

circuit breaker 3VA1 IEC frame 630 breaking capacity class C
Icu=110kA @ 415 V 3-pole, starter protection TM120M, AM,
In=400A without overload protection short-circuit protection li=8...16
x In nut keeper kit



Model	
product brand name	SETRON
product designation	Molded case circuit breaker
Product version	Starter protection
design of the overcurrent release	TM120M
protection function of the overcurrent release	I
number of poles	3

General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
power loss [W] / maximum	76.8 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	25.6 W
mechanical service life (switching cycles) / typical	15 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	4 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	2 700
Neutral conductors / upgradeable/retrofitable	No

ground fault monitoring version	Without
product function	
• communication function	No
• phase failure detection	No
• other measurement function	No

Current

Max. rated operational current of the frame size	630 A
Courant permanent assigné lu	400 A
operating current	
• at 40 °C	400 A
• at 45 °C	400 A
• at 50 °C	400 A
• at 55 °C	392 A
• at 60 °C	384 A
• at 65 °C	376 A
• at 70 °C	367 A

Switching capacity according to IEC 60947

switching capacity class of the circuit breaker	C
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	200 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	70 kA
• at 690 V	10 kA
operational short-circuit current breaking capacity (Ics)	
• at 240 V	200 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	70 kA
• at 690 V	6 kA
short-circuit current making capacity (Icm)	
• at 240 V	440 kA
• at 415 V	242 kA
• at 440 V	242 kA
• at 500 V	154 kA
• at 690 V	17 kA

Adjustable parameters

Adjustable response value current / li min.	2 400 A
Adjustable response value current / li max.	4 800 A

Ground fault protection / tripping switchable / I2t=ON/OFF	No		
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Mechanical Design			
height [in]	9.8 in		
Height	248 mm		
width [in]	5.4 in		
Width	138 mm		
depth [in]	4.3 in		
depth	110 mm		

Connections			
arrangement of electrical connectors / for main current circuit	Front terminal		

Auxiliary circuit			
number of CO contacts / for auxiliary contacts	0		

Accessories			
product extension / optional / motor drive	Yes		

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 DIN EN 81346-2	Q		

General Product Approval		EMC	Declaration of Conformity
 CCC	 VDE	 EAC	 RCM

[Miscellaneous](#)

Test Certificates	Shipping Approval	other		
Miscellaneous	 LRS	Confirmation	Manufacturer Declaration	Miscellaneous

Further information			
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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=3VA1440-7MH32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1440-7MH32-0AA0>

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

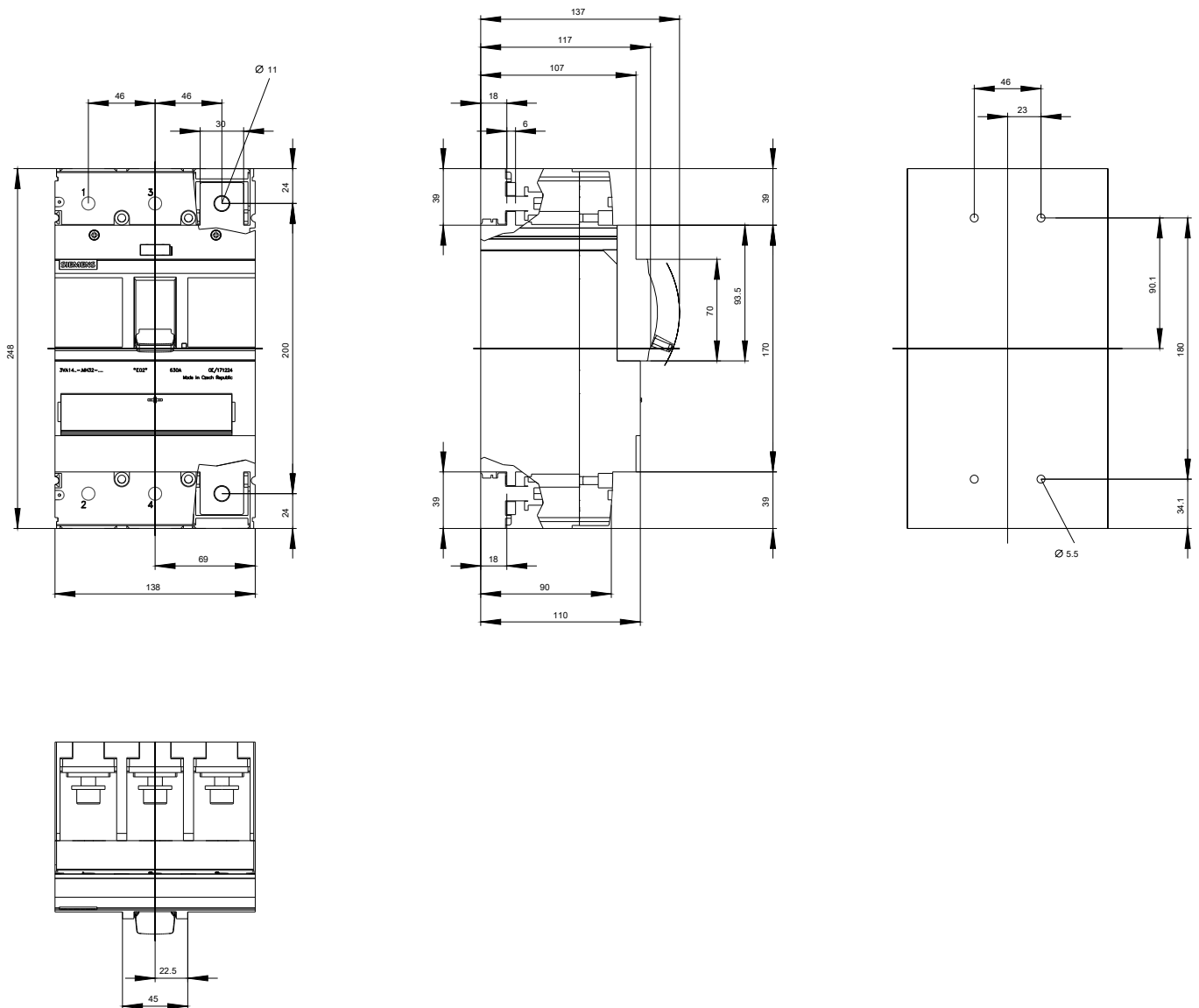
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1440-7MH32-0AA0

