## 3VA4130-6ED24-0AA0

**Data sheet** 



circuit breaker 3VA4 UL frame 125 breaking capacity class H 65kA @ 480 V 2-pole, line protection TM210, FTFM, In=30A overload protection Ir=30A fixed short-circuit protection Ii=10 x In clamp connection

Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
Product version	System protection			
design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes			
design of the load switch / acc. to UL 489 / High-Intensity- Discharge circuit breaker (HID Type)	Yes			
design of the overcurrent release	TM210			
protection function of the overcurrent release	LI			
number of poles	2			
General technical data				
power loss [W] / maximum	6 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	3 W			
mechanical service life (switching cycles) / typical	15 000			
electrical endurance (switching cycles) / at 480 V	8 000			
electrical endurance (switching cycles) / at 600 V	4 000			
Neutral conductors / upgradeable/retrofittable	No			
ground-fault monitoring version	Without			
product function				
<ul> <li>communication function</li> </ul>	No			
<ul> <li>other measurement function</li> </ul>	No			
Current				
marking / acc. to UL 489 / 100%-rated breaker	No			
Max. rated operational current of the frame size	125 A			
Courant permanent assigné lu	30 A			
operational current				
• at 40 °C	30 A			
● at 45 °C	29 A			
● at 50 °C	29 A			
● at 55 °C	28 A			
• at 60 °C	27 A			
● at 65 °C	27 A			
● at 70 °C	26 A			
Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	Н			

