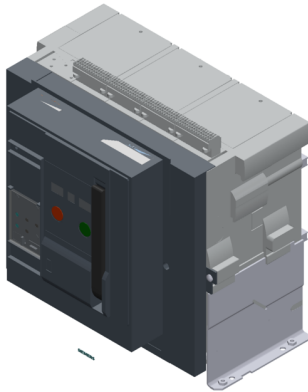


Siemens
EcoTech



Fixed-mounted circuit breaker IEC 60947-2, frame size 2, 3-poles, $I_n=2500A$ up to 690V AC 50/60Hz, breaking capacity S $I_{cu}=66/50kA$ at 500/690V, Trip unit ETU300 LSI optimized for standard applications, without display Protection LT, ST, INST, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), rear connection horizontal, without Com & metering function Manual operating mechanism with mechanical closing, without Spring charging motor, Ready-to-close signal. switch, Auxiliary switches 2NO+2NC, without Closing coil (CC), manual operating mechanism with mechanical closing, without Remote trip alarm reset coil (RR), Undervoltage release (UVR) instantaneous (0,08 s) and short-delay (0,2 s), 208-240 V AC / 220-250 V DC, without 1st Shunt trip Option T40 = Door sealing frame IP41

Model	
product brand name	SENTRON
product designation	Air circuit breaker
suitability for use	circuit breaker
size of the circuit-breaker	II
number of poles	3
position / of neutral conductor	no internal N-conductor
fastening method	fixed-mounted circuit breakers
design of the product	AC application
type of the driving mechanism	manual operating mechanism with mechanical or electrical closing
design of the electronic trip unit	ETU300 LSI
Weight	57.956 kg
Net Weight	44.956 kg
General technical data	
insulation voltage / rated value	1000 V
operating voltage / at AC / at 50/60 Hz / rated value	690 V
power loss [W] / maximum	270 W
Current	
continuous current / rated value / maximum	2500 A
continuous current / rated value	2500 A
operational current	
• at 40 °C / rated value	2500 A
• at 45 °C / rated value	2500 A
• at 50 °C / rated value	2500 A
• at 55 °C / rated value	2500 A
• at 60 °C / rated value	2500 A
• at 65 °C / rated value	2500 A
• at 70 °C / rated value	2500 A
Switching capacity and short-time withstand current, according to IEC 60947-2	
switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity (I_{cu})	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
operating short-circuit current breaking capacity (I_{cs})	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
short-circuit current making capacity (I_{cm})	






<ul style="list-style-type: none"> • at 500 V / rated value • at 690 V / rated value 	<p>145 kA</p> <p>105 kA</p>
<p>short-time withstand current (I_{cw}) / at 500 V AC</p> <ul style="list-style-type: none"> • for 0.5 s / rated value • for 1 s / rated value • for 2 s / rated value • for 3 s / rated value 	<p>66 kA</p> <p>66 kA</p> <p>66 kA</p> <p>55 kA</p>
<p>short-time withstand current (I_{cw}) / at 690 V AC</p> <ul style="list-style-type: none"> • for 0.5 s / rated value • for 1 s / rated value • for 2 s / rated value • for 3 s / rated value 	<p>50 kA</p> <p>50 kA</p> <p>50 kA</p> <p>50 kA</p>

Electronic release unit

<p>product feature</p> <ul style="list-style-type: none"> • upgradable • Bluetooth and USB interface • decoder for basic protection functions • display and function keys • SENTRON powerconfig configuration software 	<p>No</p> <p>No</p> <p>Yes</p> <p>No</p> <p>No</p>
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Basic protection functions

