## **SIEMENS**

## Data sheet

## 3VA2140-7KQ32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3POLE, LINE PROTECTION ETU860, LSIG, IN=40A OVERLOAD PROTECTION IR=16A ...40A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS BUSBAR CONNECTION

Model		
product brand name		SENTRON
Product designation	_	Molded case circuit breaker
Design of the product	_	Line protection
Product variations	_	Selective Applications
Ground fault monitoring version		Summation current formation L-conductor
Design of the auxiliary release		without auxiliaryrelease
Design of the auxiliary switch		Without
Design of the operating mechanism		toggle handle
Type of the driving mechanism / motor drive		No
Design of the overcurrent release	_	ETU860
General technical data		
Number of poles		3
Trip class / of the L-trip / with I2t characteristic / initial value	_	0.5
Trip class / of the L-trip / with I2t characteristic / Full- scale value	_	25
Electrical endurance (switching cycles)	-	
• at AC-1 / at 380/415 V / at 50/60 Hz		12 000
Total disconnection time / for G-tripping / with standard characteristic / initial value	S	0.05
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0.8
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		20 000

Insulation voltage / Rated value     V     800       Protection class IP / on the front     IP40       Protection class IP / on the front     IP40       Protection class IP / on the front     IP40       Protection class IP / on the overcurrent release     LSIG       Switching capacity     Switching capacity       Switching capacity     C       Dissipation     Adive power los       • maximum     W       Continuous current / Rated value / maximum     A       Continuous current / Rated value / maximum     A       Continuous current / Rated value / maximum     A       Adjustable response value current / of the instantaneous short-circuit release / initial value     A       Main circuit     Operating voltage     V       Operating current     4     1.5       • at 40 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated	Voltage		
Protection class IP       IP40         Protection class IP on the front       IP40         Protective function of the overcurrent release       LSIG         Switching capacity       Switching capacity         Switching capacity class of the circuit breaker       C         Dissipation       Active power loss         • maximum       W         Electricity       Continuous current / Rated value / maximum         Continuous current / Rated value       A         Adjustable response value current / of the instantaneous short-circuit release / initial value       A         Operating voltage       e with AC / at 50/60 Hz / Rated value       V         Operating voltage       a 40         • with AC / at 50/60 Hz / Rated value       A 40         • at 60 °C / Rated value       A 40         • at 60 °C / Rated value       A 40         • at 60 °C / Rated value       A 40         • at 60 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • Adjustable para		V	800
Protection class IP       IP40         Protection class IP on the front       IP40         Protective function of the overcurrent release       LSIG         Switching capacity       Switching capacity         Switching capacity class of the circuit breaker       C         Dissipation       Active power loss         • maximum       W         Electricity       Continuous current / Rated value / maximum         Continuous current / Rated value       A         Adjustable response value current / of the instantaneous short-circuit release / initial value       A         Operating voltage       e with AC / at 50/60 Hz / Rated value       V         Operating voltage       a 40         • with AC / at 50/60 Hz / Rated value       A 40         • at 60 °C / Rated value       A 40         • at 60 °C / Rated value       A 40         • at 60 °C / Rated value       A 40         • at 60 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • at 70 °C / Rated value       A 40         • Adjustable para	Ducto diana da an		
Protection class IP / on the front       IP40         Protective function of the overcurrent release       LSIG         Switching capacity       C         Switching capacity class of the circuit breaker       C         Dissipation       C         Adive power loss       •         • maximum       W         1.6       Continuous current / Rated value / maximum         Continuous current / Rated value / maximum       A         Continuous current / Rated value       A         Adjustable response value current / of the instantaneous short-circuit release / initial value       A         Main circuit       Operating voltage       •         • with AC / at 50/60 Hz / Rated value       V       690         Operating voltage       •       with AC / at 50/60 Hz / Rated value         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40 </td <td></td> <td>-</td> <td>IP40</td>		-	IP40
Protective function of the overcurrent release       LSIG         Switching capacity       C         Dissipation       C         Active power loss       w         • maximum       W         Electricity       Continuous current / Rated value / maximum         Continuous current / Rated value       A         Adjustable response value current / of the instantaneous short-circuit release / initial value       A         Main circuit       Operating voltage         • with AC / at 50/60 Hz / Rated value       V         Operating voltage       event         • at 40 °C / Rated value       A         • at 60 °C / Rated value       A         • at 65 °C / Rated value       A         • at 70 °C / Rated value       A         • at 70 °C / Rated value       A         Suitability       for use         Suitability       for use         Adjustable parameters       A         Adjustable parameters       A         Adjustable response value curre			
