ENERGY AND AUTOMATION K SERIES, SLOTTED LEVER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, METAL BODY, CONTACTS 2NO+1NC SLOW ACTION



| Product type designation KMQ General characteristics Aluminium-zinc allow Contact characteristics NO+1NC Slow action Contact characteristics 2NO+1NC Slow action Type of contact Aluminium-zinc allow Thermal current lth A 10 EC/EN 60947-5-1 designation A 10 Rated insulation voltage Ui V 440 Rated insulation voltage Uinp KV 4 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 max m/s 1.5 10 gG/SC QUICK FUSE Switching speed min m/s 1.0 Resistance per pole (average value) mΩ <10 OperationS gG/SC 100000 B10d cycles 100000 Mechanical life cycles 100000 Mechanical life cycles 100000 Mechanical life cycles 100000 Operating head fixing Locking bayonet insert | | | | | |
|--|--------------------------|-----------------------|-----|-----------|-----------------|
| General characteristics Atuminium-zinc alloy Housing Material Atuminium-zinc alloy Contact characteristics 2NO+1NC Slow action Type of contact A 10 Thermal current lth A 10 EIC/EN 60947-5-1 designation A300 Q300 Rated insulation voltage Ui V 440 Rated insulation voltage Uinp kV 4 Short-circuit protection with fuse Class/A Switching speed min max m/s Mechanical life cycles Operations cycles Mechanical life cycles Operation 43600 Operations cycles Mechanical life cycles Operating head fixing Locking bayonet insert Operating torque Nm Operating torque (Max) Switch fixing Tightening torque (Max) Switch fixing Mody lid screw fixing Nm Operating torque (Max) Nm AWG/Kcmil Nm | Product designation | | | | Slotted lever |
| General characteristics Aluminium-zinc alloy Contact characteristics 2NO+1NC Slow action Type of contact 2NO+1NC Slow action Thermal current lth A EC/CIN 609/75-1 designation A 300 0300 Rated insulation voltage Ui V Short-circuit protection with fuse Class/A Switching speed min max m/s Desistance per pole (average value) mQ Operation cycles Mechanical life cycles Operation cycles Mechanical life cycles Operations cycles Mechanical life cycles Operations cycles Mechanical life cycles Operating head fixing Locking bayonel insert Operating head fixing 15 Contact terminals m Machanical life cycles Operating head fixing 2.5 Dim 2.5 Insert 2.5 Dim 2.5 Insert 0.8 Dim 2.5 | Product type designat | ion | | | KMQ |
| Housing Material Aluminium-zinc allow Contact characteristics 2NQ+1NC Slow action Thermal current lth A 10 EC/EN 60947-5-1 designation A300 0300 Rated insulation voltage Uin V 440 Rated insulation voltage Uinp KV 4 Short-circuit protection with fuse Class/A 10 gG/SC gUICK FUSE Switching speed min m/s 0.5 EEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 | | | | | |
| Housing Material alloy Contact characteristics 2NO+1NC Slow action Thermal current lth A 10 EC/EN 603/7-5-1 designation A300 Q300 Rated insulation voltage Ui V 440 Rated insulation voltage Uinp KV 4 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 1.5 EC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ <10 | General characteristic | S | | | |
| Contact characteristics alloy Type of contact 2NO+1NC Slow action Thermal current lth A 10 IEC/EN 60947-5-1 designation A 300 Q300 Rated insulation voltage Ui V 440 Rated insulation voltage Uimp kV 4 Short-circuit protection with fuse Class/A 10 gG/SC Class/A Switching speed min m/s 0.5 EC Conventional free air thermal current lth A 10 Resistance per pole (average value) mQ <10 | Housing Material | | | | |
| Type of contact 2NO+1NC Slow action Thermal current lth A 10 IEC/EN 60947-5-1 designation X300 Q300 Rated insulation voltage U V 440 Rated insulation voltage Uimp KV 4 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/s 0.5 EC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 | _ | 2 | | | alloy |
| 1ype of contact action Thermal current tth A 10 EC/EN 60947-5-1 disgnation X300 Q300 Rated insulation voltage U V 440 Rated insulation voltage U V 440 Rated insulation voltage U V 440 Short-circuit protection with fuse Class/A 10 gG/SC Switching speed min m/s 0.5 max m/s 1.5 1 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ | | | | | 2NO+1NC Slow |
| IEC/EN 60947-5-1 designation A300 Q300 Rated insulation voltage Ui Rechanical life Rechanical fixing R | Type of contact | | | | |
| Rated insulation voltage Ui V 440 Rated inpulse withstand voltage Uimp kV 4 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 | Thermal current Ith | | | А | 10 |
| Rated impulse withstand voltage Uimp kV 4 Short-circuit protection with fuse Class/A 10 gG/SC QUICK FUSE Switching speed min m/% 0.5 max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 | IEC/EN 60947-5-1 de | signation | | | A300 Q300 |
