

Specifications



Photo is representative



Eaton 187031

Eaton Moeller® series M30 Potentiometer, flat front, M30, 30.5 mm, R 47 kΩ, P 0.5 W, Metal bezel

General specifications

PRODUCT NAME	Eaton Moeller® series M30 potentiometer
CATALOG NUMBER	187031
MODEL CODE	M30C-FR47K
EAN	4015081820979
PRODUCT LENGTH/DEPTH	36 mm
PRODUCT HEIGHT	63 mm
PRODUCT WIDTH	46 mm
PRODUCT WEIGHT	0.055 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947



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Actuator

BEZEL COLOR	Titanium
DESIGN	Flat front
ELECTRIC CONNECTION TYPE	Screw connection
FITTED WITH:	3 individual screw terminals

Communication

CONNECTION TO SMARTWIRE-DT	No
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Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

Design verification

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.
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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0.5 W

Electrical rating

POWER CONSUMPTION	0.5 W
RATED INSULATION VOLTAGE (UI)	250 V
RATED POWER	0.5 VA
RESISTANCE	47000 Ohm

Terminal capacities

TERMINAL CAPACITY (SOLID)	0.5 - 1.5 mm ²
TERMINAL CAPACITY (STRANDED)	0.5 - 1.5 mm ²
TIGHTENING TORQUE	0.5 Nm, Screw terminals

General information

DEGREE OF PROTECTION	IP66 NEMA Other
LIFESPAN, MECHANICAL	25,000 Operations
MOUNTING POSITION	As required
OPENING DIAMETER	30 mm
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V AC
TYPE	Potentiometer

Resources

CATALOGUES	eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-potentiometer-declaration-of-conformity-eu251540en.pdf eaton-operating-m30-dimensions-006.eps eaton-operating-m30-dimensions-005.eps eaton-operating-m30-dimensions-004.eps eaton-operating-m30-potentiometer-dimensions.eps eaton-operating-m30-potentiometer-3d-drawing.eps eaton-general-m22-symbol.eps eaton-general-approval-m22-symbol.eps
DRAWINGS	
ECAD MODEL	DA-CE-ETN.M30C-FR47K
INSTALLATION INSTRUCTIONS	eaton-operating-devices-m30-rmq-titan-flat-front-instruction-leaflet-il047019zu.pdf IL047030ZU

MCAD MODEL	DA-CS-potentiometer flatfront eaton-potentiometers-mcad-drawings-flatfront.dwg
WIRING DIAGRAMS	eaton-operating-potentiometer-m30-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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