## ENERGY AND AUTOMATION

**KBF2A11** LIMIT SWITCH, K SERIES, ADJUSTABLE ROLLER LEVER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 1NO+1NC SLOW ACTION MAKE BEFORE BREAK. METAL ROLLER



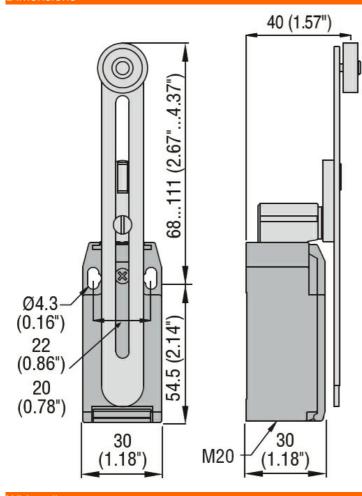
| Product designation                           |                       |         |              | Adjustable rolle           |
|---|-----------------------|---------|--------------|----------------------------|
| Product type designation                      |                       |         | lever<br>KBF |                            |
| General characteristic                        |                       |         |              |                            |
| Material                                      |                       |         |              |                            |
|   |                       | Housing |              | Polymer                    |
|   |                       | -       |              | thermoplastic              |
|   |                       | Roller  |              | Metal                      |
| Contact characteristic                        | S                     |         |              |                            |
| Type of contact                               |                       |         |              | 1NO+1NC Slo<br>action make |
| Type of contact                               |                       |         |              | before break               |
| Thermal current Ith                           |                       |         | A            | 10                         |
| IEC/EN 60947-5-1 designation                  |                       |         | ,,           | A600 Q600                  |
| Rated insulation voltage Ui                   |                       |         | V            | 690                        |
| Rated impulse withsta                         | -                     |         | kV           | 6                          |
| Insulation class                              |                       |         |              | 11                         |
| Short-circuit protection                      | n with fuse           |         | Class/A      | 10 gG/SC<br>QUICK FUSE     |
| Switching speed                               |                       |         |              |                            |
| 5 1   |                       | min     | m/s          | 0.5                        |
|   |                       | max     | m/s          | 1.5                        |
| IEC Conventional free air thermal current Ith |                       |         | А            | 10                         |
| Resistance per pole (average value)           |                       |         | mΩ           | <10                        |
| Mechanical features                           |                       |         |              |                            |
| Operating head fixing                         |                       |         |              | Locking bayon<br>insert    |
| Operating torque                              |                       |         |              |                            |
|   |                       |         | Ncm          | 3                          |
|   |                       |         | ozin         | 4.25                       |
| Tightening torque (Ma                         |                       |         |              |                            |
|   | Switch fixing         |         |              |                            |
|   |                       |         | Nm           | 2.5                        |
|   |                       |         | lbin         | 22.1                       |
|   | Contact terminals     |         | N            | 0.9                        |
|   |                       |         | Nm<br>Ibin   | 0.8<br>7                   |
|   | Body lid screw fixing |         |              | 1                          |
|   |                       |         | Nm           | 0.8                        |
|   |                       |         | lbin         | 7                          |
| Conductor section                             |                       |         |              |                            |
|   | AWG/Kcmil             |         |              |                            |
|   |                       | min     |              | 16                         |
|   |                       | max     |              | 14                         |
|   | IEC                   |         |              |                            |
|   |                       | min     | mm²          | 1or 2                      |
|   |                       |         |              |                            |

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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|                         |                     | max          | mm²      | 2.5            |
|-------------------------|---------------------|--------------|----------|----------------|
|                         |                     | THOM         |          | Self-releasing |
| Cable connection        |                     |              |          | screw terminal |
| Cable entry             |                     |              |          | M20 on the     |
|                         |                     |              |          | bottom         |
| Operations              |                     |              |          |                |
| Mechanical life         |                     |              | cycles   | <1000000       |
| Mechanical operation    |                     |              | cycles/h | 3600           |
| Ambient conditions      |                     |              |          |                |
| Temperature             |                     |              |          |                |
| Ор                      | erating temperature |              |          |                |
|                         |                     | min          | °C       | -25            |
|                         |                     | max          | °C       | +70            |
| Sto                     | orage temperature   |              |          |                |
|                         |                     | min          | °C       | -40            |
|                         |                     | max          | °C       | +70            |
| Resistance & Protection |                     |              |          |                |
| IP degree               |                     |              |          |                |
| -                       |                     | Terminals    |          | IP20           |
|                         |                     | Body housing |          | IP65           |
| Pollution degree        |                     | , ,          |          | 3              |
| Dimensions              |                     |              |          |                |



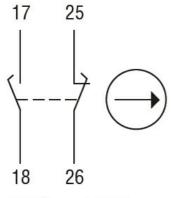
## Wiring diagrams

**KBF2A11** 



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## Slow action



## 1NO + 1NC make before break

| Certifications and  | compliance       |                |
|---------------------|------------------|----------------|
| Compliance          |                  |                |
|                     | CSA C22.2 n° 14  |                |
|                     | EN 50047         |                |
|                     | IEC/EN 60204-1   |                |
|                     | IEC/EN 60947-1   |                |
|                     | IEC/EN 60947-5-1 |                |
|                     | UL508            |                |
| Certificates        |                  |                |
|                     | CCC              |                |
|                     | cULus            |                |
|                     | EAC              |                |
| ETIM classification |                  |                |
| ETIM 8.0            |                  | EC000030 - End |