CAX-Online-Generator

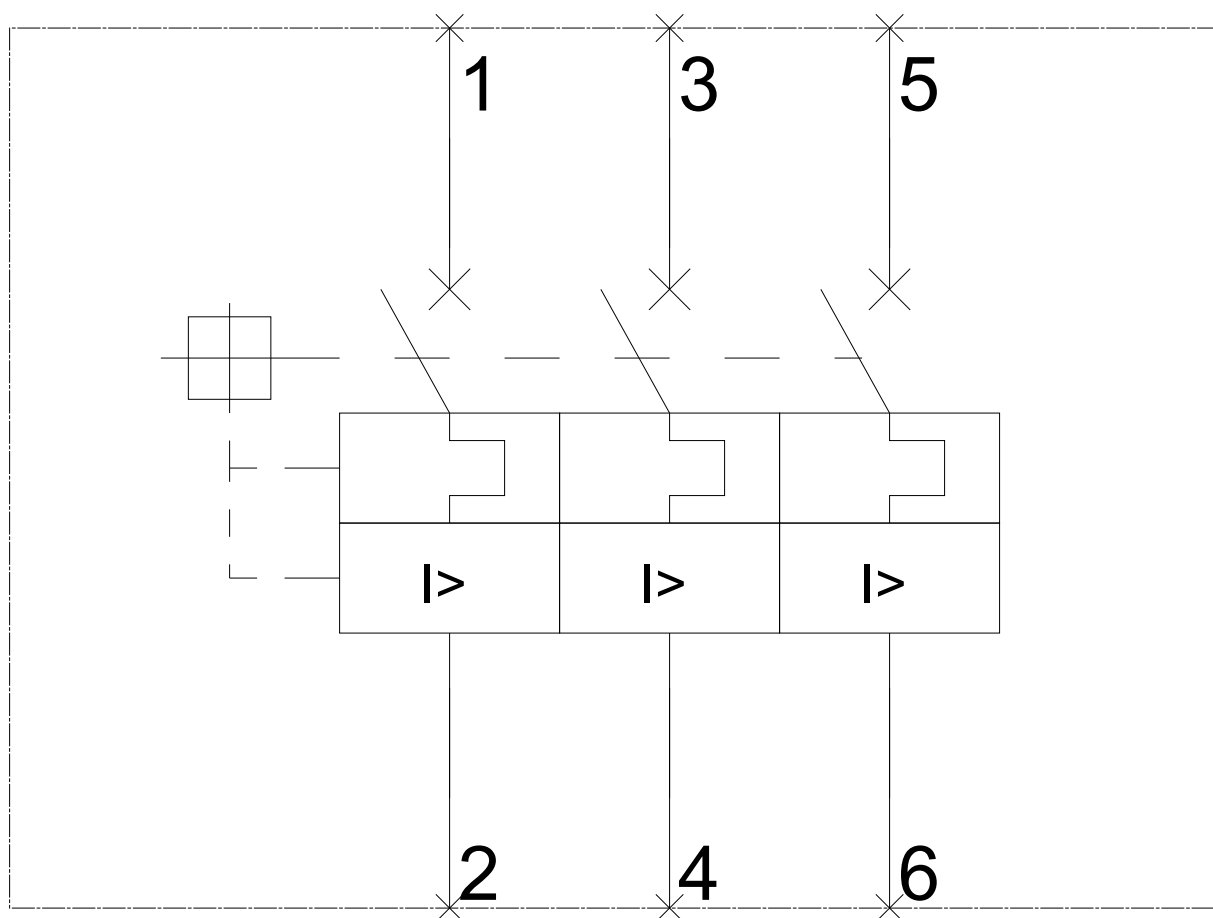
<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



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10/30/2020