

circuit breaker VL1600N standard breaking capacity I_{cu}=55kA, 415V AC 3-pole, line protection trip unit ETU12, LIG 3 phases/3 lines I_n=1600A, rated current IR=640...1600A, overload protection, II=1.25 to 9 xI_N, short-circuit protection without auxiliary release without auxiliary/alarm switch

Model	
type of the driving mechanism motor drive	No
design of the overcurrent release	ETU12
General technical data	
number of poles	3
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	LIG
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	Yes No 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	35 kA 28 kA 20 kA 10 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	65 kA 55 kA 35 kA 25 kA 25 kA 20 kA 20 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	228.5 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	
Confirmation  	Special Test Certificate  		
Marine / Shipping	other	Dangerous goods	Environment
	Miscellaneous Confirmation	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=3VL8716-1SL30-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VL8716-1SL30-0AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL8716-1SL30-0AA0

CAX-Online-Generator

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

Tender specifications

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

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