

Part no. **QSA160N1-00/3**  
**1318033**

<b>General specifications</b>		
Product name		Eaton QSA Fuse Switch-disconnector
Part no.		QSA160N1-00/3
EAN		8711426812772
Product Length/Depth		242 millimetre
Product height		205 millimetre
Product width		167 millimetre
Product weight		2 kilogram
Certifications		IEC/EN 60204 IEC/EN 60947-3 RoHS IEC/EN 60947 VDE 0660 CE
Product Tradename		QSA
Product Type		Fuse Switch-disconnector
Product Sub Type		None
<b>Features &amp; Functions</b>		
Features		Version as main switch
Fitted with:		Connectors
Functions		Optional Stop Function
Number of poles		Three-pole
<b>General information</b>		
Accessories		Auxiliary contact or neutral conductor fitted by user.
Actuator type		Without actuator
Construction size		NH00
Degree of protection		IP20, with terminal cover IP00
Degree of protection (front side)		IP00
Mounting method		Rear mounting
Mounting position		As required
Overvoltage category		III
Pollution degree		3
Product category		Fuse-switch-disconnector Main switch
Rated impulse withstand voltage (Uimp)		6000 V
Suitable for		Ground mounting DIN fuse-links (blade contacts type)
<b>Climatic environmental conditions</b>		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		55 °C
Ambient storage temperature - min		-30 °C
Ambient storage temperature - max		80 °C
Operating temperature - min		-25 °C
Operating temperature - max		55 °C
<b>Electrical rating</b>		
Rated insulation voltage (Ui)		690 V
Rated operating voltage (Ue) at AC - max		690 V
Rated operational power at AC-23A, 400 V, 50 Hz		90 kW
Rated short-time withstand current (Icw)		0 kA
Rated uninterrupted current (Iu)		160 A

Uninterrupted current		Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
<b>Contacts</b>		
Number of auxiliary contacts (normally closed contacts)		0
Number of auxiliary contacts (normally open contacts)		0
<b>Design verification</b>		
Equipment heat dissipation, current-dependent P <sub>vid</sub>		0 W
Heat dissipation capacity P <sub>diss</sub>		0 W
Heat dissipation per pole, current-dependent P <sub>vid</sub>		10 W
Rated operational current for specified heat dissipation (I <sub>n</sub> )		160 A
Static heat dissipation, non-current-dependent P <sub>vs</sub>		0 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0

Low-voltage industrial components (EG000017) / Fuse switch disconnecter (EC001040)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Fuse switch disconnecter (ecl@ss13-27-37-14-01 [AKF058018])		
Version as main switch		Yes
Version as safety switch		No
Max. rated operation voltage U <sub>e</sub> AC	V	690
Rated permanent current I <sub>u</sub>	A	160
Rated operation power at AC-23, 400 V	kW	90
Conditioned rated short-circuit current I <sub>q</sub>	kA	50
Rated short-time withstand current I <sub>cw</sub>	kA	0
Suitable for fuses		NH00
Number of poles		3
With error protection		No
Type of electrical connection of main circuit		Bolt connection
Cable entry		Top/bottom
Equipped with connectors		Yes
Suitable for floor mounting		Yes
Suitable for front mounting		No
Suitable for busbar mounting		No
Type of control element		Without actuator

Position control element			Front side
Motor drive optional			No
Motor drive integrated			No
Version as emergency stop installation			No
Degree of protection (IP), front side			IP00