| 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 Operations Mechanical life cycles 100000 B10d cycles/h 3600 Output characteristics Mechanical life cycles 100000 Mechanical features Operating head fixing Class/A 10 Nm 15 Operating torque (Max) Switch fixing Nm 2.5 Ibin 72 Conductor section AWG/Kcmil min 16 | Rated insulation voltage | ge Ui | | V | 440 |
| Sindredical protection with ruse Class 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) mQ <10 | Rated impulse withsta | nd voltage Uimp | | kV | |
| 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 | |
| max m/s 1.5 IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 | Switching speed | | | | |
| IEC Conventional free air thermal current lth A 10 Resistance per pole (average value) mΩ <10 Operations Wechanical life cycles 100000 B10d cycles 100000 Mechanical operation cycles/h 3600 Output characteristics Mechanical features Operating head fixing Locking bayonet insert Operating torque Ncm 15 ozin 21.2 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 | | | min | | |
| Resistance per pole (average value) mΩ <10 | | | max | | |
| Operations explain s Mechanical life cycles 100000 B10d cycles 100000 Mechanical operation cycles 3600 Output characteristics cycles 100000 Mechanical life cycles 100000 Operating head fixing Locking bayonet insert Insert Operating torque (Max) Switch fixing Nm 11.2 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 7 Contact terminals Nm 0.8 Ibin 7 Conductor section Nm 0.8 AWG/Kcmil min 16 Min 16 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
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| B10d cycles 100000 Mechanical operation cycles/h 3600 Output characteristics mechanical life cycles 100000 Mechanical features use Locking bayonet insert Operating head fixing Ncm 15 Operating torque Ncm 15 Operating torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Sold Screw fixing AWG/Kcmil min 16 | | | | e vele e | 100000 |
| Mechanical operation cycles/h 3600 Output characteristics Mechanical life cycles 100000 Mechanical features Operating head fixing Locking bayonet insert Operating torque Switch fixing Nrm 15 ozin 21.2 Tightening torque (Max) Switch fixing Nrm 2.5 Ibin 22.1 Contact terminals Nrm 0.8 Ibin 7 Body lid screw fixing Nrm 0.8 Ibin 7 Conductor section AWG/Kcmil nrm 16 | | | | | |
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| Mechanical life cycles 10000 Mechanical features Locking bayonet insert Operating head fixing Locking bayonet insert Operating torque Ncm 15 ozin Tightening torque (Max) Switch fixing Nm 2.5 Example 1 Contact terminals Nm 2.5 Body lid screw fixing Nm 0.8 lbin 7 Conductor section AWG/Kcmil min 16 | | | | cycles/fi | 3000 |
| Mechanical features Locking bayonet insert Operating head fixing Locking bayonet insert Operating torque Ncm 15 ozin Tightening torque (Max) Switch fixing Nm 2.5 lbin Zontact terminals Nm 0.8 lbin 7 Body lid screw fixing Nm 0.8 lbin 7 Conductor section AWG/Kcmil min 16 | | | | cycles | 100000 |
| Operating head fixing Locking bayonet insert Operating torque Ncm 15 Operating torque (Max) Ncm 21.2 Tightening torque (Max) Switch fixing Nm 2.5 Ibin 22.1 Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Ibin 7 Conductor section AWG/Kcmil Imin 16 | | | | eyelee | 100000 |
| Operating read fixing insert Operating torque Operating torque Ncm 15 ozin 21.2 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 | | | | | Locking bayonet |
| Ncm 15 ozin 21.2 Tightening torque (Max) Switch fixing 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 Min 16 | Operating head fixing | | | | |
| 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 Nm 16 | Operating torque | | | | |
| Tightening torque (Max) Switch fixing Nm 2.5 lbin 22.1 Contact terminals Nm 0.8 lbin 7 Body lid screw fixing Nm 0.8 lbin 7 Conductor section AWG/Kcmil min 16 | | | | | |
| Switch fixing 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 16 | | | | ozin | 21.2 |
| Nm 2.5 Ibin 22.1 Contact terminals Mm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 | Tightening torque (Ma | | | | |
| Ibin 22.1 Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil 16 | | Switch fixing | | | |
| Contact terminals Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min AWG/Kcmil min 16 | | | | | |
| Nm 0.8 Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 | | Contact terminals | | IDIN | ZZ.1 |
| Ibin 7 Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 | | Contact terminals | | Nm | 0.9 |
| Body lid screw fixing Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 | | | | | |
| Nm 0.8 Ibin 7 Conductor section AWG/Kcmil min 16 | | Body lid screw fixing | | | |
| Lbin 7 Conductor section AWG/Kcmil min 16 | | | | Nm | 0.8 |
| Conductor section AWG/Kcmil min 16 | | | | | |
| AWG/Kcmil min 16 | Conductor section | | | | |
| | | AWG/Kcmil | | | |
| max 14 | | | min | | 16 |
| | | | max | | 14 |