<p>product feature / for L-tripping</p> <ul style="list-style-type: none"> • can be switched on/off • selectable characteristic function • decoder and infinite adjustability are selectable with eSet 	<p>No</p> <p>No</p> <p>No</p>
<p>set values setting current (I_r) / for L-tripping / with I_{2t} characteristic</p>	<p>0.4;0.5;0.6;0.7;0.75;0.8;0.85;0.9;0.95;1.0</p>
<p>reference value setting current (I_r) / for L-tripping / with I_{2t} characteristic</p>	<p>x I_n</p>
<p>set values delay time (t_r) / for L-tripping / with I_{2t} characteristic</p>	<p>0.75;1;2;5;8;10;14;17;21;25</p>
<p>reference value delay time (t_r) / for L-tripping / with I_{2t} characteristic</p>	<p>s</p>
<p>L: Overload protection N-conductor</p>	
<p>product feature / with neutral conductor protection / can be switched on/off</p>	<p>No</p>
<p>setting values setting current (I_{nN}) / for N-tripping</p>	<p>1</p>
<p>reference value setting current (I_{nN}) / for N-tripping</p>	<p>x I_n</p>
<p>S: delayed short-circuit protection ST</p>	
<p>product feature / for S-tripping</p> <ul style="list-style-type: none"> • independent of direction / can be switched on/off • independent of direction / selectable characteristic function • decoder and infinite adjustability are selectable with eSet 	<p>Yes</p> <p>Yes</p> <p>No</p>
<p>S: delayed short-circuit protection ST, settings values I_{0t}</p>	
<p>set values setting current (I_{sd}) / for S-tripping / with I_{0t} characteristic</p>	<p>1.5;2;2.5;3;4;5;6;8;10</p>
<p>reference value setting current (I_{sd}) / for S-tripping / with I_{0t} characteristic</p>	<p>x I_r</p>
<p>set values delay time (t_{sd}) / for S-tripping / with I_{0t} characteristic</p>	<p>0.08;0.15;0.22;0.3;0.4</p>
<p>reference value delay time (t_{sd}) / for S-tripping / with I_{0t} characteristic</p>	<p>s</p>
<p>S: delayed short-circuit protection ST, settings values I_{2t}</p>	
<p>set values setting current (I_{sd}) / for S-tripping / with I_{2t} characteristic</p>	<p>1.5;2;2.5;3;4;5;6;8;10</p>
<p>reference value setting current (I_{sd}) / for S-tripping / with I_{2t} characteristic</p>	<p>x I_r</p>
<p>set values delay time (t_{sd}) / for S-tripping / with I_{2t} characteristic</p>	<p>0.08;0.15;0.22;0.3;0.4</p>
<p>product feature / for I-tripping</p> <ul style="list-style-type: none"> • can be switched on/off • decoder and infinite adjustability are selectable (with eSet) 	<p>No</p> <p>No</p>
<p>set values setting current (I_i) / for I-tripping</p>	<p>1.5;2;3;4;5;6;8;10;12;15</p>
<p>reference value setting current (I_i) / for I-tripping</p>	<p>x I_n</p>
<p>G: ground fault GF</p>	
<p>product feature / for G-tripping</p>	

• selectable characteristic function	No		
Further protective functions			
protection function			
• maintenance mode DAS+	Yes		
Measuring functions			
measurement function			
• current measurement	Yes		
Communication			
communication function	No		
Service Life			
mechanical service life (operating cycles)			
• without support / typical	10000		
• with support / typical	20000		
electrical endurance (operating cycles)			
• at 690 V / without support / typical	7500		
• at 690 V / with support / typical	20000		
Dimensions			
height	437 mm		
width	460 mm		
depth	357 mm		
Main connection			
arrangement of electrical connectors / for main current circuit	main connection on the rear, horizontal		
Auxiliary circuit			
design of the auxiliary switch	2 NO + 2 NC		
number of NC contacts / for auxiliary contacts	2		
number of NO contacts / for auxiliary contacts	2		
number of CO contacts / for auxiliary contacts	0		
Internal accessories			
product component			
• undervoltage release	Yes		
• voltage trigger	No		
• trip indicator	Yes		
• motor drive	No		
Environmental conditions			
protection class IP / on the front	IP41		
ambient temperature / during operation			
• minimum	-40 °C		
• maximum	70 °C		
ambient temperature / during storage			
• minimum	-40 °C		
• maximum	80 °C		
Environmental footprint			
Siemens Eco Profile (SEP)	Siemens EcoTech		
Certificates			
reference code			
• according to IEC 81346-2	Q		
General Product Approval		EMV	Radio Equipment Type Approval Certificate
			
CCC	EG-Konf.		
			RCM
			Miscellaneous
Test Certificates	Maritime application	other	

[Miscellaneous](#)

[Special Test Certificate](#)



[Confirmation](#)

other

Dangerous goods

Environment



[Manufacturer Declaration](#)