Switching capacity       Switching capacity class of the circuit breaker     C       Dissipation     Active power loss     waximum       Active power loss     • maximum     W     1.6       Electricity     Continuous current / Rated value / maximum     A     160       Continuous current / Rated value / maximum     A     40       Adjustable response value current / of the instantaneous short-circuit release / initial value     A     40       Main circuit     Operating outrant     690     Operating outrant       • with AC / at 50/60 Hz / Rated value     V     690     690       Operating outrant     •     40     40       • at 40 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 70 °C / Rated value     A     40       • Suitability     Suitability for use     system protection       Adjustable response value current     • for G-tripping / with 12t characteristic / initial value     A <td></td> <td></td> <td></td>			
Switching capacity class of the circuit breaker     C       Dissipation       Active power loss     • maximum       • maximum     W       1.6       Electricity       Continuous current / Rated value / maximum     A       Adjustable response value current / of the instantaneous short-circuit release / initial value     A       Main circuit     Operating current       Operating current     A       • with AC / at 50/60 Hz / Rated value     V       690     Operating current       • at 40 °C / Rated value     A       • at 50 °C / Rated value     A       • at 60 °C / Rated value     A       • at 70 °C / Rated value     A       • at 70 °C / Rated value     O       • at 70 °C / Rated value     O       • for G-tripping / with 12t characteristic / initial value     O       • for G-tripping / with 21c characteristic / initial value     A       • for G-tripping / with 21c characteristic / initial value     A       • for G-tripping / with 12t characteristic / initial value     A			2010
Dissipation       Active power loss     waimum       • maximum     W       1.6       Electricity       Continuous current / Rated value     A       40       Adjustable response value current / of the instantaneous short-circuit release / initial value       Main circuit       Operating voltage       • with AC / at 50/60 Hz / Rated value       V     690       Operating voltage       • with AC / at 50/60 Hz / Rated value       V     690       Operating current       • at 40 °C / Rated value     A       • at 60 °C / Rated value     A       • at 70 °C / Rated value     A       • at 70 °C / Rated value     A       • bor Contacts / for auxiliary contacts     0       Number of NC contacts / for auxiliary contacts     0       Suitability     Suitability       Suitability     Suitability       Suitability     A       • for G-tripping / with 12t characteristic / initial value     A       • for G-tripping / with			
Active power loss     W     1.6       Electricity       Continuous current / Rated value / maximum     A     160       Continuous current / Rated value     A     40       Adjustable response value current / of the instantaneous short-circuit release / initial value     A     1.5       Main circuit     Operating voltage     V     690       Operating voltage     V     690       • with AC / at 50/60 Hz / Rated value     V     690       Operating current • at 40 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 60 °C / Rated value     A     40       • at 70 °C / Rated value     A     40       Suitability     Suitability       Suitability     Suitability       Suitability     Suitability       Suitability     A       • for G-tripping / with 12t characteristic / initial value     A     0.4       • for G-tripping / with 12t characteristic / Full-scale     A     1       • for G-tripping / with	Switching capacity class of the circuit breaker		C
• maximum       W       1.6         Electricity       A       160         Continuous current / Rated value / maximum       A       160         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       40         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Operating voltage       •       690       690         Operating current       A       40         • at 40 °C / Rated value       V       690         Operating current       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       O       0         Number of NC contacts / for auxiliary contacts       0       0         Number of NO contacts / for auxiliary contacts       0       0         Suitability       Suitability for use       system protection         Adjustable response value current       0.4       0.4       0.4         val	Dissipation		
Electricity       Continuous current / Rated value / maximum     A     160       Continuous current / Rated value     A     40       Adjustable response value current / of the instantaneous short-circuit release / initial value     A     1.5       Main circuit     Operating voltage     V     690       Operating current     at 40 °C / Rated value     V     690       • with AC / at 50/60 Hz / Rated value     V     690       Operating current     at 40 °C / Rated value     A     40       • at 60 °C / Rated value     A     40     40       • at 60 °C / Rated value     A     40     40       • at 65 °C / Rated value     A     40     40       • at 65 °C / Rated value     A     40     40       • at 65 °C / Rated value     A     40     40       • at 65 °C / Rated value     A     40     40       • at 67 °C / Rated value     A     40     40       • at 70 °C / Rated value     A     40     40       • at 67 °C / Rated value     A     40     40       • So °C / Rated value     A     40     40       • at 67 °C / Rated value     A     40     40       • Suitability     Sustability     Sustability     Sustability	Active power loss		
