SIEMENS

Data sheet

3VA2025-8HL42-0AA0



circuit breaker 3VA2 IEC frame 100 breaking capacity class L Icu=150kA @ 415V 4-pole, line protection ETU320, LI, In=25A overload protection Ir=10A...25A short-circuit protection Ii=1.5...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	ETU320			
protection function of the overcurrent release	LI			
number of poles	4			
General technical data				
insulation voltage / rated value	800 V			
operating voltage / at AC / rated value	690 V			
power loss [W] / maximum	0.5 W			
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.17 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	3.2 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	L			
maximum short-circuit current breaking capacity (Icu)				
• at 240 V	200 kA			
• at 415 V	150 kA			
• at 440 V	150 kA			
• at 500 V	100 kA			
• at 690 V	25 kA			
operating short-circuit current breaking capacity (Ics)				

• at 240 V	200 kA
• at 415 V	150 kA
• at 440 V	150 kA
● at 500 V	100 kA
● at 690 V	18 kA
short-circuit current making capacity (Icm)	
• at 240 V	440 kA
• at 415 V	330 kA
• at 440 V	330 kA
• at 500 V	220 kA
• at 690 V	52.5 kA
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip / with	INU
I2t characteristic	
• minimum	10 A
• maximum	25 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	17 s
adjustable response value setting current (li) / for I-tripping	
• minimum	38 A
• maximum	300 A
adjustable setting current (InN) / for N-tripping	
• minimum	25 A
• maximum	25 A
design of the N-conductor protection	adjustable OFF; 100%
product function / grounding protection	No
Mechanical Design	
product component	
product component undervoltage release 	No
undervoltage release	No
undervoltage releasevoltage trigger	
 undervoltage release voltage trigger trip indicator 	No No
 undervoltage release voltage trigger trip indicator height [in] 	No No 7.13 in
undervoltage release voltage trigger trip indicator height [in] height	No No 7.13 in 181 mm
undervoltage release voltage trigger trip indicator height [in] height width [in]	No No 7.13 in 181 mm 5.51 in
undervoltage release voltage trigger trip indicator height [in] height width [in] width	No No 7.13 in 181 mm 5.51 in 140 mm
undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in]	No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in
undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in]	No No 7.13 in 181 mm 5.51 in 140 mm
undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in] depth Connections	No No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm
undervoltage release voltage trigger trip indicator height [in] height width [in] width depth [in] depth Connections arrangement of electrical connectors / for main current circuit	No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm Front terminal
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	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
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	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
undervoltage release voltage trigger trip indicator height [in] height [in] width [in] width [in] depth [in] 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	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
undervoltage release voltage trigger trip indicator height [in] height [in] 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	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
undervoltage release voltage trigger trip indicator height [in] height [in] width [in] width [in] 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	No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm
undervoltage release voltage trigger trip indicator height [in] height [in] width [in] 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	No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm
 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 / 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) 	No 7.13 in 181 mm 5.51 in 140 mm 3.39 in 86 mm
 undervoltage release voltage trigger trip indicator height [in] height [in] 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 / 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 	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
 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 connector / 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 / 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 	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
 undervoltage release voltage trigger trip indicator height [in] height [in] 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 Accessories	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 0
 undervoltage release voltage trigger trip indicator height [in] height [in] 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 Accessories product extension / optional / motor drive 	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 0
 undervoltage release voltage trigger trip indicator height [in] height [in] width depth [in] 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 Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front	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 yes
undervoltage release voltage trigger trip indicator height [in] height [in] width [in] width [in] width [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connectors / 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 Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature	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 Understand Yes IP40
 undervoltage release voltage trigger trip indicator height [in] height width [in] width [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connectors / 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 Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature during operation / minimum 	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 tin Yes IP40 -25 °C
 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 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 Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature during operation / maximum 	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 tin Yes IP40 -25 °C 70 °C
 undervoltage release voltage trigger trip indicator height [in] height width [in] width [in] depth Connections arrangement of electrical connectors / for main current circuit type of electrical connectors / 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 Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature during operation / minimum 	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 tin Yes IP40 -25 °C

Certificates						
reference code / accor	0	Q				
General Product App	proval				EMC	
<u>Confirmation</u>		VDE	<u>Miscellaneous</u>	EHC	RCM	
Declaration of Confo	ormity	Test Certificates			Marine / Shipping	
UK CA	CE EG-Konf.	Miscellaneous	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping				other		
BUREAU VERITAS		RMRS	<u>CCS / China Classific-</u> ation Society	<u>Miscellaneous</u>	<u>Confirmation</u>	
other	Dangerous Good	Environment				
Miscellaneous	Transport Information	Environmental Con- firmations				
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 <u>https://support.industry.siemens.com/cs/ww/en/view/109813875</u> Information- and Downloadcenter (Catalogs, Brochures)						
	m/loadcenter (Catalogs, E m/lowvoltage/catalogs	brochures,)				

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2025-8HL42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA2025-8HL42-0AA0

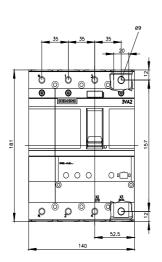
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2025-8HL42-0AA0

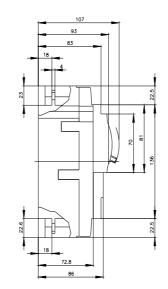
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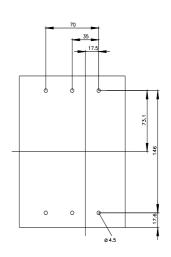
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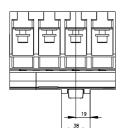
Tender specifications

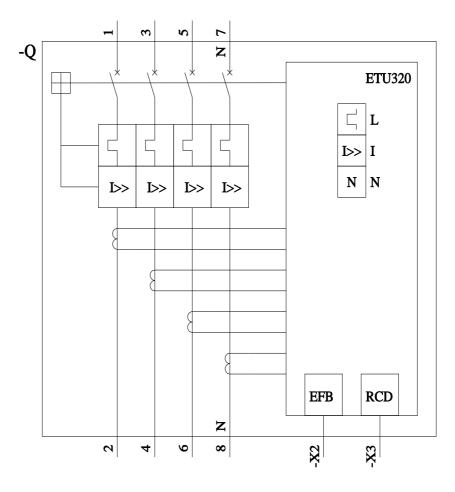
http://www.siemens.com/specifications











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