ENERGY AND AUTOMATION

KMQ1L21 electric LIMIT SWITCH, K SERIES, SLOTTED LEVER, 1 BOTTOM CABLE ENTRY. DIMENSIONS TO EN 50047, METAL BODY, CONTACTS 2NO+1NC SLOW ACTION

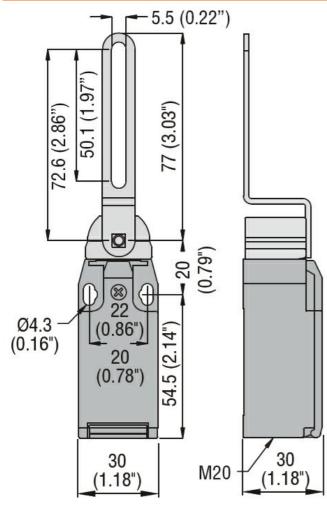
max

°C

+70

| | IEC | | | |
|--------------------|-----------------------|-----|-----|-------------------------------|
| | | min | mm² | 1or 2 |
| | | max | mm² | 2.5 |
| Cable connection | | | | Self-releasing screw terminal |
| Cable entry | | | | M20 on the bottom |
| Ambient conditions | | | | |
| Pollution degree | | | | 3 |
| Temperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -25 |
| | | max | °C | +70 |
| | Storage temperature | | | |
| | | min | °C | -40 |
| | | | | |





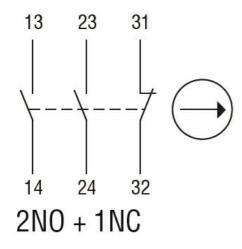
Wiring diagrams

KMQ1L21



ENERGY AND AUTOMATION

Slow 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 | | |
| | CCC | |
| | cULus | |
| | EAC | |
| ETIM classification | n | |
| | | EC000030 - End |

ETIM 8.0

switch