SIEMENS

Data sheet 3VA2450-5KP32-0AA0



circuit breaker 3VA2 IEC frame 630 breaking capacity class M Icu=55kA @ 415V 3-pole, line protection ETU850, LSI, In=500A overload protection Ir=200A...500A short-circuit protection Isd=0.6..10x In, Ii=1.5..14x In N conductor protection optionally with external current transformer, up to 160% nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
Product version	Line protection
design of the overcurrent release	ETU850
protection function of the overcurrent release	LSI
number of poles	3
General technical data	
Tension assignée d'isolement Ui	800 V
power loss [W] / maximum	99 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	33 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	4 000
Neutral conductors / upgradeable/retrofittable	Yes
ground-fault monitoring version	Without
product function	
● communication function	Yes
● other measurement function	Yes
net weight	4.3 kg
Current	
short-time withstand current (Icw)	
● at AC / limited to 0.5 s / rated value	6 kA
● limited to 1 s	6 kA
operational current	
● at 40 °C	500 A
● at 45 °C	500 A
● at 50 °C	500 A
● at 55 °C	477 A
● at 60 °C	455 A
● at 65 °C	432 A
● at 70 °C	410 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
breaking capacity maximum short-circuit current (Icu)	

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● at 240 V	85 kA
● at 415 V	55 kA
● at 440 V	55 kA
● at 500 V	36 kA
● at 690 V	6 kA
breaking capacity operating short-circuit current (Ics)	
● at 240 V	85 kA
● at 415 V	55 kA
● at 440 V	55 kA
● at 500 V	36 kA
● at 690 V	6 kA
short-circuit current making capacity (Icm)	
● at 240 V	187 kA
● at 415 V	121 kA
● at 690 V	9 kA
Adjustable parameters	
Adjustable response value current / Ig min.	200 A
Adjustable response value current / Ig min.	500 A
Adjustable response value current / Ig min.	0.5
Adjustable response value current / Ig min.	20
Adjustable response value current / Ig min.	300 A
Adjustable response value current / Ig min.	5 000 A
Adjustable response value current / Ig min.	0.05 s
Adjustable response value current / Ig min.	0.5 s
Adjustable response value current / Ig min.	0.05 s
Adjustable response value current / Ig min.	0.5 s
Adjustable response value current / Ii min.	750 A
Adjustable response value current / Ii max.	7 000 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
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
type of electrical connection / for main current circuit	on both sides nut keeper kit
Type of connectable conductor cross-section, connection screw, width x thickness , min.	20 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	35 x 10 mm
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 IEC 81346-2	Q

General Product Approval	**EMC**	**Declaration of**

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					Conformity
CCC	VDE	Miscellaneous	EAC	RCM	CE EG-Konf.

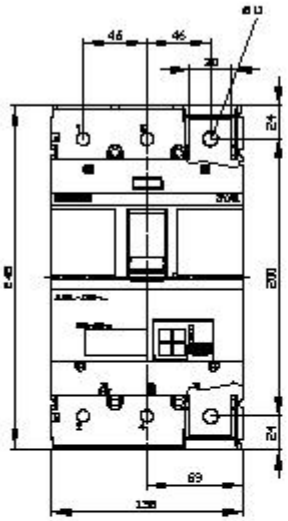
Test Certificates			Shipping Approval		
Type Test Certificates/Test Report	Special Test Certificate	Miscellaneous	ABS	BUREAU VERITAS	Lloyd's Register LRS

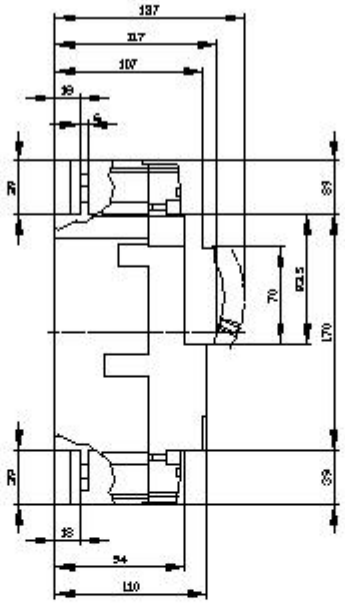
Shipping Approval		other	
RMRS	CCS / China Classification Society	Manufacturer Declaration	Miscellaneous

