

Potentiometer, flat front, M30, 30.5 mm, R 1000 kΩ, P 0.5 W, Metal bezel

Part no. **M30C-FR1M**  
**187037**  
 EL Number **4315735**  
 (Norway)

General specifications		
Product name		Eaton Moeller® series M30 Potentiometer
Part no.		M30C-FR1M
EAN		4015081821037
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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities		
Terminal capacity (solid)		0.5 - 1.5 mm <sup>2</sup>
Terminal capacity (stranded)		0.5 - 1.5 mm <sup>2</sup>
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		1000000 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	1000000
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