They remotely trip or indicate circuit breakers or supplementary protectors.

## Compliance with electrical auxiliaries standards

- For UL 489 circuit breaker File \#217688.
- For CSA C22.2 No. 5-02 circuit breakers File \#179014.
- For UL 1077 Supplementary Protectors File \#E90509.
- For CSA C22.2 No. 235-M04 Supplementary Protectors File \#179014.
- For IEC 60947-2 and IEC 60947-5-1 circuit-breakers.
- CE Marked.


## Possible electrical auxiliary combinations

Auxiliaries are mounted to the left of the circuit breaker and/or the supplementary protectors for a total width of $2.13 \mathrm{in}(54 \mathrm{~mm})$ max. :
■ they are fixed using clips (no tools)

- a maximum of 3 indication auxiliaries (OF), (SD) on the same device

■ a maximum of 2 tripping auxiliaries ( $\mathrm{MX}+\mathrm{OF}$ ) or ( MN ) on the same device.



SD Alarm Switch


OF auxiliary Switch


MX + OF Shunt
trip and
auxiliary switch


MN
Undervoltage
release


C60
Supplementary protectors
or C60 circuit breaker

## Connection for copper cables UL 486A file \#E216919

■ Terminal pads for:

- two \#16 AWG (1.5 mm²) cables, or one \#14 AWG ( $2.5 \mathrm{~mm}^{2}$ ) cable
- torque $9 \mathrm{lb} . i n$

| Type | Control voltage |  | Width in modules 0.354 in . ( 9 mm ) | Cat. no. UL/CSA |
| :---: | :---: | :---: | :---: | :---: |
|  | V ~ | V =-. |  |  |
| OF auxiliary switch |  |  |  |  |
|  |  |  | 1 | 26925 |
| SD alarm switch |  |  |  |  |
|  |  |  | 1 | 26928 |
| MX + OF shunt trip |  |  |  |  |
|  | 24 | 12 to 24 | 2 | 27118 |
|  | 48 | 48 | 2 | 27110 |
|  | 110 to 277 | 110 to 130 | 2 | 27109 |
| MN undervoltage release |  |  |  |  |
| Instantaneous | 24 | 24 | 2 | 27108 |
|  | 48 | 48 | 2 | 27106 |
|  | 120 | - | 2 | 27107 |
|  | 220 to 240 | - | 2 | 27105 |

## Remote tripping

Remote tripping is possible by means of a shunt trip (MX+OF) or undervoltage release (MN). A tripped device is indicated by a red indicator flag on the front panel.


## MX + OF shunt trip

■ When energized, trips the associated device:
$\square$ equipped with an $\mathrm{O}+\mathrm{F}$ switch that indicates the "open" or "closed" position of the device
$\square$ realize a self-interrupting allowing the control circuit to remain on.


## MN Undervoltage Release



■ When the voltage drops to $70-35 \%$ of the supply voltage, the associated device trips and is prevented from reclosing until the supply voltage is restored: $\square$ uses emergency stop via push button $\square$ uses safety feature on circuit supplying several machines preventing uncontrolled restarting of the motors.


Remote Indication
Operation test button on the front panel of the auxiliary (OF) and alarm switches (SD) allows simulation of the OF and SD functions without operating the device.

## OF auxiliary switch

■ Indicates the "open" or "closed" position of the device.
Wiring diagrams


SD Alarm Switch
■ Indicates the "tripped-on-fault" position of the device with a red indicator flag on the front panel.


OF and SD position contact depending on status of combinated circuit breaker:

| C60 position | ON |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: |
|  | OFF |  |  |  |  |  |
|  | Trip |  |  |  |  |  |
|  | $11 / 14$ | ON | OFF | OFF |  |  |
|  | $11 / 12$ | OFF | ON | ON |  |  |

## OF, SD, MX + OF, MN C60

##  <br> IEC

MN, MX + OF releases technical data


OF, SD auxiliary contacts technical data
■ Degree of protection: IP20.
■ Rating of auxiliary contact short-circuit protection device:

- circuit-breaker: C60-2P-C curve-6A- limitation class 3
- fuse: $6 \mathrm{~A}, 500 \mathrm{~V}$, type $\mathrm{Gg}, 10.3 \times 38 \mathrm{~mm}$.

Contact rated operational current le (A) to IEC 60947-5

| Auxiliary contacts |  | OF, SD |  |
| :---: | :---: | :---: | :---: |
|  |  |  | 26925 / 26928 |
| Rated operational | $\sim$ | 277 V | 3 |
| voltage Ue (V) | Cat. AC12 | 220 to 240 V | 6 |
|  | --- | 12 to 24 V | 6 |
|  | Cat. DC12 | 48 V | 2 |
|  |  | 60 V | 1.5 |
|  |  | 130 V | 1 |

Common technical data of auxiliary contacts and releases

| Common technical data |  |
| :--- | :--- |
| Operating temperature when live $\left({ }^{\circ} \mathrm{C}\right)$ | $-25^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ |
| Storage temperature | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |

## Dimensions



MN, MX+OF


OF, SD

