

fixed-mounted molded case circuit breaker frame 1600; with RTC and 4AUX trip alarm switch S24; Icu="H" Icu=85kA @ 415V, 3-pole ETU660, LSIG, In=1600A display, meas., comm. function Ir=640...1600A I_{sd}=0.6...10xIn, Ii=1.5...15xIn N conductor protec. adjustable opt. w. ext. CT; up to 200% gr.-fault prot., can be sw. off I_g=0.1...1 x In, t_g=0.1 - 1.0s front bus connector offset With optional communication connection including integrated breaker connect 24 V DC module, actuator COM ACT, COM RTC and COM PSS(as draw-out version) with Metering MF Advanced for enhanced protection Voltage tap at the top Manual operating mechanism of the spring energy store With mechanical calling without 2nd auxiliary release without 1st auxiliary release F12= Communication module COM042 Modbus RTU Gateway

Model	
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	ETU660
General technical data	
number of poles	3
mechanical service life (operating cycles) / typical	10 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	2 000
insulation voltage / rated value	1 000 V
operational current	
• at 45 °C / rated value	1 600 A
continuous current / rated value / maximum	1 600 A
Supply voltage	
operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Protection class	
protection class IP / on the front	IP20
Breaking Capacity	
switching capacity class of the circuit breaker	H
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	77 W
• maximum	231 W
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	960 A
• full-scale value	16 000 A
adjustable current response value current / of the L-trip / with I4t characteristic	
• initial value	0.4 A
• full-scale value	1 A
adjustable current response value current / of the current-dependent overload release / initial value	640 A
Product details	
product component	
• trip indicator	Yes

• voltage trigger	No
• undervoltage release	No
product extension / optional / motor drive	Yes
Product function	
product function	
• grounding protection	Yes
• communication function	Yes
• phase failure detection	Yes
Display and operation	
display version	With full graphics display
Short circuit	
operating short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	150 kA
• 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
maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	150 kA
• 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
short-circuit current making capacity (Icm)	
• at 240 V / rated value	330 kA
• at 415 V / rated value	187 kA
• at 440 V / rated value	187 kA
• at 500 V / rated value	121 kA
• at 690 V / rated value	76 kA
Connections	
arrangement of electrical connectors / for main current circuit	Main connection at front, rail widening included
type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
height	296 mm
width	210 mm
depth	183 mm
fastening method	fixed mounting
Net Weight	24.24 kg
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °C
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	
Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/lowvoltage/catalogs	
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2716-2FF06-0AA0-Z_F12	
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA2716-2FF06-0AA0-Z_F12	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2716-2FF06-0AA0-Z_F12	
CAX-Online-Generator https://www.siemens.com/cax	
Tender specifications https://www.siemens.com/specifications	

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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