DATASHEET - Q25LT-X



Illuminated pushbutton actuator, without button plate, momentary



Part no. Q25LT-X Catalog No. 051746 Alternate Catalog Q25LT-X

No

Delivery program

Product range	RMQ16
Basic function	Illuminated pushbutton actuators
Single unit/Complete unit	Single unit
Design	Flat
	momentary
Description	without light elements With base, W2x4,6d; max. 30 V, 1 W
Degree of Protection	IP65
Connection to SmartWire-DT	no
Front dimensions	25 x 25

IEC/EN 60947

Technical data

General Standards

Operations frequency Operations frequency Operations frequency Operations force Obagree of protection, IEC/EN 60529 Climatic proofing Climatic proofing Open Ambient temperature Open Open Enclosed Open Mechanical shock resistance Open Open Open Open Open Open Open Ope				
Actuating force Degree of protection, IEC/EN 60529 Climatic proofing Climatic proofi	Lifespan, mechanical	Operations	x 10 ⁶	>3
Degree of protection, IEC/EN 60529 Climatic proofing Ambient temperature Open	Operating frequency	Operations/h		≦ 1800
Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Ambient temperature Open Enclosed Rounting position Mechanical shock resistance Blade terminal Fast-on connectors Contacts Rated impulse withstand voltage Overvoltage category/pollution degree Rated operational voltage Overvoltage category/pollution degree Rated operational voltage At 24 V DC/5 mA At 5 Required Damp heat, constant, to IEC 60068-2-30 **C	Actuating force		n	≦ 4
Ambient temperature Open Enclosed Mounting position Mechanical shock resistance Blade terminal Fast-on connectors Contacts Rated impulse withstand voltage Rated impulse withstand voltage Rovervoltage category/pollution degree Rated operational voltage Control circuit reliability at 24 V DC/5 mA at 5 V DC/5 mA Wend many service of the substand voltage Wend many service of mounts of the substand voltage Wend many service of mounts of the substand voltage Wend many service of mounts of the substand voltage Wend many service of the substand voltage of the substand voltage of the substand voltage Wend many service of the substand voltage of the substand vol	Degree of protection, IEC/EN 60529			IP65
Open Enclosed ***C	Climatic proofing			
Enclosed Mounting position Mechanical shock resistance Mechanical shock resistance Blade terminal Fast-on connectors Contacts Rated impulse withstand voltage Rated operational voltage Overvoltage category/pollution degree Rated operational voltage Overvoltage category/pollution degree Rated operational voltage As required As re	Ambient temperature			
Mounting position Mechanical shock resistance	Open		°C	-25 - +60
Mechanical shock resistance g > 40 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal 2.8 x 0.8 mm to DIN 46244 2.8 x 0.8 mm to DIN 46247 and IEC 60760 Contacts Rated impulse withstand voltage Uimp V AC 800 Rated insulation voltage Ui V 250 Overvoltage category/pollution degree Rated operational voltage Ue V AC 24 Control circuit reliability at 24 V DC/5 mA HF Fault robability at 5 V DC/1 mA HF Fault robability V AC 15 failure in 5 x 10 ⁶ operations Separations S	Enclosed		°C	- 25 - 40
according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal East-on connectors 2.8 x 0.8 mm to DIN 46244 2.8 x 0.8 mm to DIN 46247 and IEC 60760 Contacts Rated impulse withstand voltage Vimp V AC 800 Rated insulation voltage Ui V 250 Overvoltage category/pollution degree Rated operational voltage Ue V AC 24 Control circuit reliability at 24 V DC/5 mA HF Fault probability 4 to 7, < 1 faults in 107 switch operations at 5 V DC/1 mA HF Fault probability 5 x 10-6, < 1 failure in 5 x 106 operations >24 V AC/DC recommended	Mounting position			As required
Fast-on connectors 2.8 x 0.8 mm to DIN 46247 and IEC 60760 Contacts Rated impulse withstand voltage Uimp V AC 800 Rated insulation voltage Uil/3 Rated operational voltage Ue V AC 24 Control circuit reliability at 24 V DC/5 mA HF Fault probability The standard operations The standard	Mechanical shock resistance		g	according to IEC 60068-2-27 Shock duration 11 ms
Contacts Rated impulse withstand voltage Uimp V AC 800 Rated insulation voltage Ui V 250 Overvoltage category/pollution degree III/3 Rated operational voltage Ue V AC Control circuit reliability at 24 V DC/5 mA HF Fault probability At 5 V DC/1 mA HF Fault so 10-7, < 1 faults in 10-7 switch operations Fault probability 25 V DC/1 mA HF Fault so 10-6, < 1 failure in 5 x 10-6 operations 24 V AC/DC recommended	Blade terminal			2.8 x 0.8 mm to DIN 46244
Rated inpulse withstand voltage Ui V AC 800 Rated insulation voltage Ui V 250 Overvoltage category/pollution degree III/3 Rated operational voltage Ue V AC 24 Control circuit reliability at 24 V DC/5 mA HF Fault probability Fault so 10-7, < 1 faults in 10 ⁷ switch operations Probability Fault so 10-6, < 1 failure in 5 x 10 ⁶ operations 24 V AC/DC recommended	Fast-on connectors			2.8 x 0.8 mm to DIN 46247 and IEC 60760
Rated insulation voltage Overvoltage category/pollution degree Rated operational voltage Ue V AC 24 Control circuit reliability at 24 V DC/5 mA HF Fault probability Fault so To	Contacts			
Overvoltage category/pollution degree Rated operational voltage Ue V AC 24 Control circuit reliability at 24 V DC/5 mA HF Fault probability Fault probability Fault probability 5 x 10 ⁻⁶ , < 1 failure in 5 x 10 ⁶ operations 24 V AC/DC recommended	Rated impulse withstand voltage	U_{imp}	V AC	800
Rated operational voltage Ue VAC 24 Control circuit reliability at 24 V DC/5 mA HF Fault probability HF Fault probability 5 x 10 ⁻⁶ , < 1 failure in 5 x 10 ⁶ operations 24 V AC/DC recommended	Rated insulation voltage	Ui	V	250
Control circuit reliability at 24 V DC/5 mA HF Fault roof, < 1 faults in 10 ⁷ switch operations probability At 5 V DC/1 mA HF Fault roof, < 1 failure in 5 x 10 ⁶ operations probability 24 V AC/DC recommended	Overvoltage category/pollution degree			III/3
at 24 V DC/5 mA HF Fault probability The second of the s	Rated operational voltage	U _e	V AC	24
at 5 V DC/1 mA H _F Fault probability 45 x 10 ⁻⁶ , < 1 failure in 5 x 10 ⁶ operations probability Use of insulated ferrule ISH 2,8 >24 V AC/DC recommended	Control circuit reliability			
Use of insulated ferrule ISH 2,8 >24 V AC/DC recommended	at 24 V DC/5 mA	H _F		< 10 ⁻⁷ , < 1 faults in 10 ⁷ switch operations
	at 5 V DC/1 mA	H _F		$< 5 \times 10^{-6}$, < 1 failure in 5×10^{6} operations by
	Use of insulated ferrule ISH 2,8			