Continuous current / Rated value / maximum       A       160         Continuous current / Rated value       A       40         Adjustable response value current / of the       A       1.5         instantaneous short-circuit release / initial value       A       1.5         Main circuit        Operating voltage          • with AC / at 50/60 Hz / Rated value       V       690         Operating current        40         • at 40 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 00 °C / Rated value       A       40         • at 00 °C / Rated value       A       40         • Suitability       Suitability contacts / for auxillary contacts       0         Suita	• maximum	W	1.6
Continuous current / Rated value / maximum       A       160         Continuous current / Rated value       A       40         Adjustable response value current / of the       A       1.5         instantaneous short-circuit release / initial value       A       1.5         Main circuit        Operating voltage          • with AC / at 50/60 Hz / Rated value       V       690         Operating current        40         • at 40 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 00 °C / Rated value       A       40         • at 00 °C / Rated value       A       40         • Suitability       Suitability contacts / for auxillary contacts       0         Suita		_	
Continuous current / Rated value       A       40         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Coperating voltage       Image: Circuit release / initial value       Image: Circuit release / initial value         Veriating voltage       Image: Circuit release / initial value       V       690         Operating current       Image: Circuit release / initial value       V       690         Image: Circuit release / initial value       A       40         Image: Image: Circuit release / initial value       A       40         Image: Image: Circuit release / Release rele		A	160
Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Operating voltage       V       690         • with AC / at 50/60 Hz / Rated value       V       690         Operating current       A       40         • at 40 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         Auxiliary circuit       0       0         Number of NC contacts / for auxiliary contacts       0         Suitability       Suitability for use       system protection         Adjustable parameters       A       0.4         • for G-tripping / with 12t characteristic / initial value       A       1         • for G-tripping / with 12t characteristic / Full-scale value       A <td></td> <td></td> <td></td>			
Instantaneous short-circuit release / initial value       Image: State of the stat			
Operating voltage       V       690         Operating current       A       40         • at 40 °C / Rated value       A       40         • at 50 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         Auxiliary circuit       A       40         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability         Suitability for use       system protection         Adjustable parameters       4         • for G-tripping / with 12t characteristic / initial value       A         • for G-tripping / with 12t characteristic / Full-scale value       1         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with		7	1.0
Operating voltage       V       690         Operating current       A       40         • at 40 °C / Rated value       A       40         • at 50 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         Auxiliary circuit       A       40         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability         Suitability for use       system protection         Adjustable parameters       4         • for G-tripping / with 12t characteristic / initial value       A         • for G-tripping / with 12t characteristic / Full-scale value       1         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with			
• with AC / at 50/60 Hz / Rated value       V       690         Operating current       -       -         • at 40 °C / Rated value       A       40         • at 50 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • Atjusticity circuit       Number of NC contacts / for auxiliary contacts       0         Suitability       Suitability for use       system protection         Adjustable parameters       Adjustable parameters       A         • for G-tripping / with 12t characteristic / initial value       A       1         • for G-tripping /			
Operating current       A       40         • at 40 °C / Rated value       A       40         • at 50 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • Auxiliary circuit       Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0       0         Suitability       Suitability       system protection         Adjustable parameters       A       0.4         • for G-tripping / with 12t characteristic / initial value       A       1         • for G-tripping / with standard characteristic /       A       1         • for G-tripping / with standard characteristic /       A       1			200
at 40 °C / Rated value       A       40         at 50 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         Auxiliary circuit       0       Number of NC contacts / for auxiliary contacts         Number of NO contacts / for auxiliary contacts       0       0         Suitability       Suitability for use       system protection         Adjustable parameters       A       0.4         • for G-tripping / with 12t characteristic / initial value       A       0.4         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.4         • for G-tripping / with standard characteristic / A       0.4       0.4		V	690
• at 50 °C / Rated value       A       40         • at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         Auxiliary circuit       A       40         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability         Suitability       Suitability for use         Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • for G-tripping / with 12t characteristic / initial value       A       0.4         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       0.4			
