

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_I=1.25 to 9 xI_N, short-circuit protection N protected without auxiliary release 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

<ul style="list-style-type: none">• grounding protection• for neutral conductors short-circuit and overload proof• overload protection	No Yes Yes				
Short circuit					
operating short-circuit current breaking capacity (Ics) <ul style="list-style-type: none">• at 240 V rated value• at 415 V rated value• at 500 V rated value• at 690 V rated value	50 kA 35 kA 30 kA 15 kA				
maximum short-circuit current breaking capacity (Icu) <ul style="list-style-type: none">• at 240 V rated value• at 415 V rated value• at 440 V rated value• at 480 V according to NEMA rated value• at 500 V rated value• at 600 V according to NEMA rated value• at 690 V rated value	100 kA 70 kA 50 kA 50 kA 40 kA 30 kA 30 kA				
Connections					
arrangement of electrical connectors for main current circuit	front side				
type of connectable conductor cross-sections for auxiliary contacts <ul style="list-style-type: none">• solid• finely stranded with core end processing	0.75 ... 1.5 mm² 0,75 ... 1.0 mm²				
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 <ul style="list-style-type: none">• minimum• maximum	-25 °C 70 °C				
ambient temperature during storage <ul style="list-style-type: none">• minimum• maximum	-40 °C 80 °C				
Approvals Certificates					
General Product Approval	Test Certificates	Marine / Shipping			
 CCC	Confirmation		Special Test Certificate	 DNV	 RINA
Marine / Shipping	other	Dangerous goods	Environment		
 RMRS	Confirmation	Miscellaneous	Miscellaneous	Transport Information	Environmental Confirmations
Environment					
Environmental Confirmations					
Further information					
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=3VL8716-2TA40-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL8716-2TA40-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL8716-2TA40-0AA0

CAX-Online-Generator

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

Tender specifications

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

last modified:

6/17/2023 