Design verification as per IEC/EN 61439

·			
echnical 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

Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
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			Not applicable.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:specification}$
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
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) / Front element for push button (EC000221)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (eci@ss10.0.1-27-37-12-10 [AKF028014])

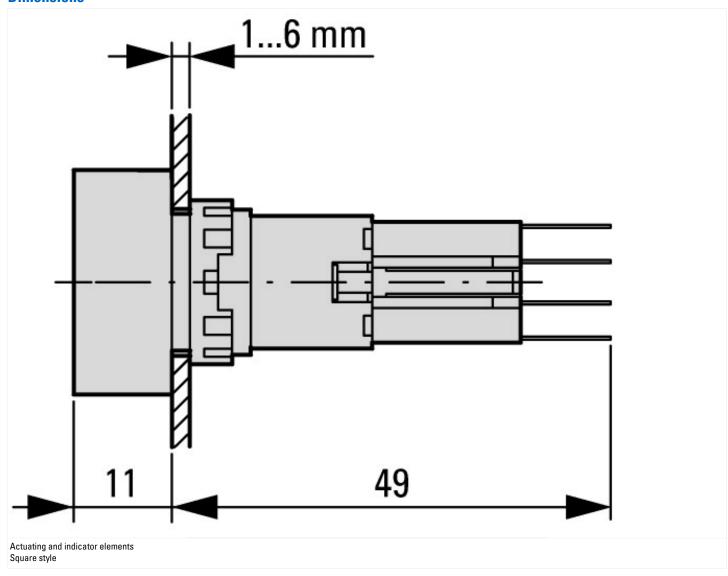
(et)@5510.0.1-27-57-12-10 [AKF020014])		
Colour button		Without button plate
Number of command positions		1
Construction type lens		Square
Hole diameter	mm	16
Width opening	mm	0
Height opening	mm	0
Type of button		Flat
Suitable for illumination		Yes
With protective cover		No
Labelled		No
Switching function latching		No
Spring-return		Yes
With front ring		Yes
Material front ring		Plastic
Colour front ring		Black
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		1

Approvals

Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184

UL Category Control No.	NKCR
CSA File No.	46552
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	UL/CSA Type 1

Dimensions



Assets (links)

Declaration of CE Conformity

00002898

Instruction Leaflets

IL04716016Z2018_05

Additional product information (links)

IL04716016Z (AWA1160-1429) Mounting of components

IL04716016Z (AWA1160-1429) Mounting of components

 $ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716016Z2018_05.pdf$