

LIMIT SWITCH, K SERIES, ROLLER LEVER PLUNGER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, PLASTIC BODY, CONTACTS 2NO SLOW ACTION. RUBBER ROLLER



KBE3L20

| Product designation | Roller lever plunger |
|--------------------------|-------------------------|
| Product type designation | KBE |
| General characteristics | |
| Material | |

| Roller Roller Rubber Contact ZNO Slow action Type of contact A 10 IEC/EN 60947-5-1 designation A 600 Q600 Rated insulation voltage Ui V 690 Rated insulation voltage Uimp kV 6 Insulation class II 1 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 1.5 IEC Conventional free air thermal current Ith A 10 Resistance per pole (average value) mΩ <10 Mechanical features Uorking bayonet insert Operating head fixing Locking bayonet insert Operating torque Ncm 3 Ightening torque (Max) Switch fixing Nm 0.8 Body lid screw fixing Nm 0.8 Ibin 7 Icclassical fixing Nm 0.8 Integrating torque (Max) | | | Housing | | Polymer thermoplastic |
|--|--------------------------|-------------------------|---------|---------|--------------------------|
| Contact characteristics 2NO Slow action Type of contact 2NO Slow action Thermal current th A 10 EC/EN 60947-5-1 designation A600 Q600 Rated insulation voltage Ui V 690 Rated insulation voltage Uimp kV 6 Insulation class II 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 imax m/s 1.5 1.5 IEC Conventional free air thermal current th A 10 0 Resistance per pole (average value) mΩ <10 | | | Roller | | |
| Type of contact 2NO Slow action Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 0600 Rated insulation voltage Ui V 690 Rated insulation voltage Ui V 690 Rated insulation voltage Ui V 690 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 | Contact characteristic | S | | | |
| Thermal current lth A 10 IEC/EN 60947-5-1 designation A600 Q600 Rated insulation voltage Uin V 690 Rated insulation voltage Uimp KV 6 Insulation class II 10 gG/SC Switching speed min m/s 0.5 witching speed min m/s 1.5 IEC Conventional free air thermal current lth A 10 Mechanical features mon Ω <10 | | - | | | 2NO Slow action |
| IEC/EN 60947-5-1 designation A600 Q600 Rated insulation voltage Ui V 690 Rated insulation voltage Uinp kV 6 Insulation class II 0 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ 10 Mechanical features Locking bayonet insert 0 Operating head fixing Locking bayonet insert 10 Operating torque Ncm 3 0 Operating torque (Max) Switch fixing Ncm 3 0 Tightening torque (Max) Switch fixing Nm 0.8 1 Conductor section AWG/Kcmil Nm 0.8 1 16 IEC min 16 max 14 14 | | | | Α | |
| Rated insulation voltage Ui V 690 Rated impulse withstand voltage Uimp kV 6 Insulation class II 10 gG/SC Short-circuit protection with fuse Class/A 10 gG/SC Switching speed min m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ <10 | IEC/EN 60947-5-1 de | signation | | | A600 Q600 |
| Rated impulse withstand voltage Uimp kV 6 Insulation class II Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 | | | | V | 690 |
| Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 | | | | kV | 6 |
| Short-Circuit protection with fuse OLESS/A QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 Mechanical features Operating head fixing Operating torque Operating torque Norm 3 ozin 4.25 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil Min 16 max 14 IEC min mm² 1or 2 | Insulation class | | | | II |
| min m/s 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 | Short-circuit protection | n with fuse | | Class/A | 10 gG/SC QUICK FUSE |
| max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ <10 | Switching speed | | | | |
| IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 | | | min | m/s | 0.5 |
| Resistance per pole (average value) mΩ <10 | | | max | m/s | 1.5 |
| Mechanical features Locking bayonet insert Operating head fixing Locking bayonet insert Operating torque Ncm 3 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Ibin 7 Conductor section AWG/Kcmil min 16 IEC min 14 10 r 2 | IEC Conventional free | air thermal current Ith | | А | 10 |
| Operating head fixing Locking bayonet insert Operating torque Nom 3 Tightening torque (Max) Switch fixing 4.25 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 1bin 22.1 Contact terminals Nm 0.8 Ibin 7 1bin 7 Body lid screw fixing Nm 0.8 Ibin 7 16 MCMG/Kcmil min 16 IEC min 14 | Resistance per pole (a | average value) | | mΩ | <10 |
| Operating near insert insert Operating torque Ncm 3 ozin 4.25 Tightening torque (Max) Switch fixing Nm Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 IEC min min 14 | Mechanical features | | | | |
| Ncm 3 Tightening torque (Max) Switch fixing Switch fixing Nm 2.5 Ibin Ibin 22.1 Contact terminals Nm Body lid screw fixing Nm Nom 0.8 Ibin 7 Conductor section Nm AWG/Kcmil min IEC min 16 min mm 14 | Operating head fixing | | | | |
| Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 16 AWG/Kcmil min 16 IEC min 14 | Operating torque | | | | |
| Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil Ibin AWG/Kcmil min 16 IEC min 14 | | | | Ncm | 3 |
| Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 max 14 IEC min mm² 10r 2 | | | | ozin | 4.25 |
| Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil min 16 max 14 IEC min mm | Tightening torque (Ma | | | | |
| Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil min 7 IEC min 16 min 14 12 | | Switch fixing | | | |
| Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil 16 min 16 IEC min 14 | | | | | |
| Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section NMG/Kcmil 7 AWG/Kcmil 16 IEC 14 IEC 10 2 | | - | | lbin | 22.1 |
| Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil 16 IEC min 14 IEC min 10 2 | | Contact terminals | | | |
| Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil Initial for the section of the section | | | | | |
| Nm 0.8 Ibin 7 Conductor section AWG/Kcmil | | Dedu lid eerow fiving | | nidi | 1 |
| Ibin 7 Conductor section AWG/Kcmil 16 | | Body lid screw fixing | | Nm | 0.9 |
| Conductor section AWG/Kcmil min 16 max 14 IEC min mmm² | | | | | |
| AWG/Kcmil min 16 max 14 IEC min mm ² 1or 2 | Conductor section | | | | 1 |
| min 16 max 14 IEC min mm ² 1or 2 | | AWG/Kcmil | | | |
| IEC min mm² 1or 2 | | | min | | 16 |
| IEC min mm ² 1or 2 | | | | | |
| min mm ² 1 or 2 | | IEC | max | | |
| | | | min | mm² | 1or 2 |
| | | | | | |



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| ENERGY AND AUTOMATION | | | RULLER |
|--|--------------|----------|-------------------------------|
| Cable connection | | | Self-releasing screw terminal |
| Cable entry | | | M20 on the bottom |
| Operations | | | |
| Mechanical life | | cycles | <1000000 |
| Mechanical operation Ambient conditions | | cycles/h | 3600 |
| Temperature | | | |
| Operating temperature | | | |
| operating temperature | min | °C | -25 |
| | max | °C | +70 |
| Storage temperature | | | |
| | min | °C | -40 |
| | max | °C | +70 |
| Resistance & Protection | | | |
| IP degree | | | |
| | Terminals | | IP20 |
| Dollution dograd | Body housing | | IP65 3 |
| Pollution degree Dimensions | | | 3 |
| | | | |
| | 42 (1.57") | | |
| Ø50x10 (1.97"x0.39") Ø4.3 (0.16") 20 (0.78") 273") | | | |

Wiring diagrams

30

(1.18"

30

1.18

M20

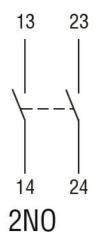
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Slow action



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