



Palm switch, 1N/O+1N/C, mushroom black, surface mounting

Part no. **FAK-S/KC11/I**  
 Catalog No. **229749**  
 Eaton Catalog No. **FAK-S-KC11-I**  
 EL-Nummer **0004355221**  
 (Norway)

**Technical data**

**General**

|                                    |              |                   |  |
|------------------------------------|--------------|-------------------|--|
| Standards                          |              |                   | IEC/EN 60947-5-1, VDE 0660   |
| Lifespan, mechanical               | Operations   | x 10 <sup>6</sup> | > 1  |
| Operating frequency                | Operations/h |                   | ≤ 3600   |
| Actuating force                    | N            |                   | 20 - 40  |
| Degree of protection, IEC/EN 60529 |              |                   | IP66, IP67, IP69K  |
| Climatic proofing                  |              |                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature                |              |                   |  |
| Open                               | °C           |                   | -25 - +55  |
| Mounting position                  |              |                   | As required  |
| Mechanical shock resistance        | g            |                   | > 15<br>Shock duration 11 ms<br>Sinusoidal<br>according to IEC 60068-2-27      |

**Design verification as per IEC/EN 61439**

|  |                   |    |  |
|--|-------------------|----|--|
| Technical data for design verification   |                   |    |  |
| Rated operational current for specified heat dissipation   | I <sub>n</sub>    | A  | 6  |
| Heat dissipation per pole, current-dependent   | P <sub>vid</sub>  | W  | 0.11   |
| Equipment heat dissipation, current-dependent  | P <sub>vid</sub>  | W  | 0  |
| Static heat dissipation, non-current-dependent   | P <sub>vs</sub>   | W  | 0  |
| Heat dissipation capacity  | P <sub>diss</sub> | W  | 0  |
| Operating ambient temperature min.   |                   | °C | -25  |
| Operating ambient temperature max.   |                   | °C | 55   |
| IEC/EN 61439 design verification   |                   |    |  |
| 10.2 Strength of materials and parts   |                   |    |  |
| 10.2.2 Corrosion resistance  |                   |    | Meets the product standard's requirements.   |
| 10.2.3.1 Verification of thermal stability of enclosures   |                   |    | Meets the product standard's requirements.   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat   |                   |    | Meets the product standard's requirements.   |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |                   |    | Meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation   |                   |    | Please enquire   |
| 10.2.5 Lifting   |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.6 Mechanical impact   |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.7 Inscriptions  |                   |    | Meets the product standard's requirements.   |
| 10.3 Degree of protection of ASSEMBLIES  |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.4 Clearances and creepage distances   |                   |    | Meets the product standard's requirements.   |
| 10.5 Protection against electric shock   |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.6 Incorporation of switching devices and components   |                   |    | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.7 Internal electrical circuits and connections  |                   |    | Is the panel builder's responsibility.   |
| 10.8 Connections for external conductors   |                   |    | Is the panel builder's responsibility.   |
| 10.9 Insulation properties   |                   |    |  |
| 10.9.2 Power-frequency electric strength   |                   |    | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage   |                   |    | Is the panel builder's responsibility.   |
| 10.9.4 Testing of enclosures made of insulating material   |                   |    | Is the panel builder's responsibility.   |
| 10.10 Temperature rise   |                   |    | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |

|                                     |  |  |
|-------------------------------------|--|--|
| 10.11 Short-circuit rating          |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.           |
| 10.12 Electromagnetic compatibility |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.           |
| 10.13 Mechanical function           |  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

## Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Foot-/palm switch complete (EC000231)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Foot, palm switch (ecl@ss10.0.1-27-37-12-17 [AKF035014])

|   |    |            |
|---|----|------------|
| Unlocking method                              |    | None       |
| Colour cap                                    |    | Black      |
| Number of contacts as normally open contact   |    | 1          |
| Number of contacts as normally closed contact |    | 1          |
| Switching function latching                   |    | No         |
| Spring-return                                 |    | Yes        |
| Hole diameter                                 | mm | 0          |
| Degree of protection (IP)                     |    | IP67/IP69K |
| Degree of protection (NEMA)                   |    | 4X         |

## Approvals

|                             |  |  |
|-----------------------------|--|--|
| Product Standards           |  | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking |
| UL File No.                 |  | E29184   |
| UL Category Control No.     |  | NKCR   |
| CSA File No.                |  | 012528   |
| CSA Class No.               |  | 3211-03  |
| North America Certification |  | UL listed, CSA certified   |
| Degree of Protection        |  | UL/CSA Type 3R, 4X, 12, 13   |

## Dimensions