District   Content   Con	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					
• at 240 V • at 480 V/277 V • at 480 V V • at 480 V V • at 600 Y/347 V 25 kA  Adjustable parameters  Adjustable response value current / li min. 300 A Adjustable response value current / li min. 300 A Adjustable response value current / li max. Ground fault protection / tripping switchable / I2t=ON/OFF No  Mechanical Design  Height 129.4 mm width [in] 2 in Width 50.8 mm depth 75.1 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  Environmental conditions protection class IP / on the front eduring operation / maximum eduring storage / minimum eference code / acc. to IEC 81346-2  Q	Switching capacity according to UL 489						
	breaking capacity current						
at 480 V at 600 Y/347 V 25 kA  Adjustable parameters  Adjustable response value current / li min. Adjustable response value current / li max. 300 A  Adjustable response value current / li max. 300 A  Ground fault protection / tripping switchable / I2t=ON/OFF  Mechanical Design  Height   129.4 mm  width [in]   2 in  Width   50.8 mm  depth   75.1 mm  Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front eduring operation / maximum eduring storage / minimum eduring storage / maximum efference code / acc. to IEC 81346-2  Q	• at 240 V	100 kA					
• at 600 Y/347 V 25 kA  Adjustable parameters  Adjustable response value current / li min. 300 A  Adjustable response value current / li max. 300 A  Ground fault protection / tripping switchable / 12t=ON/OFF  Mechanical Design  height [in] 5.1 in  Height 129.4 mm  width [in] 2 in  Width 50.8 mm  depth 75.1 mm  Connections  arrangement of electrical connectors / for main current circuit tricuit  type of electrical connection / for main current circuit  Type of connectable conductor cross-section, round conductor terminal, stranded  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 ambient temperature  • during operation / minimum - 25 °C  • during operation / minimum - 40 °C  • during storage / maximum - 80 °C  Certificates  reference code / acc. to IEC 81346-2 Q	● at 480 Y/277 V	65 kA					
Adjustable parameters  Adjustable response value current / li min. 300 A Adjustable response value current / li max. 300 A Soround fault protection / tripping switchable / I2t=ON/OFF Mechanical Design height [in] 5.1 in Height 129.4 mm width [in] 2 in Width 50.8 mm depth [in] 3 in depth 75.1 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded  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 ambient temperature	• at 480 V	65 kA					
Adjustable response value current / li min. Adjustable response value current / li max. 300 A Ground fault protection / tripping switchable / I2t=ON/OFF  Mechanical Design height [in] Height 129.4 mm width [in] 2 in Width 50.8 mm depth 75.1 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit number of CO contacts / for auxiliary contacts  Accessories product extension / optional / motor drive No  Environmental conditions protection class IP / on the front ambient temperature	● at 600 Y/347 V	25 kA					
Adjustable response value current / li max.  Ground fault protection / tripping switchable / I2t=ON/OFF  Mochanical Design  height [in]  Height 129.4 mm  width [in] 2 in  Width 50.8 mm  depth [in] 3 in  depth 75.1 mm  Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit  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 / maximum • during storage / minimum • during storage / minimum • during storage / maximum 80 °C  Certificates  reference code / acc. to IEC 81346-2  Q	Adjustable parameters						
Ground fault protection / tripping switchable / I2t=ON/OFF  Mechanical Design height [in] 5.1 in Height 129.4 mm width [in] 2 in Width 50.8 mm depth [in] 3 in depth [in] 3 in  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded  Auxillary circuit number of CO contacts / for auxilliary contacts  Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front IP40 ambient temperature	Adjustable response value current / li min.	300 /	4				
Mechanical Design   height [in]   5.1 in   Height   129.4 mm   width [in]   2 in   Width   50.8 mm   depth [in]   3 in   depth   75.1 mm   Connections   arrangement of electrical connectors / for main current circuit   type of electrical connection / for main current circuit   Infeed side: Low tab   1 x (14 AWG - 8 AWG)   conductor terminal, stranded   Auxiliary circuit   number of CO contacts / for auxiliary contacts   O   Accessories   product extension / optional / motor drive   No   Environmental conditions   protection class IP / on the front   ambient temperature   during operation / maximum   40 °C   during storage / maximum   40 °C   eduring storage / maximum   80 °C   Certificates   Certific	Adjustable response value current / li max.	300 /	300 A				
height [in]	Ground fault protection / tripping switchable / I2t=ON/OFF	No					
Height 129.4 mm  width [in] 2 in  Width 50.8 mm  depth [in] 3 in  depth 75.1 mm  Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Type of connectable conductor cross-section, round conductor terminal, stranded  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 ambient temperature  • during operation / minimum -25 °C  • during operation / maximum 70 °C  • during storage / minimum -40 °C  • during storage / minimum -40 °C  • during storage / maximum 80 °C  Certificates  reference code / acc. to IEC 81346-2	Mechanical Design						
width [in] 2 in  Width 50.8 mm  depth [in] 3 in  depth 75.1 mm  Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / minimum  • during storage / maximum  80 °C  Certificates  reference code / acc. to IEC 81346-2  Q	height [in]	5.1 ir	5.1 in				
Width 50.8 mm  depth [in] 3 in  depth 75.1 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Infeed side: Low tab  Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive No  Environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  80 °C  Certificates  reference code / acc. to IEC 81346-2  Q	Height	129.4	129.4 mm				
depth [in] 3 in depth 75.1 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Infeed side: Low tab  Type of connectable conductor cross-section, round conductor terminal, stranded  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  reference code / acc. to IEC 81346-2 Q	width [in]	2 in					
depth 75.1 mm  Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit  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 / maximum  • during operation / maximum  • during storage / minimum  • during storage / maximum  80 °C  Certificates  reference code / acc. to IEC 81346-2  Q	Width	50.8 mm					
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit  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 / maximum • during operation / maximum • during storage / minimum • during storage / maximum  80 °C  Certificates  reference code / acc. to IEC 81346-2  Q  Infeed side: Circular conductor terminal  Infeed side: Low tab  1 x (14 AWG - 8 AWG)  0 No  1 x (14 AWG - 8 AWG)  0 No  1 x (14 AWG - 8 AWG)  1 x (14 AWG - 8 AWG)	depth [in]	3 in					
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit  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 / maximum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / maximum  80 °C  Certificates  reference code / acc. to IEC 81346-2  Q  Infeed side: Circular conductor terminal  Infeed side: Circular to the total	depth	75.1 mm					
type of electrical connection / for main current circuit  Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit  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 / maximum  during operation / maximum  during storage / minimum  during storage / maximum  during storage / maximum  eference code / acc. to IEC 81346-2  Q	Connections						
Type of connectable conductor cross-section, round conductor terminal, stranded  Auxiliary circuit  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 -25 °C • during operation / maximum 70 °C • during storage / minimum -40 °C • during storage / maximum 80 °C  Certificates reference code / acc. to IEC 81346-2  Q	· · · · · · · · · · · · · · · · · · ·	Load side: Circular conductor terminal					
conductor terminal, stranded  Auxiliary circuit  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  -25 °C  • during operation / maximum  70 °C  • during storage / minimum  -40 °C  • during storage / maximum  80 °C  Certificates  reference code / acc. to IEC 81346-2  Q	type of electrical connection / for main current circuit	Infeed side: Low tab					
number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front ambient temperature  • during operation / minimum -25 °C • during operation / maximum 70 °C • during storage / minimum -40 °C • during storage / maximum 80 °C  Certificates  reference code / acc. to IEC 81346-2  Q		1 x (	1 x (14 AWG - 8 AWG)				
Accessories product extension / optional / motor drive  Environmental conditions protection class IP / on the front ambient temperature  • during operation / minimum -25 °C • during operation / maximum 70 °C • during storage / minimum -40 °C • during storage / maximum 80 °C  Certificates  reference code / acc. to IEC 81346-2  Q	Auxiliary circuit						
product extension / optional / motor drive  Environmental conditions  protection class IP / on the front ambient temperature  • during operation / minimum • during operation / maximum 70 °C • during storage / minimum • during storage / maximum 80 °C  Certificates  reference code / acc. to IEC 81346-2  Q	number of CO contacts / for auxiliary contacts	0	0				
Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  80 °C  Certificates  reference code / acc. to IEC 81346-2  Q	Accessories						
protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  • during storage / maximum  Certificates  reference code / acc. to IEC 81346-2  Q	product extension / optional / motor drive	No	No				
ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / minimum  • during storage / maximum  Certificates  reference code / acc. to IEC 81346-2  Q	Environmental conditions						
<ul> <li>during operation / minimum</li> <li>during operation / maximum</li> <li>C</li> <li>during storage / minimum</li> <li>C</li> <li>during storage / maximum</li> <li>C</li> <li>Certificates</li> </ul> Certificates reference code / acc. to IEC 81346-2 Q	protection class IP / on the front	IP40	IP40				
<ul> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>80 °C</li> </ul> Certificates reference code / acc. to IEC 81346-2 <ul> <li>Q</li> </ul>	ambient temperature						
<ul> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>Certificates</li> <li>reference code / acc. to IEC 81346-2</li> </ul> Q	<ul><li>during operation / minimum</li></ul>	-25 °	-25 °C				
during storage / maximum 80 °C  Certificates  reference code / acc. to IEC 81346-2  Q	<ul><li>during operation / maximum</li></ul>	70 °C	70 °C				
Certificates reference code / acc. to IEC 81346-2  Q	<ul> <li>during storage / minimum</li> </ul>	-40 °	-40 °C				
reference code / acc. to IEC 81346-2 Q	<ul> <li>during storage / maximum</li> </ul>	80 °0	80 °C				
	Certificates						
General Product Approval EMC other	reference code / acc. to IEC 81346-2	Q					
	General Product Approval		EMC	other			



