DATASHEET - M30C-FR100K-BLANK



Potentiometer, Flat Front, without scale/inscription, R = 100 kOhm

Powering Business Worldwide*

Part no. M30C-FR100K-BLANK Catalog No. 187044

Eaton Catalog No. M30C-FR100K-BLANK

Delivery program	De	livery	pro/	gram
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RMQ design			flat front
Part group reference (e.g. DIL)			M30
Mounting hole diameter	Ø	mm	30.5
Basic function			Potentiometer
Single unit/Complete unit			Single unit
Description			3 individual screw terminals Accuracy of resistance value: ± 10% (linear) Without scale/inscription
Contact sequence			<u>Z1</u> <u>Z2</u>
Impedance	R	kΩ	100
Rated power	P	W	0.5
Degree of Protection			IP66
Front ring			Metal bezel
Connection to SmartWire-DT			no

Technical data

Rated insulation voltage

Overvoltage category/pollution degree

General

VDE 0660 ifespan, mechanical Operations Climatic proofing Climati	delieral			
Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Degree of Protection Degree of Protection Depen Open Octoor Degree of Protection Open Octoor Octoor Open Octoor Octoor Open Octoor Open Octoor Open Octoor Octoor Open Octoor Open Octoor Oc	Standards			
Damp heat, cyclic, to IEC 60068-2-30 Degree of Protection Pe6 Ambient temperature Open Ocen Ocen Ocen Ocen Ocen Ocen Ocen Oc	Lifespan, mechanical	Operations		25000
Open °C -25 - +70 Mounting position	Climatic proofing			
Open Mounting position Mechanical shock resistance Germinal capacities Solid Stranded Mechanical shock resistance Mechanical shock	Degree of Protection			IP66
Mounting position Mechanical shock resistance g not planned ferminal capacities mm² Solid mm² 0.5 - 1.5 Stranded mm² 0.5 - 1.5 Tightening torque for terminal screw Nm 0.5	Ambient temperature			
Mechanical shock resistance g not planned erminal capacities mm² Solid mm² 0.5 - 1.5 Stranded mm² 0.5 - 1.5 Stranded mm² 0.5 - 1.5 Stranded mm² 0.5 - 1.5	Open		°C	-25 - +70
Ferminal capacities mm²	Mounting position			As required
Solid mm² 0.5 - 1.5 Stranded mm² 0.5 - 1.5 Tightening torque for terminal screw Nm 0.5 Sontacts	Mechanical shock resistance		g	not planned
Stranded mm² 0.5 - 1.5 Tightening torque for terminal screw Nm 0.5 Contacts	Terminal capacities		mm^2	
rightening torque for terminal screw Nm 0.5 Contacts	Solid		mm^2	0.5 - 1.5
ontacts	Stranded		mm^2	0.5 - 1.5
	Tightening torque for terminal screw		Nm	0.5
Rated impulse withstand voltage U _{imp} V AC 4000	Contacts			
	Rated impulse withstand voltage	U _{imp}	V AC	4000

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0.5

250 III/3

 U_{i}

Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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.
$10.2.3.3\ Verification\ of\ resistance\ of\ insulating\ materials\ to\ abnormal\ heat\ and\ fire\ due\ to\ internal\ electric\ effects$			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 Insulation properties			
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 switch gear must be observed. $\label{eq:constraint}$
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.

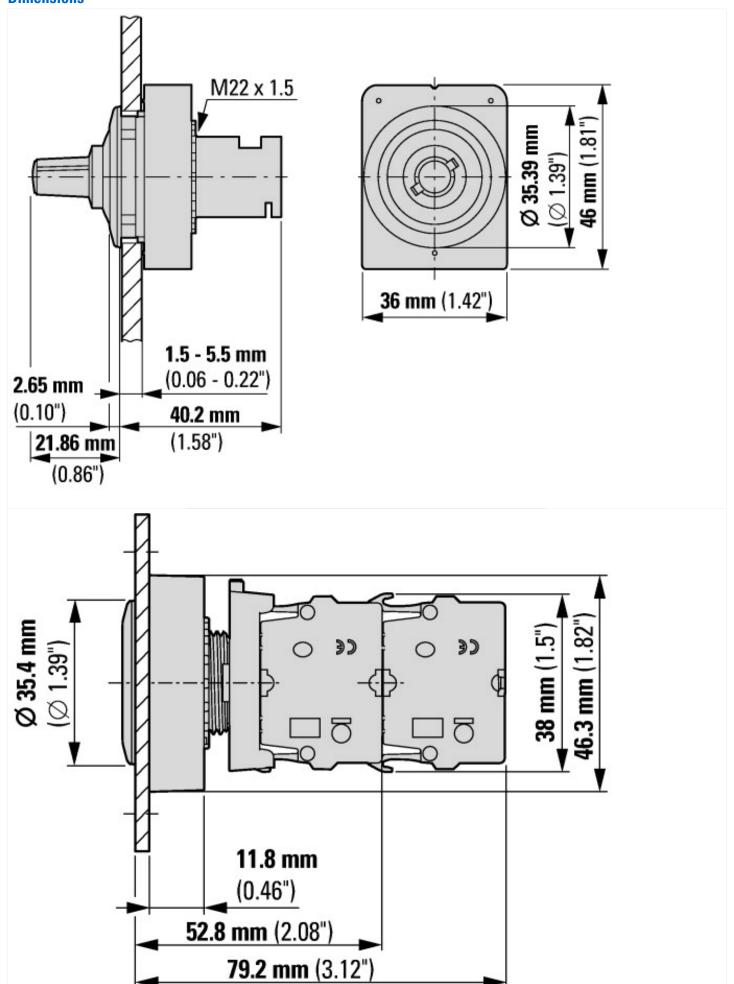
Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Potentiometer for control circuit devices (EC001027)