[Transport Information](#)



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Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1225-3AB02-0AQ0-Z T40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1225-3AB02-0AQ0-Z T40>

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

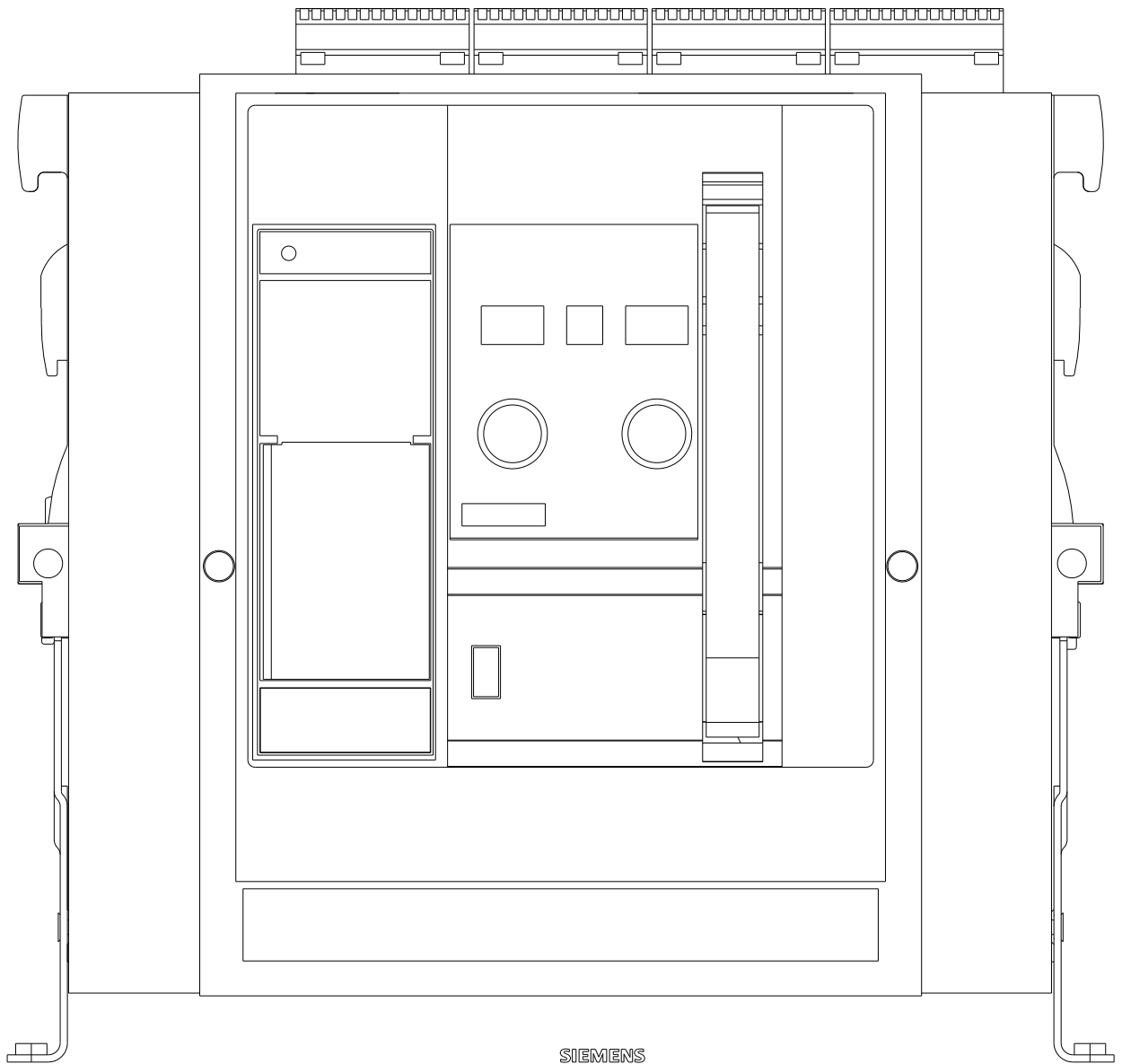
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1225-3AB02-0AQ0-Z T40

CAX-Online-Generator

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

Information- and Downloadcenter (catalogues, leaflets,...)

<http://www.siemens.com/energy-automation>



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