DATASHEET - M22-LED230-B



Light element, LED, blue, front mount, 85-264VAC, screw conn



Powering Business Worldwide[™]

Part no. M22-LED230-B Catalog No. 218059 Alternate Catalog M22-LED230-BQ

No.

EL-Nummer 4355378

(Norway)



Delivery program

- chiroly brogram			
Basic function accessories			LED elements
Connection technique			Screw terminals
Fixing			Front fixing
Rated operational voltage	U _e	V	85 - 264 V AC, 50/60 Hz
Rated operational current	le	mA	5 - 15
Power consumption	P _{max} .	W	0.33
Lifespan to EN 60064 a=t+25 °C	t _{mean} (AC)	h	100000
Degree of Protection			IP20
			At 230 V
Colour			
			Blue
Connection to SmartWire-DT			no
Approval			LED
Connection technique			Screw terminals

Connection technique

Screw terminals

Notes

For indicator lights, illuminated pushbutton actuators, and illuminated selector switch actuators, the following applies:

M22...-R only in combination with M22-LED...-R

M22...-G only in combination with M22-LED...-G

M22...-W only in combination with M22-LED...-W

M22...-Y only in combination with M22-LED...-W

M22...-B in combination with M22-LED...-W or M22-LED...-B

Technical data

General

Standards		IEC 60947-5-1
Operating torque (screw terminals)	Nm	≦ 0.8
Degree of Protection		IP20
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		
Open	°C	-25 - +70
Storage	°C	- 40 - + 80
Mounting position		As required

Mechanical shock resistance according to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	> 30
Mechanical shock resistance		g	30 Shock duration 11 ms Sinusoidal according to IEC 60068-2-27
Terminal capacities		mm²	
Solid		mm ²	0.75 - 2.5
Stranded		mm ²	0.5 - 2.5
Contacts			
Rated impulse withstand voltage	U _{imp}	VAC	6000
Rated insulation voltage	Ui	V	500 /
Overvoltage category/pollution degree			III/3
Indoor and protected outdoor installation			

Design verification as per IEC/EN 61439

besign verification as per incornit of 433			
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	1
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
EC/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 h	16		Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnorma and fire due to internal electric effects	al .		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
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 switchgear must observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must 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) / Lamp holder block for control circuit devices (EC000204)

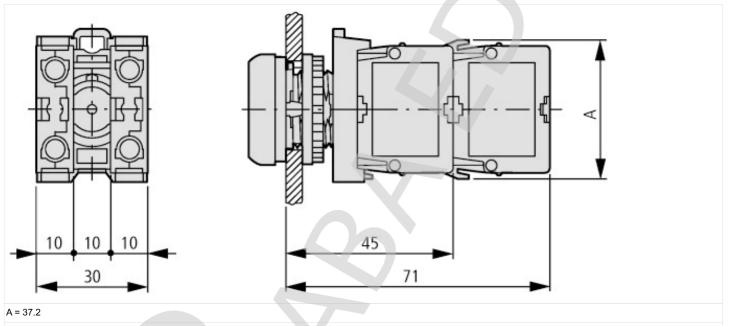
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Bulb socket block for command and alarm devices (ecl@ss10.0.1-27-37-12-09 [AKF027014])

Transformer integrated			No
With integrated voltage decreasing resistor			No
With light source			Yes
With integrated diode			Yes
Lamp holder			None
Rated voltage Ue at AC 50 Hz	\	V	85 - 264
Rated voltage Ue at AC 60 Hz	\	V	85 - 264
Rated voltage Ue at DC	\	V	0 - 0
Voltage type for actuating			AC
Lamp type			LED
Connection type auxiliary circuit			Screw connection
Colour lamp			Blue
Type of fastening			Front fastening

Approvals

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Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	UL/CSA Type: -

Dimensions



Pushbutton with M22-(C)K... Pushbutton with M22-(C) LED... + M22-XLED...