

**Cod. XNF0164BL6**

### Standard and Approvals

- Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- Suitable as Manual Motor Controller



### Technical characteristics: Body

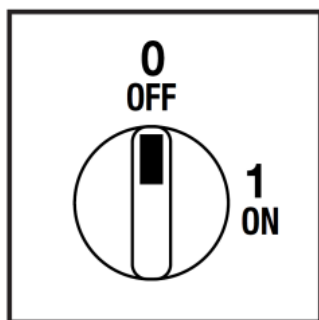
- Disconnect switch 4P with fuse holders
- Fuses are not included
- IP20 protection degree
- Rating operational current: 16A
- Rating thermal current: 16A
- Rating insulation voltage: 690V
- Base mounting
- Fixing:
  - with screw
  - DIN rail
- Switching angle: 90°
- Positive opening double break contacts, made of silver and alloy.



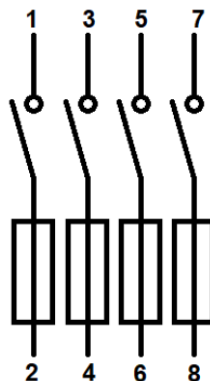
### Technical characteristics: Plate and knob

- Yellow plate 67x67mm and red padlockable knob (max. 3 padlocks)
- Protection degree IP66
- Fixing:
  - 2 screw at 28mm vertical
  - 2 screw at 32mm horizontal

### Plate and position



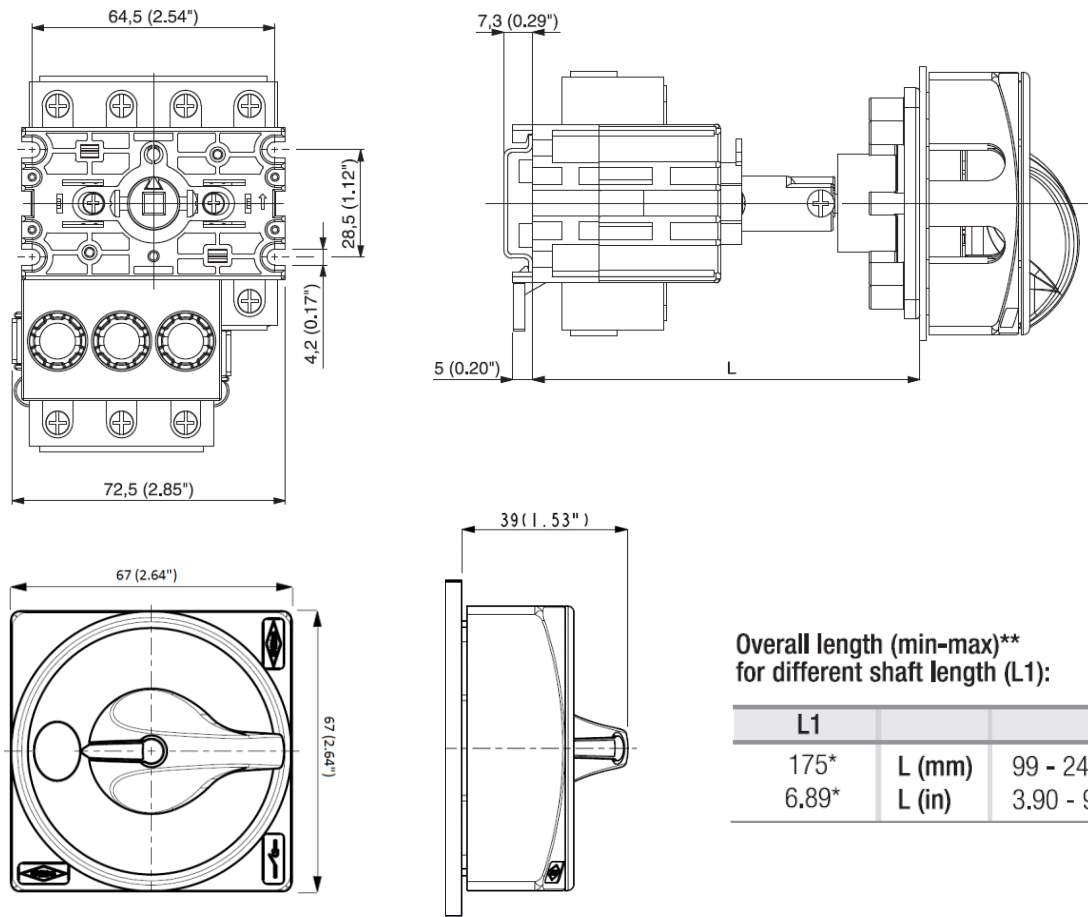
### Electrical scheme



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### Dimensions

measures in mm (in)

