

circuit breaker VL1600H high breaking capacity $I_{cu}=70kA$, 415V AC 4-pole, line protection trip unit ETU10, LIN $I_n=1600A$, rated current $I_R=640...1600A$, overload protection, $I_l=1.25$ to $9 \times I_n$, short-circuit protection N protected without auxiliary release ETU communication-capable without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	ETU10
General technical data	
number of poles	4
size of the circuit-breaker	3VL8
mechanical service life (operating cycles) typical	3 000
electrical endurance (operating cycles) typical	1 500
utilization category	A
performance class for circuit breaker	N
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	Q
operating frequency maximum	30 1/s
Voltage	
Rated operational voltage U_e max.	690 V
<ul style="list-style-type: none"> insulation voltage rated value insulation voltage (U_i) at AC rated value 	800 V
surge voltage resistance rated value	8 kV
operating voltage <ul style="list-style-type: none"> rated value maximum for main current circuit at AC at 50 Hz maximum for main current circuit at AC at 60 Hz maximum 	690 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LIN
Main circuit	
operating frequency <ul style="list-style-type: none"> 1 rated value 2 rated value 	50 Hz
	60 Hz
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Suitability	
suitability for use	system protection
Adjustable parameters	
adjustable current response value current of the current-dependent overload release initial value	640 A
Product details	
product component <ul style="list-style-type: none"> trip indicator auxiliary switch voltage trigger undervoltage release undervoltage release with leading contact 	No
	No
	No
	No
	No
product extension optional motor drive	Yes
Product function	
product function <ul style="list-style-type: none"> of thermal overload trip unit 	adjustable

• grounding protection	No
• for neutral conductors short-circuit and overload proof	Yes
• overload protection	Yes

Short circuit

operating short-circuit current breaking capacity (Ics)	
• at 240 V rated value	50 kA
• at 415 V rated value	35 kA
• at 500 V rated value	30 kA
• at 690 V rated value	15 kA
maximum short-circuit current breaking capacity (Icu)	
• at 240 V rated value	100 kA
• at 415 V rated value	70 kA
• at 440 V rated value	50 kA
• at 480 V according to NEMA rated value	50 kA
• at 500 V rated value	40 kA
• at 600 V according to NEMA rated value	30 kA
• at 690 V rated value	30 kA

Connections

arrangement of electrical connectors for main current circuit	front side
type of connectable conductor cross-sections for auxiliary contacts	
• solid	0.75 ... 1.5 mm ²
• finely stranded with core end processing	0,75 ... 1.0 mm ²
type of electrical connection for main current circuit	without connection accessoires





Mechanical Design

height	406.5 mm
width	305 mm
depth	333.5 mm
fastening method	fixed mounting

Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	80 °C

Approvals Certificates

General Product Approval		Test Certificates	Marine / Shipping
Miscellaneous	Confirmation		
		Special Test Certificate	
Marine / Shipping	other	Environment	
	Miscellaneous	Confirmation	Miscellaneous
			Environmental Confirmations

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

Information- and Downloadcenter (Catalogs, Brochures,...)
<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL8716-2NA40-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL8716-2NA40-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL8716-2NA40-0AA0

CAX-Online-Generator

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

Tender specifications

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

last modified:

12/23/2020 