Specifications

Photo is representative

Eaton 229749

Eaton Moeller® series FAK Palm switch, 1N/O+1N/C, mushroom black, surface mounting

General specifications

PRODUCT NAME	Eaton Moeller® series FAK Palm switch
CATALOG NUMBER	229749
EAN	4015082297497
PRODUCT LENGTH/DEPTH	100 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	85 mm
PRODUCT WEIGHT	0.324 kg
CERTIFICATIONS	UL 508 CSA IEC/EN 60947-5 CSA-C22.2 No. 94-91 UL Category Control No.: NKCR UL File No.: E29184 CE CSA Class No.: 3211-03 IEC/EN 60947-5-1 UL CSA File No.: 012528 CSA-C22.2 No. 14-05 VDE 0660
CATALOG NOTES	Contacts with safety function, by positive opening to IEC/EN 60947-5-1

Features & Functions

ENCLOSURE COLOR	Black Gray
UNLOCKING METHOD	None

General

CONNECTION TO SMARTWIRE-DT	No
DEGREE OF PROTECTION	NEMA 4X IP67/IP69K
LIFESPAN, MECHANICAL	1,000,000 Operations (AC operated)
MOUNTING POSITION	As required
OPENING DIAMETER	0 mm
OPERATING FREQUENCY	3600 Operations/h
PRODUCT CATEGORY	Foot and palm switches
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-Sinusoidal shock 11 ms Mechanical, According to IEC/EN 60068-2-27
TYPE	Complete device

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Actuator

ACTUATING FORCE	40 N
ACTUATOR COLOR	Black
ACTUATOR FUNCTION	Momentary Spring-return

Contacts

NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.11 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

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 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. 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.
10.9.2 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.

Resources

CATALOGUES	eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf eaton-rmq-titan-brochure-br047004en-en-us.pdf
DECLARATIONS OF CONFORMITY	DA-DC-00004173.pdf DA-DC-00004084.pdf
DRAWINGS	eaton-operating-switch-fak-palm-switch-dimensions.eps eaton-operating-switch-fak-palm-switch-3d-drawing.eps eaton-general-totally-insulated-t0-main-switch-symbol.eps eaton-operating-button-symbol-005.eps eaton-operating-button-symbol-007.eps eaton-operating-fak-palm-switch-3d-drawing.eps eaton-general-fak-palm-switch-symbol.eps eaton-operating-m22-symbol.eps
ECAD MODEL	ETN.FAK-S_KC11_I
INSTALLATION INSTRUCTIONS	IL047027ZU IL04716006Z
MCAD MODEL	fak fak.stp
WIRING DIAGRAMS	eaton-operating-contact-fak-palm-switch-wiring-diagram.eps

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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