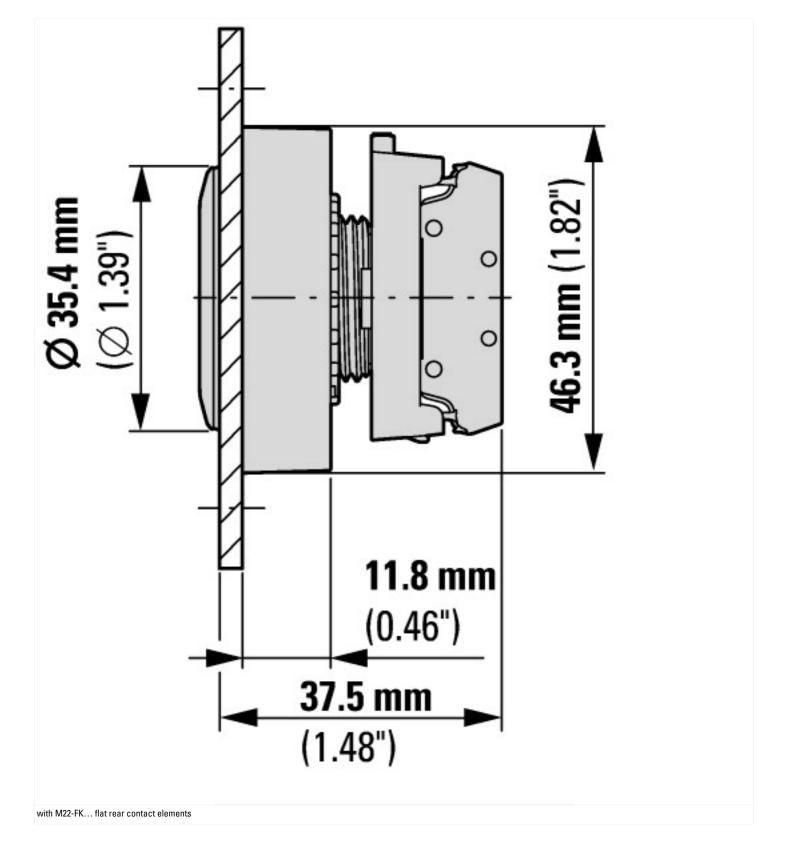
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Potentiometer for command devices (ecl@ss10.0.1-27-37-12-27 [AKF045014])

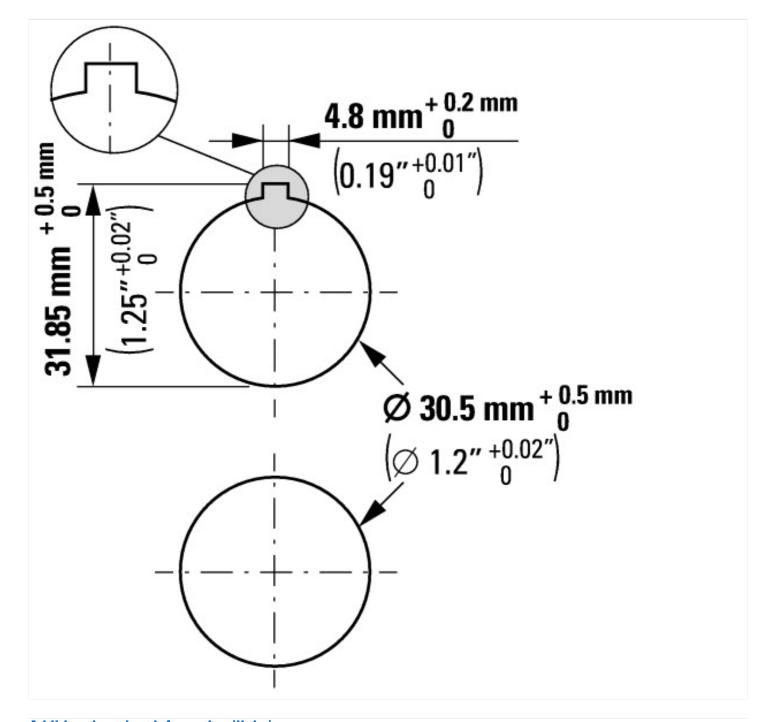
Resistance	Ohm	100000
Power consumption	W	0.5
Hole diameter	mm	30
Number of revolutions		1-1
Type of electric connection		Screw connection
Degree of protection (IP)		IP66
Degree of protection (NEMA)		Other

Dimensions



with 2 M22-K... standard contact elements





Additional product information (links)

IL047019ZU Flat Front

IL047019ZU Flat Front ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL047019ZU2018_05.pdf