• at 60 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         Auxiliary circuit       A       40         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability         Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • for G-tripping / with 12t characteristic / initial value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       1       1	• at 40 °C / Rated value		
• at 65 °C / Rated value       A       40         • at 65 °C / Rated value       A       40         • at 70 °C / Rated value       A       40         Auxiliary circuit       A       40         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       0         Suitability       system protection         Adjustable parameters       Adjustable response value current         • for G-tripping / with 12t characteristic / initial value       A       0.4         • for G-tripping / with standard characteristic / Full-scale value       A       0.4         • for G-tripping / with standard characteristic / A       0.4       0.4	• at 50 °C / Rated value	A	40
• at 70 °C / Rated value       A       40         Auxiliary circuit       0         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       0         Suitability for use       system protection         Adjustable parameters       4         Adjustable response value current       0.4         • for G-tripping / with 12t characteristic / initial value       1         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       1	<ul> <li>at 60 °C / Rated value</li> </ul>	А	40
Auxiliary circuit     0       Number of NC contacts / for auxiliary contacts     0       Number of NO contacts / for auxiliary contacts     0       Suitability     0       Suitability for use     system protection       Adjustable parameters     Adjustable response value current       • for G-tripping / with l2t characteristic / initial value     A       • for G-tripping / with l2t characteristic / Full-scale     A       • for G-tripping / with standard characteristic /     A       • for G-tripping / with standard characteristic /     A       • for G-tripping / with standard characteristic /     A	• at 65 °C / Rated value	А	40
Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       0         Suitability       system protection         Adjustable parameters       Adjustable parameters         Adjustable response value current       0.4         • for G-tripping / with l2t characteristic / initial value       0.4         • for G-tripping / with l2t characteristic / Full-scale value       1         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       1	● at 70 °C / Rated value	А	40
Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       0         Suitability       system protection         Adjustable parameters       Adjustable parameters         Adjustable response value current       0.4         • for G-tripping / with l2t characteristic / initial value       0.4         • for G-tripping / with l2t characteristic / Full-scale value       1         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       1	Auxiliary circuit		
Suitability     System protection       Adjustable parameters     system protection       Adjustable response value current     0.4       • for G-tripping / with 12t characteristic / initial value     A     0.4       • for G-tripping / with 12t characteristic / Full-scale value     A     1       • for G-tripping / with standard characteristic / Full-scale value     A     0.4			0
Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • for G-tripping / with l2t characteristic / initial value       A         • for G-tripping / with l2t characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       0.4	Number of NO contacts / for auxiliary contacts		0
Suitability for use       system protection         Adjustable parameters       Adjustable response value current         • for G-tripping / with l2t characteristic / initial value       A         • for G-tripping / with l2t characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / A       0.4         • for G-tripping / with standard characteristic / A       0.4			
Adjustable parameters         Adjustable response value current       A         • for G-tripping / with 12t characteristic / initial value       A       0.4         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.4         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / initial value       A       0.4         • for G-tripping / with standard characteristic / initial value       A       1			system protection
Adjustable response value current       A       0.4         • for G-tripping / with l2t characteristic / initial value       A       0.4         • for G-tripping / with l2t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / Full-scale value       A       0.4         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / initial value       A       0.4         • for G-tripping / with standard characteristic / initial value       A       0.4			
<ul> <li>for G-tripping / with l2t characteristic / initial value</li> <li>for G-tripping / with l2t characteristic / Full-scale value</li> <li>for G-tripping / with standard characteristic / A</li> <li>for G-tripping / with standard characteristic / A</li> <li>for G-tripping / with standard characteristic / A</li> </ul>			
value     A     1       • for G-tripping / with 12t characteristic / Full-scale value     A     1       • for G-tripping / with standard characteristic / initial value     A     0.4       • for G-tripping / with standard characteristic / initial value     A     1	•		
value • for G-tripping / with standard characteristic / A 0.4 • for G-tripping / with standard characteristic / A 1		A	0.4
<ul> <li>for G-tripping / with standard characteristic / A</li> <li>for G-tripping / with standard characteristic / A</li> <li>1</li> </ul>		А	1
for G-tripping / with standard characteristic / A 1	• for G-tripping / with standard characteristic /	A	0.4
	• for G-tripping / with standard characteristic / Full-scale value	А	1

