DATASHEET - 025S1R-GN



Key-operated actuator, 2 positions, green, maintained

Powering Business Worldwide*

Part no. Q25S1R-GN Catalog No. 062108 Alternate Catalog Q25S1R-GN No.

Additional individual lock mechanisms (each colour corresponds with a separate lock mechanism)

Delivery program

Product range	RMQ16
Basic function	Key-operated buttons
Single unit/Complete unit	Single unit
Design	Key operated
	maintained
Function:	
	₽ 45°
	2 positions
Key withdrawable in position	
	I
	0
Degree of Protection	IP65
Front ring	without bezel
Connection to SmartWire-DT	no
Front dimensions	Front dimensions 25 × 25 mm
Information about equipment supplied	With 1 key
Ordering information	For each color there is a corresponding key, \rightarrow accessories,
Notes	

Technical data

General

Lifespan, mechanical Operations x 106 > 3 Operations frequency Possible frequency Operations frequency Possible frequency Operations from Science Frequency Possible fr	General			
Operating frequency Operating frequency Operating frequency Operating torque Degree of protection, IEC/EN 60529 Climatic proofing Open Open Open Open Open Open Open Open	Standards			IEC/EN 60947
Degree of protection, IEC/EN 60529 Climatic proofing Ambient temperature Open Copen Cope	Lifespan, mechanical	Operations	x 10 ⁶	>3
Degree of protection, IEC/EN 60529 Climatic proofing Ambient temperature Open °C -25 -460 Enclosed °C -25 -40 Mounting position Mechanical shock resistance Terminal capacities Blade terminal Fast-on connectors Contacts Rated insulation voltage Rated operational voltage Ouen of protection, IEC/EN 60529 IP65 Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 As required Contacts IP65 Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 As required 2 40 according to IEC 80068-2-27 Shock duration 11 ms Sinusoidal Terminal Capacities Mm² 0.5 - 1.0 2.8 × 0.8 mm to DIN 46244 2.8 × 0.8 mm to DIN 46247 and IEC 60760 Contacts Rated insulation voltage U _{timp} V AC Overvoltage category/pollution degree Rated operational voltage U _{tim} V AC Vac Vac Vac Vac Vac Vac Vac Va	Operating frequency	Operations/h		≦ 1800
Climatic proofing Ambient temperature Open °C -25 - 460 Enclosed °C -25 - 40 Mounting position Mechanical shock resistance Itempinal capacities Blade terminal Fast-on connectors Contacts Rated inpulse withstand voltage Rated ansulation voltage Rated operational voltage Rated op	Operating torque		Nm	≦ 0.4
Damp heat, cyclic, to IEC 60068-2-30 Ambient temperature Open CC -25 - +60 Enclosed Mounting position Mechanical shock resistance Mechanical shock resistance Terminal capacities Blade terminal Fast-on connectors Contacts Rated impulse withstand voltage Rated ansulation voltage Rated operational voltage Rated operational voltage Rated operational voltage Rated operational voltage Rated perational voltage Rated operational voltage Ve W AC Past-on connectors Damp heat, cyclic, to IEC 60068-2-30 -25 - +60 As required As required As required O.5 - 1.0 -	Degree of protection, IEC/EN 60529			IP65
Open °C -25 - +60 Enclosed °C -25 - 40 Mounting position As required Mechanical shock resistance g > 40 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal Shock duration 11 ms Sinusoidal Terminal capacities mm² 0.5 - 1.0 Blade terminal 2.8 x 0.8 mm to DIN 46244 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 Uimp V AC 800 Overvoltage category/pollution degree III/3 III/3 Rated operational voltage Ue V AC 24	Climatic proofing			
Enclosed Mounting position Mechanical shock resistance Mechanical shock designed shock desig	Ambient temperature			
Mounting position Mechanical shock resistance g > 40 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal Terminal capacities mm² 0.5 - 1.0 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 Nated impulse withstand voltage Nated insulation voltage Vin V 250 Overvoltage category/pollution degree Rated operational voltage Vie V AC 24	Open		°C	-25 - +60
Mechanical shock resistance g > 40 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal Terminal capacities mm² 0.5 - 1.0 Blade terminal Fast-on connectors 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	Enclosed		°C	- 25 - 40
according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal Terminal capacities mm² 0.5 - 1.0 2.8 x 0.8 mm to DIN 46244 2.8 x 0.8 mm to DIN 46247 and IEC 60760 Contacts Rated inpulse withstand voltage Rated insulation voltage Ui V AC 0vervoltage category/pollution degree Rated operational voltage Ue V AC 24	Mounting position			As required
Blade terminal 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 Y 250 Overvoltage category/pollution degree Rated operational voltage Ue V AC 24	Mechanical shock resistance		g	according to IEC 60068-2-27 Shock duration 11 ms
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 Ui V 250 Overvoltage category/pollution degree Rated operational voltage Ue V AC 24	Terminal capacities		mm^2	0.5 - 1.0
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	Blade terminal			2.8 x 0.8 mm to DIN 46244
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	Fast-on connectors			2.8 x 0.8 mm to DIN 46247 and IEC 60760
Rated insulation voltage Ui V 250 Overvoltage category/pollution degree III/3 Rated operational voltage Ue V AC 24	Contacts			
Overvoltage category/pollution degree III/3 Rated operational voltage U _e V AC 24	Rated impulse withstand voltage	U_{imp}	V AC	800
Rated operational voltage U _e V AC 24	Rated insulation voltage	Ui	V	250
	Overvoltage category/pollution degree			III/3
Control circuit reliability	Rated operational voltage	U _e	V AC	24
	Control circuit reliability			

at 24 V DC/5 mA	H _F	Fault probability	$< 10^{-7}, < 1$ failure in 10^7 operations
at 5 V DC/1 mA	H _F	Fault probabilit	$< 5 \times 10^{-6}$, < 1 failure in 5×10^{6} operations
Use of insulated ferrule ISH 2,8			On >24 V AC/DC recommended On >50 V AC or 120 V DC mandatory, also on unoccupied blade terminals

Design verification as per IEC/EN 61439

Design verincation as per illo/liv 01453			
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
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 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 7.0

Low-voltage industrial components (EG000017) / Front element for selector switch (EC000222)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for selector switches (ecl@ss10.0.1-27-37-12-13 [AKF031014])

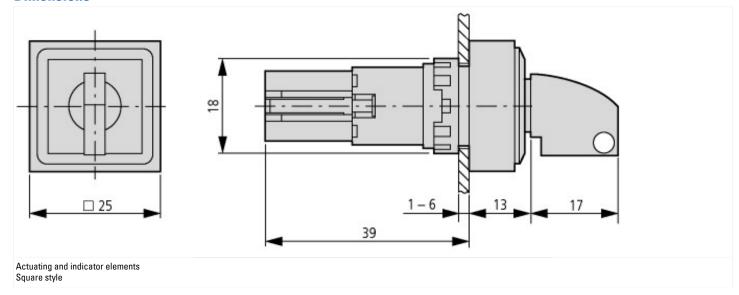
[AKFU31U14])			
Number of switch positions			2
Type of control element			Key
Suitable for illumination			No
Colour control element			Green
Colour indicator light cap			Other
Construction type lens			Square
Hole diameter	mr	m	16
Width opening	mr	m	0
Height opening	mr	m	0

Switching function latching	Yes
Spring-return	No
With front ring	Yes
Material front ring	Plastic
Colour front ring	Black
Degree of protection (IP), front side	IP65
Degree of protection (NEMA)	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