DATASHEET - QSA250N-2/3



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Fuse switch-disconnector, 3 pole, rear mounting, 250 A, NH1/NH2

Part no. Catalog No.

QSA250N-2/3 1318526



Delivery program			
Product range			Fuse-switch-disconnector Main switch maintenance switch
Part group reference			QSA
top Function			optional
lotes			Suitable for DIN fuse-links (blade contacts type)
nformation about equipment supplied			Auxiliary contact or neutral conductor fitted by user.
lumber of poles			3 pole
Auxiliary contacts			
4		N/0	0
7		N/C	0
Degree of Protection			IP00 IP20 with terminal cover
lesign			rear mounting
Contact sequence			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
lated uninterrupted current	Iu	А	250
			Rated uninterrupted current I_u is specified for max. cross-section.
lote on rated uninterrupted current ! _u			

Technical data General

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3
Certifications			CE, RoHs
Ambient temperature			
Operation	9	°C	-25 - +55
Storage	9	°C	-30 - +80
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U _{imp}	kV	6
Rated insulation voltage	Ui	V	690
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			3 pole

Auxiliary contacts			
		N/0	0
		N/C	0
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	lu	А	250
Note on rated uninterrupted current $\boldsymbol{!}_{u}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Heat dissipation per pole, current-dependent	P _{vid}	W	12

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	250
Heat dissipation per pole, current-dependent	P _{vid}	W	12
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	55
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			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 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) / Fuse switch disconnector (EC001040)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Fuse switch disconnector (ecl@ss10.0.1-27-37-14-01 [AKF058013])			
Version as main switch		Yes	
Version as safety switch		No	
Max. rated operation voltage Ue AC	V	690	
Rated permanent current lu	А	250	
Rated operation power at AC-23, 400 V	kW	147	

Rated short-time withstand current lcw KA 0 Suitable for fuses NIN, NH2 Number of poles 3 With error protection No Type of electrical connection of main circuit Serew connection Cable entry Cher Equipped with connectors Verter Suitable for ground mounting Verter Suitable for front mounting 4-hole No Suitable for dround neuting Verter Suitable for ground mounting No Suitable for ground mounting Verter Suitable for ground mounting No Suitable for ground mounting No Suitable for drounting 4-hole No Suitable for ground mounting No Suitable for drounting No Suitable for drounting No Suitable for drounting No Suitable for drounting No Motor drive optional No Motor drive optional No Motor drive integrated No Wersion as emergency stop installation No </th <th></th> <th></th> <th></th>			
Suitable for fuses H1, NH2 Number of poles 3 With error protection No Type of electrical connection of main circuit Screw connection Cable entry Other Equipped with connectors Vers Suitable for ground mounting No Suitable for ground mounting 4-hole No Suitable for husbar mounting No Suitable for dront nearting No Suitable for ground mounting No Suitable for tront neunting No <	Conditioned rated short-circuit current Iq	kA	50
Number of poles 3 With error protection No Type of electrical connection of main circuit Screw connection Cable entry Cher Equipped with connectors Yes Suitable for ground mounting 4-hole Yes Suitable for hot mounting 4-hole No Suitable for busbar mounting No Suitable for statement No Postion control element No Postion control element Fort side Motor drive optional No Motor drive integrated No Wotor drive integrated No	Rated short-time withstand current Icw	kA	0
With error protectionNoType of electrical connection of main circuitSerw connectionCable entryOtherEquipped with connectorsYesSuitable for ground mounting 4-holeNoSuitable for front mounting 4-holeNoSuitable for ground mountingNoSuitable for ground mountingNoSuitable for ground mounting 4-holeNoSuitable for ground	Suitable for fuses		NH1, NH2
Type of electrical connection of main circuit Calle Screw connection Cable entry Other Dther Equipped with connectors Yes Suitable for ground mounting 4-hole Yes Suitable for front mounting 4-hole Yes No Suitable for busbar mounting Suitable for busbar mounting Yes No Suitable for ground mounting Suitable for busbar mounting 4-hole Yes No Suitable for ground mounting Suitable for busbar mounting Yes No Suitable for ground mounting Suitable for busbar mounting Yes No Suitable for ground mounting Suitable for busbar mounting Yes Suitable for ground mounting No Type of control element Yes Suitable for ground mounting Sui	Number of poles		3
Cable entry Che Equipped with connectors Yes Suitable for ground mounting Yes Suitable for front mounting 4-hole No Suitable for busbar mounting Yes Type of control element Yes Position control element Yes Motor drive optional Yes Motor drive integrated Yes Wotor drive integrated Yes Wotor drive stop installation Yes Wotor drive integrated Yes	With error protection		No
Equipped with connectors Yes Suitable for ground mounting Yes Suitable for front mounting 4-hole No Suitable for busbar mounting Yes Type of control element No Position control element Other Motor drive optional Yes Motor drive integrated Yes Wes No Wes No Motor drive integrated Yes Wes No Wes No Motor drive integrated Yes Wes No Wes No	Type of electrical connection of main circuit		Screw connection
Suitable for ground mounting Image: Suitable for ground mounting 4-hole Yes Suitable for front mounting 4-hole Image: Suitable for busbar mounting No Suitable for busbar mounting Image: Suitable for busbar mounting No Type of control element Image: Suitable for busbar mounting No Position control element Image: Suitable for busbar mounting No Motor drive optional Image: Suitable for busbar mounting No Motor drive integrated Image: Suitable for busbar mounting No Motor drive integrated Image: Suitable for busbar mounting No	Cable entry		Other
Suitable for front mounting 4-hole No Suitable for busbar mounting No Type of control element Other Position control element Front side Motor drive optional No Motor drive integrated Mo Version as emergency stop installation Image: State Stat	Equipped with connectors		Yes
Suitable for busbar mounting No Type of control element Other Position control element Front side Motor drive optional No Motor drive integrated Image: Control model Wersion as emergency stop installation Image: Control model	Suitable for ground mounting		Yes
Type of control element Other Position control element Front side Motor drive optional No Motor drive integrated No Version as emergency stop installation Image: Stap Stap Stap Stap Stap Stap Stap Stap	Suitable for front mounting 4-hole		No
Position control element Image: Control element Motor drive optional Image: Control element Motor drive integrated Image: Control element Version as emergency stop installation Image: Control element	Suitable for busbar mounting		No
Motor drive optional No Motor drive integrated No Version as emergency stop installation Image: Comparison of Comp	Type of control element		Other
Motor drive integrated No Version as emergency stop installation No	Position control element		Front side
Version as emergency stop installation No	Motor drive optional		No
	Motor drive integrated		No
Degree of protection (IP), front side IP00	Version as emergency stop installation		No
	Degree of protection (IP), front side		IP00

Dimensions

