## **SIEMENS**

## **Data sheet**

## 3VM1180-3ED32-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM210, FTFM, In=80A overload protection Ir=80A, not adjustable 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 AC / at 50/60 Hz / rated value	500 V	
operating voltage / at DC / rated value	500 V	
operating voltage / at AC / rated value	690 V	
power loss [W] / maximum	19 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	6.4 W	
mechanical service life (operating cycles) / typical	15 000	
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000	
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No	
ground-fault monitoring version	Without	
product function		
• communication function	No	
<ul> <li>other measurement function</li> </ul>	No	
Net Weight	967 g	
Current		
operational current		
• at 40 °C	80 A	
at 45 °C	80 A	
● at 50 °C	80 A	
● at 55 °C	78 A	
• at 60 °C	77 A	
• at 65 °C	75 A	
• at 70 °C	74 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	N	
maximum short-circuit current breaking capacity (Icu)		
• at 240 V	36 kA	
• at 415 V	25 kA	
• at 440 V	16 kA	
• at 500 V	7 kA	
operating short-circuit current breaking capacity (lcs)		

● at 240 V	27 kA	
● at 415 V	18 kA	
● at 440 V	12 kA	
● at 500 V	5 kA	
short-circuit current making capacity (lcm)		
• at 240 V	76 kA	
• at 415 V	53 kA	
• at 440 V	32 kA	
• at 500 V	12 kA	
design of short-circuit protection	For switching capacity values in DC power systems	2 coo tho 2\/A
design of short-circuit protection	Molded Case Circuit Breaker Manual; link available	
	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	80 A	
maximum	80 A	
adjustable response value delay time (tr) / for L-tripping /		
with I2t characteristic		
• minimum	1 s	
• maximum	1 s	
adjustable current response value current / of		
instantaneous short-circuit trip unit		
• maximum	800 A	
product function / grounding protection	No	
Mechanical Design		
product component		
<ul> <li>undervoltage release</li> </ul>	No	
<ul> <li>voltage trigger</li> </ul>	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	Front connection	
circuit	Tiont connection	
type of electrical connection / for main current circuit	nut keeper kit on both ends	
type of connectable conductor cross-sections / for flat-bar	12 x 1 mm	
terminal connection / minimum		
type of connectable conductor cross-sections / for flat-bar	17 x 6.5 mm	
terminal connection / maximum		
design of the surface / of the connections / on the top of	Silver	
the switch (N, 1, 3, 5)	_	
design of the surface / of the connections / on the bottom	Tin	
of the switch (N, 2, 4, 6)		
Auxiliary circuit		
number of CO contacts / for auxiliary contacts	0	
Accessories		
product extension / optional / motor drive	No	
Environmental conditions		
protection class IP / on the front	IP40	
ambient temperature		
during operation / minimum	-25 °C	
during operation / maximum	70 °C	
during storage / minimum	-40 °C	
during storage / maximum	80 °C	
Certificates		
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reference code / according to IEC 81346-2	Q	Dealer ()
General Product Approval		Declaration of Conformity
		Joinionnity





<u>Miscellaneous</u>





Declaration of Conformity

**Test Certificates** 

Marine / Shipping



**Miscellaneous** 









other

Environment

**Miscellaneous** 

Confirmation

Environmental Confirmations

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VM1180-3ED32-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VM1180-3ED32-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

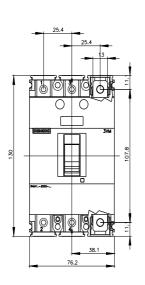
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VM1180-3ED32-0AA0

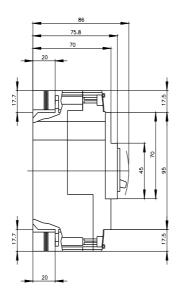
**CAx-Online-Generator** 

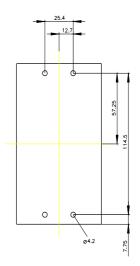
http://www.siemens.com/cax

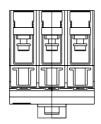
**Tender specifications** 

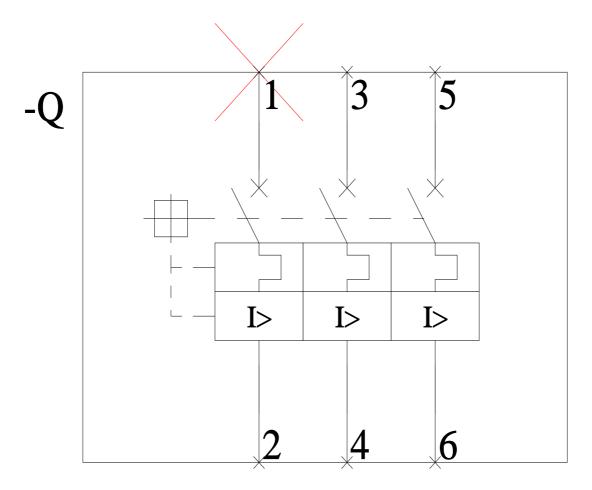
http://www.siemens.com/specifications











last modified: 8/1/2022 🖸