

**KBF1S11** LIMIT SWITCH, K SERIES, ADJUSTABLE ROLLER LEVER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 1NO+1NC SNAP ACTION. PLASTIC ROLLER



| Product designation      | Adjustable roller<br>lever |
|--------------------------|----------------------------|
| Product type designation | KBF                        |
| General characteristics  |                            |
| Material                 |                            |

|   | Housing             | Polymer<br>thermoplastic  |
|---|---------------------|---------------------------|
|   | Roller              | Plastic                   |
| Contact characteristics                       |                     |                           |
| Type of contact                               |                     | 1NO+1NC Snap<br>action    |
| Thermal current Ith                           | A                   | 10                        |
| IEC/EN 60947-5-1 designation                  |                     | A600 Q600                 |
| Rated insulation voltage Ui                   | V                   | 690                       |
| Rated impulse withstand voltage Uimp          | kV                  | 6                         |
| Insulation class                              |                     |                           |
| Short-circuit protection with fuse            | Class/A             | 10 gG/SC<br>QUICK FUSE    |
| Switching speed                               |                     |                           |
|   | min m/s             | 0.5                       |
|   | max m/s             | 1.5                       |
| IEC Conventional free air thermal current Ith | Α                   | 10                        |
| Resistance per pole (average value)           | mΩ                  | <10                       |
| Mechanical features                           |                     |                           |
| Operating head fixing                         |                     | Locking bayonet<br>insert |
| Operating torque                              |                     |                           |
|   | Ncm                 | 3                         |
|   | ozin                | 4.25                      |
| Tightening torque (Max)                       |                     |                           |
| Switch fixing                                 |                     |                           |
|   | Nm                  | 2.5                       |
|   | Ibin                | 22.1                      |
| Contact terminals                             |                     |                           |
|   | Nm                  | 0.8                       |
|   | lbin                | 7                         |
| Body lid screw fixing                         |                     |                           |
|   | Nm                  | 0.8                       |
|   | lbin                | 7                         |
| Conductor section                             |                     |                           |
| AWG/Kcmil                                     |                     | 16                        |
|   | min                 | 16                        |
| IEC   | max                 | 14                        |
|   | min mm²             | 1or 2                     |
|   | max mm <sup>2</sup> | 2.5                       |
|   |                     | 2.0                       |

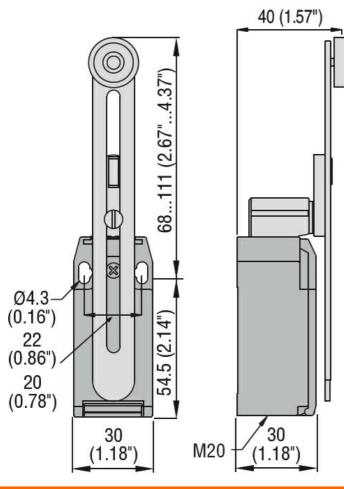
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ENERGY AND AUTOMATION

| Cable connection     |                       |              |          | Self-releasing screw termina |
|----------------------|-----------------------|--------------|----------|------------------------------|
| Cable entry          |                       |              |          | M20 on the bottom            |
| Operations           |                       |              |          |                              |
| Mechanical life      |                       |              | cycles   | <1000000                     |
| Mechanical operatior | 1                     |              | cycles/h | 3600                         |
| Ambient conditions   |                       |              |          |                              |
| Temperature          |                       |              |          |                              |
|                      | Operating temperature |              |          |                              |
|                      |                       | min          | °C       | -25                          |
|                      |                       | max          | °C       | +70                          |
|                      | Storage temperature   |              |          |                              |
|                      |                       | min          | °C       | -40                          |
|                      |                       | max          | °C       | +70                          |
| Resistance & Protec  | tion                  |              |          |                              |
| IP degree            |                       |              |          |                              |
|                      |                       | Terminals    |          | IP20                         |
|                      |                       | Body housing |          | IP65                         |
| Pollution degree     |                       |              |          | 3                            |
| Dimensions           |                       |              |          |                              |



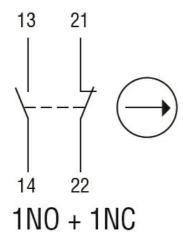
## Wiring diagrams

KBF1S11



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## Snap action



| 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        |                  |                |
|                     | 200              |                |
|                     | cULus            |                |
|                     | EAC              |                |
| ETIM classification | n                |                |
|                     |                  | EC000030 - End |

ETIM 8.0

EC000030 - End switch