

draw-out molded case circuit breaker with guide frame and PSS frame 1600; with RTC and 4AUX trip alarm switch S24; Icu "H" Icu=85kA @ 415V, 3-pole ETU650, LSI, In=1250A display, meas., comm. function Ir=500...1250A Isd=0.6...10xIn, li=1.5...15xIn N conductor protec. adjustable opt. w. ext. CT; up to 200% rear vertical connection With optional communication connection including integrated breaker connect 24 V DC module, actuator COM ACT, COM RTC and COM PSS(as draw-out version) No measurement function Manual operating mechanism of the spring energy store With electr. and mech. calling Switch-on solenoid (CC) 24 V AC/DC without 2nd auxiliary release with 1st auxiliary release, ST Shunt release 24 V AC/DC

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	MCCB
design of the actuating element	spring actuator
type of the driving mechanism	without motor drive
type of the driving mechanism / motor drive	No
design of the overcurrent release	ETU650
General technical data	
number of poles	3
size of the circuit-breaker	1600 A
mechanical service life (operating cycles) / typical circuit-breaker / Design	10 000 3VA2
Voltage	
insulation voltage / rated value	1 000 V
operating voltage / at AC / at 50/60 Hz / rated value	690 V
protection class IP	IP20
protection class IP / on the front	IP20
protection function of the overcurrent release	LSI
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	86 W
Current	
operational current	
• at 40 °C / rated value	1 250 A
• at 45 °C / rated value	1 250 A
• at 50 °C / rated value	1 250 A
• at 55 °C / rated value	1 250 A
• at 60 °C / rated value	1 192 A
• at 65 °C / rated value	1 131 A
• at 70 °C / rated value	1 066 A
continuous current / rated value	1 250 A
adjustable current response value current	
• of the current-dependent overload release / full-scale value	1 250 A
• of instantaneous short-circuit trip unit / minimum	1 875 A
• of instantaneous short-circuit trip unit / maximum	18 750 A
short-time withstand current (Icw)	
• limited to 1 s / rated value	20 kA
• at AC / at 415 V / limited to 0.5 s / rated value	20 kA
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	4
Suitability	
suitability for use	system protection
Adjustable parameters	
adjustable current response value current	

• of the short-time delayed short-circuit release / initial value	750 A
• of the short-time delayed short-circuit release / full-scale value	12 500 A
• of the L-trip / with I _{Δt} characteristic / initial value	0.4 A
• of the L-trip / with I _{Δt} characteristic / full-scale value	1 A
adjustable current response value current / of the current-dependent overload release / initial value	500 A
product component	
• trip indicator	Yes
• voltage trigger	Yes
• undervoltage release	No
product extension / optional / motor drive	Yes

Product function

product function	
• grounding protection	No
• phase failure detection	Yes

Display and operation

display version	With full graphics display
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Short circuit

operating short-circuit current breaking capacity (I _{cs})	
• at 415 V / rated value	85 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	36 kA
maximum short-circuit current breaking capacity (I _{cu})	
• at 415 V / rated value	85 kA
• at 440 V / rated value	85 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	36 kA

Connections

arrangement of electrical connectors / for main current circuit	Main connection rear vertical
type of electrical connection / for main current circuit	busbar connection

Mechanical Design

height	364 mm
width	278 mm
depth	271 mm
fastening method	drawer unit
net weight	38 kg

Environmental conditions

ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °C

General Product Approval	EMC	Declaration of Conformity
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[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
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[Miscellaneous](#)



other			Dangerous Good	
Environmental Con- firmations	Miscellaneous	Miscellaneous	Dangerous Goods Information	Transport Informa- tion

Further information

- Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-2BE31-0BA1>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-2BE31-0BA1>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-2BE31-0BA1
- CAX-Online-Generator
<http://www.siemens.com/cax>
- Tender specifications
<http://www.siemens.com/specifications>



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