А	12
A	0.6
A	10
A	0.6
A	10
S	0.05
S	0.8
S	0.05
S	0.5
S	0.05
	0.5
S	0.5
s A	0.4
	0.4
	0.4 No
	0.4 No Yes
	0.4 No Yes
	0.4 No Yes No
	0.4 No Yes No Yes
	0.4 No Yes No Yes Yes
	A A A A s s s s

Accessories

Manufacturer article number / of the supplied basic switch

Short circuit			
Operational short-circuit current breaking capacity			
(Ics)			
• at 240 V / Rated value	kA	150	
• at 415 V / Rated value	kA	110	
• at 440 V / Rated value	kA	110	
• at 500 V / Rated value	kA	85	
• at 690 V / Rated value	kA	2.5	
Maximum short-circuit current breaking capacity (Icu)			
• at 240 V / Rated value	kA	150	
• at 415 V / Rated value	kA	110	
• at 440 V / Rated value	kA	110	
• at 500 V / Rated value	kA	85	
• at 690 V / Rated value	kA	2.5	
Short-circuit current making capacity (Icm)	-		
• at 240 V / Rated value	kA	330	
• at 415 V / Rated value	kA	242	
• at 440 V / Rated value	kA	242	
• at 500 V / Rated value	kA	187	
• at 690 V / Rated value	kA	3.75	

Connections	
Arrangement of electrical connectors / for main	Front terminal
current circuit	
Type of connectable conductor cross-section	
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>	13 x 1 mm
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>	25 x 8.5
Type of electrical connection / for main current circuit	Lug terminal

Mechanical Design		
Height	mm	181
Width	mm	105
Depth	mm	107
Mounting type		fixed mounting

Environmental conditions			
Ambient temperature			
<ul> <li>during operation / minimum</li> </ul>	°C	-25	
<ul> <li>during operation / maximum</li> </ul>	°C	70	
<ul> <li>during storage / minimum</li> </ul>	°C	-40	
<ul> <li>during storage / maximum</li> </ul>	°C	80	

Certificates						
Equipment mar	king					
• acc. to DI	N EN 61346-2			Q		
• acc. to DI	N EN 81346-2			Q		
General Pro	duct Approval		EM	С	Declaration of	Shipping
					Conformity	Approval
(m)	DE	103		other	CE	ĴÅ

Shipping	other
Approval	
	other
GL	

GL

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

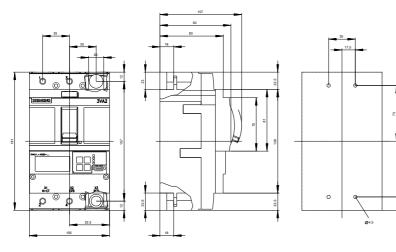
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21407KQ320AA0

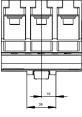
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21407KQ320AA0/all

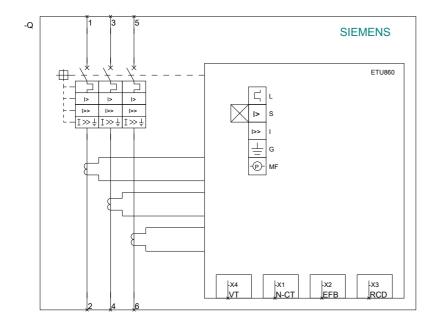
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21407KQ320AA0

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://ausschreibungstexte.siemens.com/tiplv







last modified:

11.03.2015