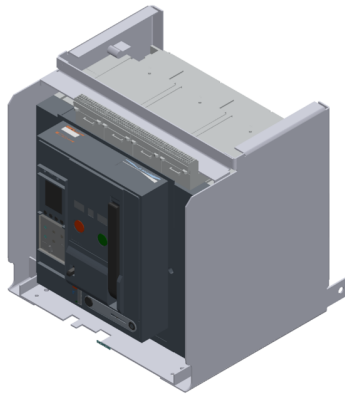


Siemens
EcoTech



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 2, 3-poles, In=2500A up to 690V AC 50/60Hz, breaking capacity S Icu=66/50kA at 500/690V, Trip unit ETU600 LSI upgrade ready, color display, bluetooth and USB interface, Protection LT, ST, INST, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), rear connection flange, guide frame with shutter and w/o position signalling switch, without Com & metering function with manual and motorized operating mechanism (M) 208-240 V AC / 220-250 V DC, Storage status and ready-to-close signalling switches, Auxiliary switches 2NO+2NC, Closing coil (CC) 100% OP 208-240 V AC / 220-250 V DC, applicable for continuous duty, without Remote trip alarm reset coil (RR), without 2nd shunt trip, Shunt trip (ST) 100% OP 208-240 V AC / 220-250 V DC, suitable for continuous duty, option D85 = ETU600 without backup battery type TADIRAN SL-350 size 1/2 AA required for internal clock. No restrictions on the protection functions. 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	withdrawable circuit breaker
design of the product	AC application
type of the driving mechanism	manual operating mechanism/spring charging motor with spring charge signalling switch
design of the electronic trip unit	ETU600 LSI
Weight	95.881 kg
Net Weight	82.881 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	520 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 70 °C / rated value	2280 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 (Icu)	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
operating short-circuit current breaking capacity (Ics)	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
short-circuit current making capacity (Icm)	

<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>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</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>Yes</p> <p>Yes</p> <p>Yes</p>
<p>set values setting current (I_r) / for L-tripping / with I_{2t} characteristic</p>	<p>0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1</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>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>set values setting current (I_r) / for L-tripping / with I_{2t} characteristic / for eSet</p>	<p>0.4-1;0.001</p>
<p>adjustable absolute value setting current (I_r) / for L-tripping / with I_{2t} characteristic / for eSet</p> <ul style="list-style-type: none"> • minimum • maximum 	<p>1000 A</p> <p>2500 A</p>
<p>set values delay time (t_r) / for L-tripping / with I_{2t} characteristic / for eSet</p>	<p>0.5-30;0.001</p>
<p>set values setting current (I_r) / for L-tripping / with I_{4t} characteristic / for eSet</p>	<p>0.4-1;0.001</p>
<p>set values delay time (t_r) / for L-tripping / with I_{4t} characteristic / for eSet</p>	<p>0.5-5;0.001</p>
<p>adjustable absolute value setting current (I_r) / for L-tripping / with I_{4t} characteristic / for eSet</p> <ul style="list-style-type: none"> • minimum • maximum 	<p>1000 A</p> <p>2500 A</p>

L: Overload protection N-conductor

<p>product feature / with neutral conductor protection / can be switched on/off</p>	<p>Yes</p>
<p>setting values setting current (I_{nN}) / for N-tripping</p>	<p>0.2-2;0.001</p>
<p>reference value setting current (I_{nN}) / for N-tripping</p>	<p>x I_n</p>
<p>adjustable setting current (I_{nN}) / for N-tripping</p> <ul style="list-style-type: none"> • minimum • maximum 	<p>500 A</p> <p>5000 A</p>















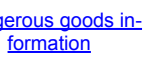



S: delayed short-circuit protection ST

<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>Yes</p>
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S: delayed short-circuit protection ST, settings values I_{0t}

<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>
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reference value setting current (I _{sd}) / for S-tripping / with I0t characteristic	x I _r
set values delay time (tsd) / for S-tripping / with I0t characteristic	0.08;0.15;0.22;0.3;0.4
reference value delay time (tsd) / for S-tripping / with I0t characteristic	s
set values setting current (I _{sd}) / for S-tripping / with I0t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (I _{sd})	
• for S-tripping / with I0t characteristic / for eSet / independent of direction / minimum	1500 A
• at 500 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum	52.8 kA
• at 690 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum	40 kA
set values delay time (tsd) / for S-tripping / with I0t characteristic / for eSet / independent of direction	0.02-0.4;0.001
S: delayed short-circuit protection ST, settings values I2t	
set values setting current (I _{sd}) / for S-tripping / with I2t characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (I _{sd}) / for S-tripping / with I2t characteristic	x I _r
set values delay time (tsd) / for S-tripping / with I2t characteristic	0.1;0.2;0.3;0.4
set values setting current (I _{sd}) / for S-tripping / with I2t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (I _{sd})	
• for S-tripping / with I2t characteristic / for eSet / independent of direction / minimum	1500 A
• at 500 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum	52.8 kA
• at 690 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum	40 kA
set values delay time (tsd) / for S-tripping / with I2t characteristic / for eSet / independent of direction	0.02-0.4; 0.001
product feature / for I-tripping	
• can be switched on/off	Yes
• decoder and infinite adjustability are selectable (with eSet)	Yes
set values setting current (I _i) / for I-tripping	1.5;2;3;4;6;8;10;12;15
reference value setting current (I _i) / for I-tripping	x I _n
tripping factor setting current (I _{imax}) / for I-tripping	0.8
reference value setting current (I _{imax}) / for I-tripping	x I _{cs}
set values setting current (I _i) / for I-tripping / for eSet	1.5-15;0.001
adjustable absolute value setting current (I _i)	
• for I-tripping / for eSet / minimum	3750 A
• at 500 V / for I-tripping / for eSet / maximum	52.8 kA
• at 690 V / for I-tripping / for eSet / maximum	40 kA
G: ground fault GF	
product feature / for G-tripping	
• 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	468 mm	
width	460 mm	
depth	471 mm	
Main connection		
arrangement of electrical connectors / for main current circuit	main connection, connecting flange	
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	No	
• voltage trigger	Yes	
• trip indicator	Yes	
• motor drive	Yes	
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	
Approvals / Certificates		
General Product Approval		
EMV		
     		
Radio Equipment Type Approval Certificate	Test Certificates	Maritime application
Miscellaneous	Miscellaneous	Special Test Certificate
		
		
Maritime application	other	Dangerous goods
Manufacturer Declaration	Confirmation	Dangerous goods information
		
Dangerous goods	Environment	
Transport Information		
		

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1225-3AE34-4EA4-Z D85+T40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1225-3AE34-4EA4-Z D85+T40>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1225-3AE34-4EA4-Z D85+T40

CAX-Online-Generator

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

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

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