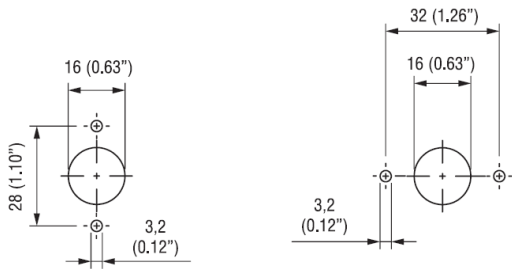


Overall length (min-max)\*\*  
for different shaft length (L1):

| L1    |        |             |
|-------|--------|-------------|
| 175*  | L (mm) | 99 - 243    |
| 6.89* | L (in) | 3.90 - 9.57 |

### Drilling templates

measures in mm (in)



- Escutcheon plate mounting options:
- 2 holes with vertical distance 28mm (1.10")
  - 2 holes with horizontal distance 32mm (1.26")
  - 4 holes with distance 48 mm (1.89")

- Switch mounting options:
- 4 holes with distance 58x18mm (2.28x0.71")

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| Technical data IEC 947-3 EN 60947-3   |         |                 |   | XNF016              |
|---|---------|-----------------|---|---------------------|
| Rated insulation voltage  | Ui      | V               |   | 690                 |
| Rated operating voltage   | Ue      | V               |   | 690                 |
| Rated impulse withstand voltage   | Uimp    | kV              |   | 6                   |
| Rated thermal current for open switch   | Ith     | A               |   | 16                  |
| Rated thermal current for enclosed switch   | Ithe    | A               |   | 16                  |
| Rated operation frequency   |         | Hz              |   | 50                  |
| Power dissipation for each pole   |         | W               |   | 1,8*                |
| Rated operating current   |         |                 |   |                     |
| AC-21A Switching resistive loads, including moderate overloads                            | 690V    | Ie              | A | 16                  |
| AC-22A Switching of mixed resistive and inductive loads, including moderate overloads     | 690V    | Ie              | A | 16                  |
| Rated operating power   |         |                 |   |                     |
| AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole          | 230V    | Kw (A)          |   | 7,5 (24)            |
|   | 400V    | Kw (A)          |   | 13 (24)             |
|   | 500V    | Kw (A)          |   | 13 (16)             |
|   | 690V    | Kw (A)          |   | 15 (16)             |
| AC-3 Squirrel cage motors: starting, switching off motors during running 3 phase - 3 pole | 230V    | Kw (A)          |   | 16 (19)             |
|   | 400V    | Kw (A)          |   | 10 (18)             |
|   | 500V    | Kw (A)          |   | 10 (14)             |
|   | 690V    | Kw (A)          |   | 12 (13)             |
| Rated breaking capability in AC-23A (cos φ=0,45)  | 230V    | A               |   | 192                 |
|   | 400V    | A               |   | 240                 |
| Short circuit protection  |         |                 |   |                     |
| Rated short time withstand current  | Icw     | A               |   | 400                 |
| Rated conditional short-circuit current   |         | kA              |   | 10                  |
| With fuses class gG   | 500V    | A               |   | 16                  |
| Mechanical characteristics  |         |                 |   |                     |
| Mechanical life (120 cycles/hour)   | Mil.Man |                 |   | 2                   |
| Connecting capability with flexible wires   | Min-Max | mm <sup>2</sup> |   | 1,5-10              |
| Connecting capability with solid wires  | Min-Max | mm <sup>2</sup> |   | 1,5-16              |
| Terminal screw  |         |                 |   | M4                  |
| Screw tightening torque   |         | Nm              |   | 1,4                 |
| Protection degree IEC 529 EN 60529  |         |                 |   |                     |
| Terminals   |         |                 |   | IP20                |
| Plate and knob  |         |                 |   | IP66                |
| Ambient conditions  |         |                 |   |                     |
| Operating ambient temperature   |         | °C              |   | -25 ÷ +55           |
| Storage ambient temprature  |         | °C              |   | -30 ÷ +70           |
| Withstand to constant humid according to IEC 60068  |         |                 |   | sec. IEC 60068-2-78 |
| Withstand to cyclic humid according to IEC 60068  |         |                 |   | sec. IEC 60068-2-30 |
| Auxiliary contacts  |         |                 |   | XC16AN XC16CN       |
| Rated insulation voltage  | Ui      | V               |   | 690                 |
| Rated thermal current for open switch   | Ith     | A               |   | 20                  |
| AC-21A Switching resistive loads, including moderate overloads                            | 690V    | A               |   | 6                   |
| AC-15 Control of a.c electromagnetic loads  | 230V    | A               |   | 20                  |

\*Power dissipated from each fuse