Data sheet

3VL2706-1DK36-0AA0

circuit breaker VL160N standard breaking capacity Icu=55kA, 415V AC 3-pole, starter combination Trip Unit magnetic In=63A, rated current II=450...900A, short-circuit protection, with screw terminals without auxiliary release without auxiliary/alarm switch

ype of the driving mechanism motor drive ediagin of the orecurrent release M Control technical data number of poles 3 3 31/2 mechanical service life (perating cycles) typical electrical endurance (perating cycles) typical utilization category A performance dass for circuit breaker N reference code according to IEC 780 performance dass for circuit breaker Reference code according to IEC 780 perating frequency maximum 120 tis Vottage Readed operational voitage Ue max. 680 V - insulation voitage the max insulation voitage Ue max insulation voitage (U) at AC rated value - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz at 50 Hz maximum - for main current circuit at AC at 50 Hz at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main current circuit at AC at 50 Hz maximum - for main	Model	
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utilization category performance class for circuit breaker Reference code according to DIN 40719 extended according to IEC 264-2 according to DIN 40719 extended according to IEC 264-2 according to DIN 40719 extended according to IEC 264-2 according to IEC 2670 perating frequency maximum Voltago Rated operational voltage Ue max. insulation voltage rated value insulation voltage value insulation value	mechanical service life (operating cycles) typical	20 000
performance class for circuit breaker reference code according to DIN 40719 extended according to IEC 204-2 according to ECP Voltage Particle of Particle Voltage Rated operational voltage Ue max. 690 V insulation voltage rated value insulation voltage rated value insulation voltage reted value insulation voltage (I/i) at AC rated value 800 V surge voltage resistance rated value 900 V for main current circuit at AC at 50 Hz maximum for a Maximum for main current circuit at AC at 50 Hz maximum for at 400 V rated value for Hz for according frequency for according frequency for at 400 V rated value for Hz for according frequency for according fre	electrical endurance (operating cycles) typical	10 000
reference code according to DIN 40719 extended according to IEC 2042 according to IEC 750 operating frequency maximum 120 1/s Votago Rated operational vottage Ue max. 690 V • insulation vottage rated value 800 V • insulation vottage rated value 800 V surge voltage resistance rated value 800 V for main current circuit at AC at 50 Hz maximum 690 V • for main current circuit at AC at 50 Hz maximum 690 V • for main current circuit at AC at 60 Hz maximum 690 V • for main current circuit at AC at 60 Hz maximum 690 V • for main current circuit at AC at 60 Hz maximum 690 V Protection class IP protection curton of the overcurrent release IP20 Main circuit operating frequency • 1 rated value 50 Hz • 2 rated value 50 Hz • 2 rated value 60 Hz operating power at AC-3 • at 230 V rated value 34.9 kW Auxillary circuit number of CO contacts for auxillary contacts 0 number of NO contacts for auxillary contacts NO • auxillary switch NO • auxillary switch NO • auxillary switch NO • undervoltage release with leading contact NO product extension optional motor drive Yes	utilization category	A
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Insulation voltage (UI) at AC rated value surge voltage resistance rated value operating voltage Insulation voltage (UI) at AC at 50 Hz maximum Insulation voltage (UI) at AC at 50 Hz maximum Insulation voltage (UI) at AC at 60 Hz maximum Insulation voltage (UI) at AC		
surge voltage resistance rated value operating voltage • rated value maximum • for main current circuit at AC at 50 Hz maximum • for main current circuit at AC at 60 Hz maximum • for main current circuit at AC at 60 Hz maximum • for main current circuit at DC maximum • for main current circuit at DC maximum • for main current circuit at DC maximum • soo v Protection class protection class IP protection function of the overcurrent release I Main circuit operating frequency • 1 rated value • 2 rated value • 2 rated value • 2 rated value operating power at AC-3 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value Outside of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 Sultability suitability suitability suitability suitability for use Starter protection Product details product component • trip indicator • voltage release • undervoltage release • undervoltage release with leading contact No product extension optional motor drive Yes	 insulation voltage rated value 	800 V
operating voltage • rated value maximum • for main current circuit at AC at 50 Hz maximum • for main current circuit at AC at 60 Hz maximum • for main current circuit at DC maximum • for main current circuit at DC maximum • for main current circuit at DC maximum • 500 V Protection class protection function of the overcurrent release I Main circuit operating frequency • 1 rated value • 2 rated value • 2 rated value • 34.9 kW Auxiliary circuit number of NC contacts for auxiliary contacts product datails product component • trip indicator • auxiliary switch • voltage release • undervoltage release	• insulation voltage (Ui) at AC rated value	800 V
• rated value maximum • for main current circuit at AC at 50 Hz maximum • for main current circuit at AC at 60 Hz maximum • for main current circuit at AC at 60 Hz maximum • for main current circuit at DC maximum • 500 V Protection class protection class IP protection function of the overcurrent release I Main circuit operating frequency • 1 rated value • 2 rated value • 2 rated value • 2 rated value • 34 9 KW Auxiliary circuit number of CC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 0 Sultability suitability for use Starter protection Product details product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage releas	surge voltage resistance rated value	8 kV
for main current circuit at AC at 50 Hz maximum 690 V for main current circuit at AC at 60 Hz maximum 500 V for main current circuit at DC maximum 500 V Protection class protection class IP IP20 protection function of the overcurrent release I I Main circuit operating frequency 1 rated value 50 Hz 2 rated value 60 Hz operating power at AC-3 at 230 V rated value 11.6 kW at 400 V rated value 34.9 kW Auxiliary circuit number of CO contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 suitability suitability or use Starter protection Product details product component trip indicator No auxiliary switch No voltage trigger No undervoltage release with leading contact No product extension optional motor drive Yes	operating voltage	
