SIEMENS

Data sheet

3VA1140-4ED32-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 3-pole, line protection TM210, FTFM, In=40A overload protection Ir=40A fixed short-circuit protection Ii=10 x In nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	10.8 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	9 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	6 300
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
 communication function 	No
 other measurement function 	No
Net Weight	970 g
Current	
operational current	
• at 40 °C	40 A
• at 45 °C	40 A
• at 50 °C	40 A
● at 55 °C	39 A
● at 60 °C	39 A
● at 65 °C	38 A
• at 70 °C	37 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
● at 500 V	7 kA
• at 690 V	7 kA
operating short-circuit current breaking capacity (lcs)	

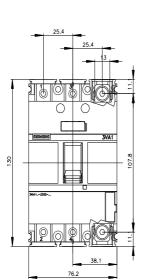
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
● at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
● at 415 V	75.6 kA
• at 440 V	52.5 kA
● at 500 V	11.9 kA
• at 690 V	11.9 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip / with	
I2t characteristic	
• minimum	40 A
maximum	40 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1 s
adjustable response value setting current (Ii) / for I-tripping	
• minimum	400 A
• maximum	400 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	5.12 in
height	130 mm
width [in]	3 in
width	76.2 mm
depth [in]	2.76 in
depth	70 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the	17 x 6,5 mm Silver
switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the	Tin
switch (N, 2, 4, 6) Auxiliary circuit	
	0
number of CO contacts / for auxiliary contacts Accessories	
number of CO contacts / for auxiliary contacts Accessories	
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive	0
number of CO contacts / for auxiliary contacts Accessories	0
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions	0 Yes
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front	0 Yes
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature	0 Yes IP40
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum	0 Yes IP40 -25 °C

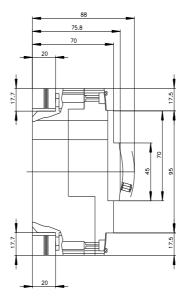
 during storage / n 	naximum	80 °C)		
Certificates					
reference code / accord	ing to IEC 81346-2	Q			
General Product Appr	oval				
<u>Confirmation</u>			<u>Miscellaneous</u>	KC	EHC
EMC	Declaration of Confor	mity	Test Certificates		
RCM	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>
Marine / Shipping					other
ABS			RMRS R	CCS / China Classific- ation Society	<u>Confirmation</u>
other		Environment			
<u>Miscellaneous</u>	<u>Miscellaneous</u>	Environmental Con- firmations			

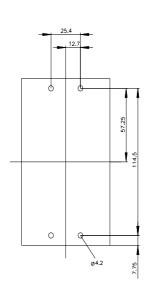
Further information	
	the Russian market (see here). al/en/pressrelease/siemens-wind-down-russian-business
Please contact your local Siem	enewal of the current EAC certificates. ens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an in the sanctioned EAEU member states Russia or Belarus).
Information on the packaging https://support.industry.siemen	3 s.com/cs/ww/en/view/109813875
Information- and Downloadco	enter (Catalogs, Brochures,) Itage/catalogs
Industry Mall (Online orderin https://mall.industry.siemens.co	g system) om/mall/en/en/Catalog/product?mlfb=3VA1140-4ED32-0AA0
	Certificates, Characteristics, FAQs,) s.com/cs/ww/en/ps/3VA1140-4ED32-0AA0
0	iges, 2D dimension drawings, 3D models, device circuit diagrams,) a.com/bilddb/cax_en.aspx?mlfb=3VA1140-4ED32-0AA0
CAx-Online-Generator http://www.siemens.com/cax	
Tender specifications	

Tender specifications http://www.siemens.com/specifications

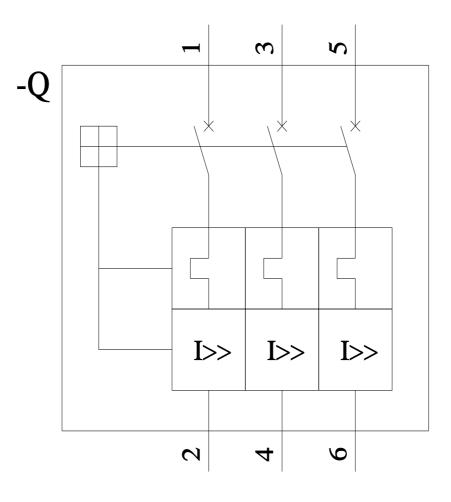
3VA11404ED320AA0 Page 3/6







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