



Potentiometer, flat front, M30, 30.5 mm, R 47 kΩ, P 0.5 W, Metal bezel

Part no. M30C-FR47K
187031
EL Number 4315729
(Norway)

General specifications	
Product name	Eaton Moeller® series M30 Potentiometer
Part no.	M30C-FR47K
EAN	4015081820979
Product Length/Depth	36 millimetre
Product height	63 millimetre
Product width	46 millimetre
Product weight	0.055 kilogram
Certifications	VDE 0660 IEC/EN 60947
Product Tradename	M30
Product Type	Potentiometer
Product Sub Type	None
Features & Functions	
Bezel color	Titanium
Design	Flat front
Electric connection type	Screw connection
Fitted with:	3 individual screw terminals
General information	
Accuracy	± 10 % (linear), Resistance value
Degree of protection	IP66 NEMA Other
Lifespan, mechanical	25,000 Operations
Opening diameter	30 mm
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage (Uimp)	4000 V AC
Type	Potentiometer
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	Not planned
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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
Electrical rating	
Power consumption	0.5 W
Rated insulation voltage (Ui)	250 V
Rated power	0.5 V·A
Resistance	47000 Ohm
Communication	
Connection to SmartWire-DT	No
Design verification	

Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdis		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
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Potentiometer for command devices (EC001027)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Potentiometer for command devices (eci@ss13-27-37-12-27 [AKF045019])		
Resistance	Ohm	47000
Power consumption	W	0.5
Hole diameter	mm	30
Number of revolutions		1 - 1
Type of electric connection		Screw connection
Degree of protection (IP)		IP66
Degree of protection (NEMA)		Other