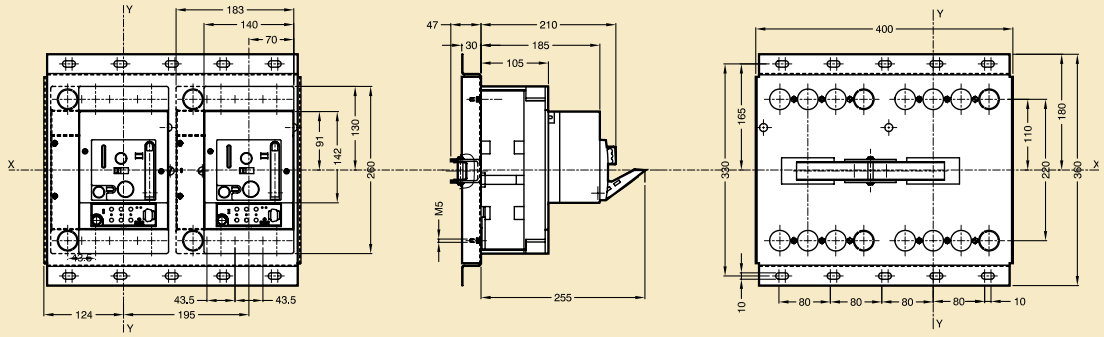

1 inch = 25.4 mm
Note : For all details on installation, please refer to the detailed instruction catalogue.

# DPX™
## automatic transfer switch (continued)

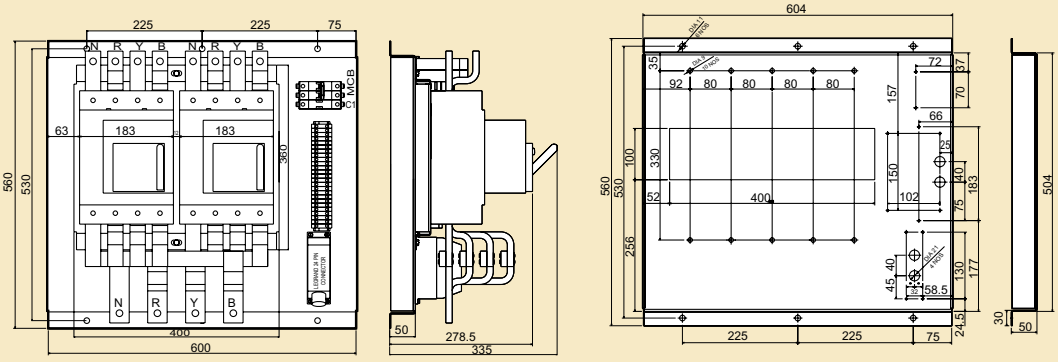
### 2 DPX 630 circuit breakers



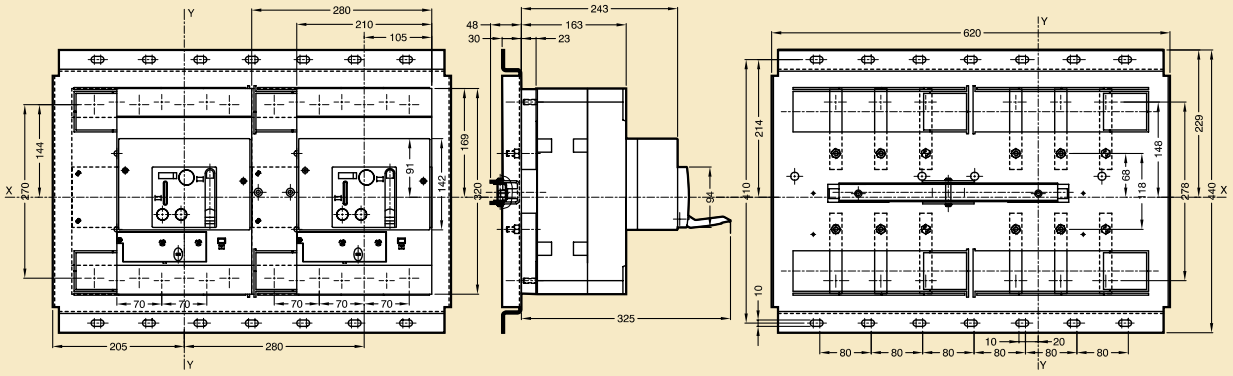

### 2 DPX 630 circuit breakers with remote control




### DPX 630 Ready to Install ATS




### 2 DPX 1250 or 2 DPX 1600 circuit breakers with remote control (factory assembled)




1 inch = 25.4 mm
Note : For all details on installation, please refer to the detailed instruction catalogue.