Miscellaneous





**Miscellaneous** 

## Further information

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=3VA4130-6ED24-0AA0

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3VA4130-6ED24-0AA0

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

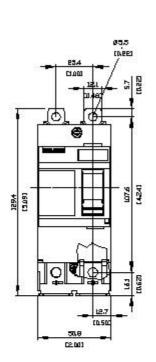
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA4130-6ED24-0AA0

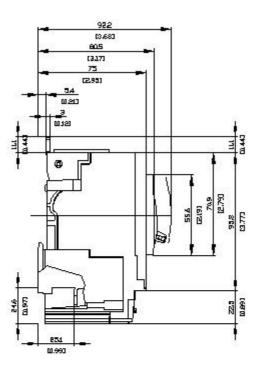
**CAx-Online-Generator** 

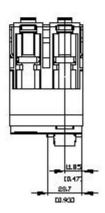
http://www.siemens.com/cax

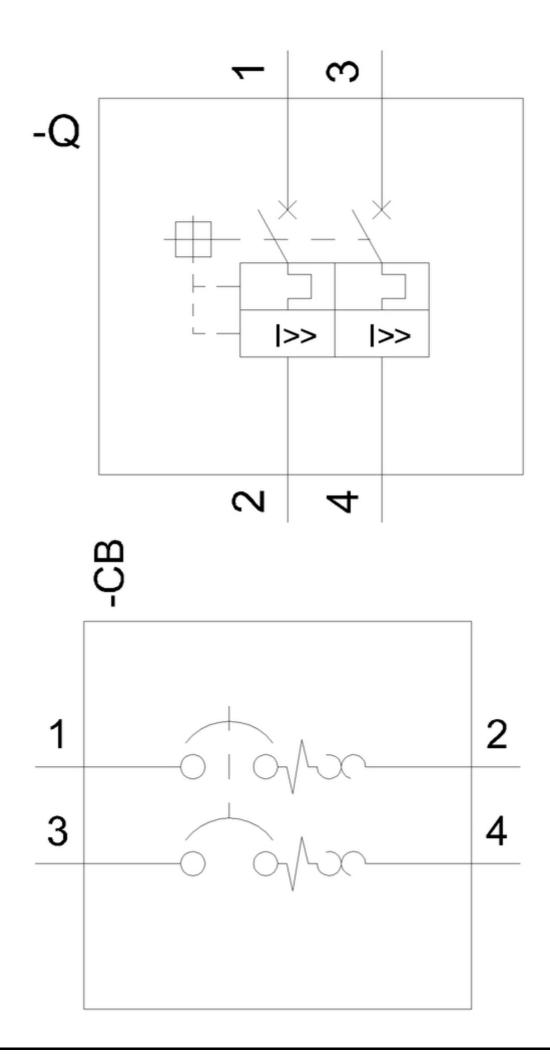
**Tender specifications** 

http://www.siemens.com/specifications









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