DATASHEET - M30C-FR100K

Potentiometer, flat front, M30, 30.5 mm, R 100 kΩ, P 0.5 W, Metal bezel

Powering Business Worldwide

Part no.	**M30C-FR100K**
	187032
EL Number (Norway)	**4315730**

Product name	Eaton Moeller® series M30 Potentiometer
Part no.	M30C-FR100K
EAN	4015081820986
Product Length/Depth	36 millimetre
Product height	63 millimetre
Product width	46 millimetre
Product weight	0.055 kilogram
Certifications	IEC/EN 60947 VDE 0660
Product Tradename	M30
Product Type	Potentiometer
Product Sub Type	None
Bezel color	Metal
Design	Flat front
Electric connection type	Screw connection
Fitted with:	3 individual screw terminals
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
Mounting position	As required
Shock resistance	Not planned
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 capacity (solid)	0.5 - 1.5 mm^2
Terminal capacity (stranded)	0.5 - 1.5 mm^2
Tightening torque	0.5 Nm, Screw terminals
Power consumption	0.5 W
Rated insulation voltage (Ui)	250 V
Rated power	0.5 V·A
Resistance	100000 Ohm
Connection to SmartWire-DT	No
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
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 8.0

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 (ecl@ss10.0.1-27-37-12-27 [AKF045014])			
Resistance		Ohm	100,000
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

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