DATASHEET - QSA400N-2/3



Fuse switch-disconnector, 3 pole, rear mounting, 400 A, NH1/NH2 $\,$

Powering Business Worldwide*

Part no. QSA400N-2/3 Catalog No. 1318533

Delivery program			
Product range			Fuse-switch-disconnector Main switch maintenance switch
Part group reference			QSA
Stop Function			optional
Notes			Suitable for DIN fuse-links (blade contacts type)
Information about equipment supplied			Auxiliary contact or neutral conductor fitted by user.
Number of poles			3 pole
Auxiliary contacts			
		N/0	0
7		N/C	0
Degree of Protection			IP00 IP20 with terminal cover
Design			rear mounting
Contact sequence			L1 L2 L3 $ \frac{1}{1} \frac{1}{3} \frac{1}{5} $ $ \frac{7}{2} \frac{4}{4} \frac{6}{6} $ T1 T2 T3 $ \frac{1}{2} \frac$
Rated uninterrupted current	l _u	Α	400
Note on rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section. In ventilated enclosure.
Fuse cartridge		Size	NH1/NH2

Technical data

General

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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	θ	°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	Iu	Α	400
Note on rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section. In ventilated enclosure.
Heat dissipation per pole, current-dependent	P _{vid}	W	28

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	400
Heat dissipation per pole, current-dependent	P _{vid}	W	28
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 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. $\label{eq:specifications}$
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])

(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 A 400 Rated operation power at AC-23, 400 V kW 220 Conditioned rated short-circuit current lq kA 50 Rated short-time withstand current lcw kM 0 Suitable for fuses NH1, NH2 Number of poles 3 NH1, NH2 With error protection No Screw connection Type of electrical connection of main circuit Coble entry Other Equipped with connectors Yes Yes Suitable for ground mounting Yes No Suitable for front mounting 4-hole No No Suitable for bushar mounting Yes No Type of control element No No Position control element Pront side Front side Motor drive optional No No Motor drive integrated No No Version as emergency stop installation No No Degree of protection (IP), front side No No			
Conditioned rated short-time withstand current lq kA 50 Rated short-time withstand current lcw kA 0 Suitable for fuses NH1, NH2 Number of poles S 3 With error protection No No Type of electrical connection of main circuit Screw connection Cable entry Other Equipped with connectors Yes Suitable for ground mounting Yes Suitable for front mounting 4-hole No Suitable for busbar mounting No Suitable for busbar mounting Image: Screw connection Type of control element No Position control element Image: Screw connection Motor drive optional Image: Screw connection Motor drive optional Image: Screw connection Motor drive integrated No No Motor drive integrated Image: Screw connection No No No No No No No No No No No No No No No No No No	Rated permanent current lu	А	400
Rated short-time withstand current Icw Suitable for fuses Number of poles With error protection Type of electrical connection of main circuit Cable entry Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for font mounting 4-hole Suitable for font mounting Suitable for front mounting Suitable for front mounting Suitable for front mounting Who Suitable for front mounting Suitable for substar mounting Suitable for lusbar mounting No Suitable for fustar mounting No Suitable for substar mounting No Suitable for fustar mounting No Motor drive optional Motor drive integrated Vesion as emergency stop installation	Rated operation power at AC-23, 400 V	kW	220
Suitable for fuses Number of poles Number of poles With error protection Type of electrical connection of main circuit Cable entry Equipped with connectors Suitable for ground mounting Suitable for ground mounting Suitable for front mounting 4-hole Suitable for font mounting 4-hole Suitable for busbar mounting Type of control element Position control element Motor drive optional Motor drive integrated Vesion as emergency stop installation	Conditioned rated short-circuit current Iq	kA	50
Number of poles With error protection No Type of electrical connection of main circuit Cable entry Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for bushar mounting Type of control element Position control element Motor drive optional Motor drive integrated Ves No Suitable for ground mounting No Suitable for bushar mounting No Suitable for bushar mounting No No No No No No No No No N	Rated short-time withstand current lcw	kA	0
With error protection Type of electrical connection of main circuit Cable entry Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for busbar mounting Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation	Suitable for fuses		NH1, NH2
Type of electrical connection of main circuit Cable entry Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for busbar mounting Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Screw connection Screw connection Screw connection Screw connection Screw connection Screw connection Other Yes No No Other Front side No	Number of poles		3
Cable entry Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for busbar mounting Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Other Other Other Front side No	With error protection		No
Equipped with connectors Suitable for ground mounting Suitable for front mounting 4-hole Suitable for busbar mounting Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Yes Yes No No Other Front side No No No No No No No No No N	Type of electrical connection of main circuit		Screw connection
Suitable for ground mounting Suitable for front mounting 4-hole Suitable for busbar mounting Suitable for ground mounting Suitable f	Cable entry		Other
Suitable for front mounting 4-holeNoSuitable for busbar mountingNoType of control elementOtherPosition control elementFront sideMotor drive optionalNoMotor drive integratedNoVersion as emergency stop installationNo	Equipped with connectors		Yes
Suitable for busbar mountingNoType of control elementOtherPosition control elementFront sideMotor drive optionalNoMotor drive integratedNoVersion as emergency stop installationNo	Suitable for ground mounting		Yes
Type of control element Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Other Front side No No No No No No No No No N	Suitable for front mounting 4-hole		No
Position control element Motor drive optional Motor drive integrated Version as emergency stop installation Front side No No No No No No No No No N	Suitable for busbar mounting		No
Motor drive optional No Motor drive integrated No Version as emergency stop installation No	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

