229492 M22-R47K		
Overview	Specifications	Resources
Delivery program	⊂ DE	_IVERY PROGRAM
Technical data	RVQ Class	lesign cal
Design verification as per IEC/EN 61439	Part g M22	oup reference (e.g. DIL)
Technical data ETIM7		ng hole diameter [□] m
Approvals		function iometer
Dimensions	Single Single	unit/Complete unit unit
	Accu	ption idual screw terminals acy of resistance value: ± 10% (linear) nical angle of rotation: 285° (+0/-5°)
	Conta	ot sequence



Impedance [R] 47 kΩ

Rated power [P] 0.5 W

Degree of Protection IP66

Front ring Bezel: titanium

Connection to SmartWire-DT no

# **TECHNICAL DATA**

### General

Standards IEC/EN 60947 VDE 0660

Lifespan, mechanical [Operations] 25000

Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Degree of Protection IP66

Ambient temperature Open -25 - +70 °C Mounting position As required

Mechanical shock resistance 30 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27 g

Terminal capacities Solid 0.5 - 1.5 mm<sup>2</sup>

Terminal capacities Stranded 0.5 - 1.5 mm<sup>2</sup>

Tightening torque for terminal screw  $0.5 \ \mathrm{Nm}$ 

shipping classification DNV GL LR



## Contacts

Rated impulse withstand voltage  $\left[ U_{\text{imp}} \right]$  4000 V AC

Rated insulation voltage [U ] 250 V

Overvoltage category/pollution degree  ${\rm III}/{\rm 3}$ 

# **DESIGN VERIFICATION AS PER IEC/EN 61439**

#### Technical data for design verification

Rated operational current for specified heat dissipation  $[l_n]$  0 A

Heat dissipation per pole, current-dependent  $[\mathsf{P}_{\text{id}}]$  0 W

Equipment heat dissipation, current-dependent  $[P_{id}]$ 0 W

Static heat dissipation, non-current-dependent  $[\mathrm{P}_{\mathrm{vs}}]$  0.5 W

Heat dissipation capacity  $[P_{\text{diss}}]$  0 W

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +70 °C

## IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatMeets the product standard's requirements.

10.2 Strength of materials and parts 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 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation Please enquire

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES 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 properties10.9.2 Pow er-frequency electric strengthIs the panel builder's responsibility.

10.9 Insulation properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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) / Potentiometer for control circuit devices (EC001027)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Potentiometer for command devices (ecl@ss10.0.1-27-37-12-27 [AKF045014])

Resistance 47000 Ohm

Power consumption 0.5 W

Hole diameter 22.5 mm

Number of revolutions

Type of electric connection Screw connection

Degree of protection (IP) IP66

Degree of protection (NEVA) 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







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