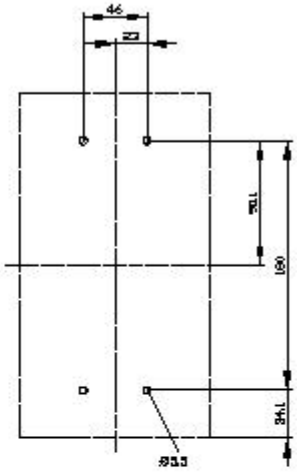
Further information

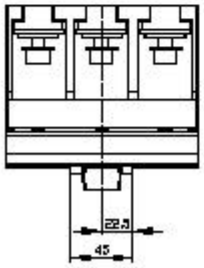
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Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2450-5KP32-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA2450-5KP32-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2450-5KP32-0AA0
Tender specifications
http://www.siemens.com/specifications

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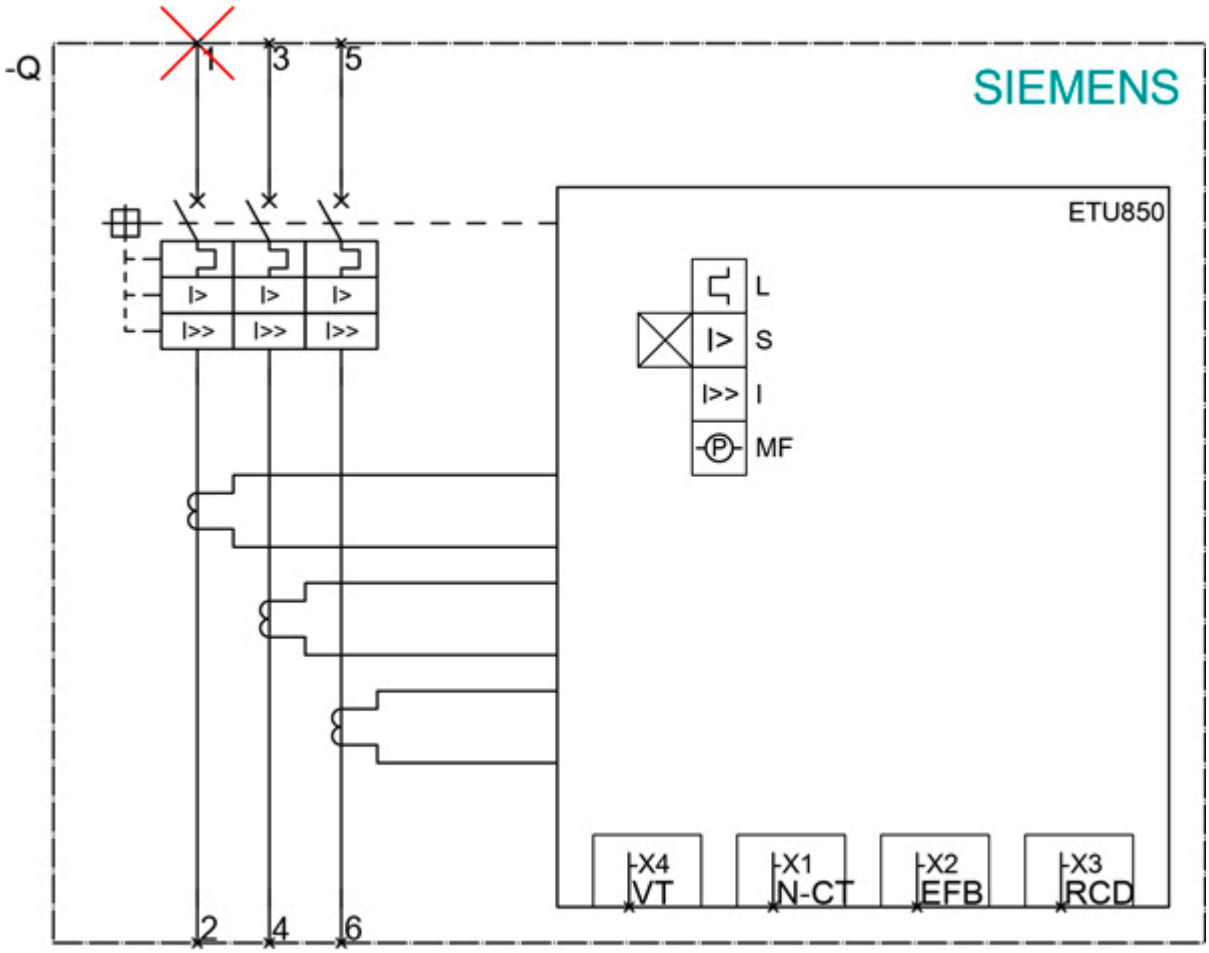








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