SIEMENS

Data sheet

3VA2025-5HN42-0AA0



circuit breaker 3VA2 IEC frame 100 breaking capacity class M Icu=55kA @ 415V 4-pole, line protection ETU350, LSI, In=25A overload protection Ir=10A...25A short-circuit protection Isd=1.5...10 x Ir, Ii=12 x In N conductor protection adjustable (OFF, 100%) 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	ETU350			
protection function of the overcurrent release	LSI			
number of poles	4			
eneral technical data				
insulation voltage / rated value	800 V			
operating voltage / at AC / rated value	690 V			
power loss [W] / maximum	0.84 W			
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.28 W			
mechanical service life (operating cycles) / typical	25 000			
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	15 000			
electrical endurance (operating cycles) / at AC-1 / at 690 V	10 500			
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	2.716 kg			
Current				
operational current				
• at 40 °C	25 A			
● at 45 °C	25 A			
● at 50 °C	25 A			
● at 55 °C	25 A			
● at 60 °C	25 A			
● at 65 °C	25 A			
● at 70 °C	25 A			
Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	М			
maximum short-circuit current breaking capacity (Icu)				
• at 240 V	85 kA			
• at 415 V	55 kA			
• at 440 V	55 kA			
● at 500 V	36 kA			
• at 690 V	2 kA			
operating short-circuit current breaking capacity (lcs)				

• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	2 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	121 kA
• at 500 V	75.6 kA
• at 690 V	3 kA
Adjustable parameters	No
_ product feature / for L-tripping / can be switched on/off adjustable response value setting current (Ir) / of the L-trip / with	No
I2t characteristic	
• minimum	10 A
• maximum	25 A
adjustable response value delay time (tr) / for L-tripping / with l2t characteristic	
• minimum	0.5 s
• maximum	17 s
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
• minimum	37 A
• maximum	250 A
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic	
• minimum	0.0001 s
maximum	0.4 s
adjustable response value setting current (li) / for I-tripping	200 4
● minimum ● maximum	300 A 300 A
adjustable setting current (InN) / for N-tripping	500 A
	25 A
• minimum	25 A 25 A
minimum maximum	25 A
minimum maximum design of the N-conductor protection	
minimum maximum design of the N-conductor protection product function / grounding protection	25 A adjustable OFF; 100%
minimum maximum design of the N-conductor protection	25 A adjustable OFF; 100%
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design	25 A adjustable OFF; 100%
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component	25 A adjustable OFF; 100% No
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component • undervoltage release	25 A adjustable OFF; 100% No
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component undervoltage release voltage trigger	25 A adjustable OFF; 100% No No
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component undervoltage release voltage trigger trip indicator	25 A adjustable OFF; 100% No No No
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in]	25 A adjustable OFF; 100% No No No 7.13 in
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height	25 A adjustable OFF; 100% No No No 7.13 in 181 mm
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in]	25 A adjustable OFF; 100% No No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] width depth [in]	25 A adjustable OFF; 100% No No No 7.13 in 181 mm 5.51 in 140 mm
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in] depth Connections	25 A adjustable OFF; 100% No No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit	25 A adjustable OFF; 100% No No No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit	25 A adjustable OFF; 100% No No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm Front terminal on both sides nut keeper kit
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	25 A adjustable OFF; 100% No No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm Front terminal on both sides nut keeper kit 13 x 1 mm
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	25 A adjustable OFF; 100% No No No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm Front terminal on both sides nut keeper kit 13 x 1 mm 25 x 8 mm
minimum maximum design of the N-conductor protection product function / grounding protection <u>Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in] depth <u>Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) </u></u>	25 A adjustable OFF; 100% No No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm Front terminal on both sides nut keeper kit 13 x 1 mm 25 x 8 mm tin
 minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component undervoltage release voltage trigger trip indicator height [in] height width depth Connections arrangement of electrical connectors / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / maximum type of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) 	25 A adjustable OFF; 100% No No No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm Front terminal on both sides nut keeper kit 13 x 1 mm 25 x 8 mm
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height [in] height [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit	25 A adjustable OFF; 100% No No No No No No No So 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm Front terminal on both sides nut keeper kit 13 x 1 mm 25 x 8 mm tin
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts	25 A adjustable OFF; 100% No No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm Front terminal on both sides nut keeper kit 13 x 1 mm 25 x 8 mm tin
minimum maximum design of the N-conductor protection product function / grounding protection Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height [in] height [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit	25 A adjustable OFF; 100% No No No No No No No So 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm Front terminal on both sides nut keeper kit 13 x 1 mm 25 x 8 mm tin

Environmental condition	ns				
protection class IP / on	the front	IP40			
ambient temperature					
 during operation 	/ minimum	-25 °(С		
 during operation 	/ maximum	70 °C	;		
 during storage / n 	ninimum	-40 °0	C		
 during storage / n 	naximum	80 °C	;		
reference code / accord	ing to IEC 81346-2	Q			
Approvals / Certificates					
General Product Appr	oval				EMC
CCC	<u>Confirmation</u>	VDE	<u>Miscellaneous</u>	EHC	RCM
Declaration of Confor	mity	Test Certificates			Marine / Shipping
CE EG-Konf.	UK CA	<u>Miscellaneous</u>	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS
Marine / Shipping					other
B U R E A U VERITAS		Lloyd's Register uts	RMRS	<u>CCS / China Classific-</u> ation Society	<u>Miscellaneous</u>
other		Dangerous Good	Environment		
Confirmation	<u>Miscellaneous</u>	Transport Information	Environmental Con- firmations		

Further	

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=3VA2025-5HN42-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VA2025-5HN42-0AA0

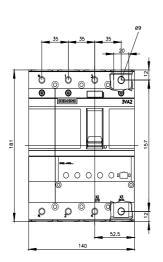
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2025-5HN42-0AA0

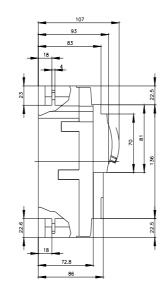
CAx-Online-Generator

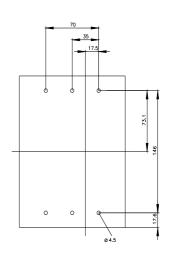
http://www.siemens.com/cax

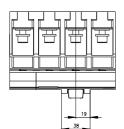
Tender specifications

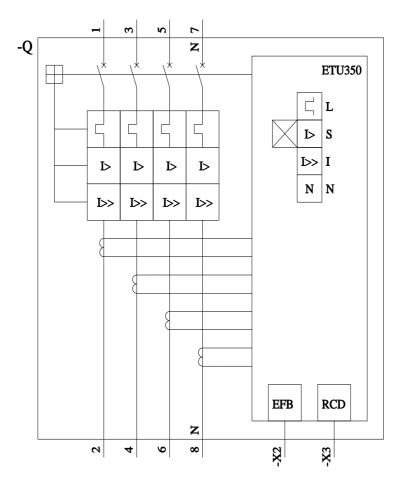
http://www.siemens.com/specifications











8/14/2023 🖸