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Protection class IP protection function of the overcurrent release I Main circuit operating frequency 1 rated value 50 Hz 2 rated value 60 Hz operating power at AC-3 11.6 kW at 400 V rated value 11.6 kW 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 Product details product component 1 trip indicator 1 trip indicator 1 undervoltage release 1 undervoltage release 1 trip indicator 1 No 1 undervoltage release 1 Indicator 2 Indicator 3 Indicator 3 Indicator 3 Indicator 4 Indicator 5 Indicator 6 Indicator 7 Indicator 7 Indicator 8 Indicator 8 Indicator 8 Indicator 9 Indica	 for main current circuit at AC at 60 Hz maximum 	690 V
protection class IP protection function of the overcurrent release I Main circuit operating frequency	 for main current circuit at DC maximum 	500 V
protection function of the overcurrent release Main circuit	Protection class	
Main circuit operating frequency • 1 rated value • 2 rated value • 60 Hz operating power at AC-3 • at 230 V rated value • at 400 V rated value 11.6 kW Auxiliary circuit number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 Suitability suitability for use Product details product component • trip indicator • auxiliary switch • voltage trigger • No • undervoltage release • undervoltage release • undervoltage release with leading contact No product extension optional motor drive Yes	protection class IP	IP20
operating frequency	protection function of the overcurrent release	1
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operating power at AC-3 • at 230 V rated value • at 400 V rated value Auxiliary circuit number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 Suitability suitability suitability for use Product details product component • trip indicator • trip indicator • uxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive Yes	• 1 rated value	50 Hz
at 230 V rated value at 400 V rated value 34.9 kW Auxiliary circuit number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 Suitability suitability for use Starter protection Product details product component • trip indicator • trip indicator • auxiliary switch • voltage trigger No • undervoltage release No • undervoltage release with leading contact product extension optional motor drive Yes	• 2 rated value	60 Hz
at 400 V rated value Auxiliary circuit number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 Suitability suitability suitability for use Product details product component at rip indicator auxiliary switch voltage trigger undervoltage release undervoltage release with leading contact product extension optional motor drive 34.9 kW No No No No No No No No Voltage trigger No No Voltage trigger No Voltage trigger No Voltage trigger Voltage release with leading contact No Product extension optional motor drive Yes	operating power at AC-3	
Auxiliary circuit number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 Suitability suitability for use Product details product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive O O O O O O O O O O O O O	 at 230 V rated value 	11.6 kW
number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 Suitability suitability for use Product details product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive 0 Starter protection No No No No No No Voltage trigger No Voltage release with leading contact No Product extension optional motor drive Yes	 at 400 V rated value 	34.9 kW
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Suitability suitability for use Product details product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive 0 Starter protection No No No No No No No No • undervoltage release with leading contact No Product extension optional motor drive No No No No No No No No No N	Auxiliary circuit	
number of NO contacts for auxiliary contacts Suitability suitability for use Product details product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive Starter protection No No No No No No Voltage trigger No Voltage trigger No Voltage trigger Voltage release Voltage release with leading contact No Product extension optional motor drive Yes	number of CO contacts for auxiliary contacts	0
Suitability suitability for use Product details product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive Starter protection No No No No • undervoltade release No product extension optional motor drive Starter protection	number of NC contacts for auxiliary contacts	0
suitability for use Product details product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive Starter protection No No No No No Voltage trigger No Voltage trigger No Voltage release with leading contact No Product extension optional motor drive Yes	number of NO contacts for auxiliary contacts	0
Product details product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive No Yes	Suitability	
product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive No Volume of the trip indicator No No Voltage trigger No Voltage release with leading contact No Yes	suitability for use	Starter protection
 trip indicator auxiliary switch voltage trigger undervoltage release undervoltage release with leading contact product extension optional motor drive No Yes	Product details	
 auxiliary switch voltage trigger undervoltage release undervoltage release with leading contact product extension optional motor drive No Yes	product component	
 voltage trigger undervoltage release undervoltage release with leading contact product extension optional motor drive No Yes	• trip indicator	No
 undervoltage release undervoltage release with leading contact product extension optional motor drive No Yes 	auxiliary switch	No
• undervoltage release with leading contact Product extension optional motor drive No Yes	 voltage trigger 	No
product extension optional motor drive Yes		No
product extension optional motor drive Yes	 undervoltage release with leading contact 	No
Product function	product extension optional motor drive	Yes
	Product function	

product function		
of thermal overload trip unit	without	
grounding protection	No	
for neutral conductors short-circuit and overload proof	No	
overload protection	No	
Short circuit	NO	
operating short-circuit current breaking capacity (lcs)		
at 240 V rated value	65 kA	
at 415 V rated value	55 kA	
at 500 V rated value	20 kA	
at 690 V rated value	6 kA	
maximum short-circuit current breaking capacity (Icu)	U IVA	
at 240 V rated value	65 kA	
at 415 V rated value	55 kA	
at 440 V rated value	25 kA	
at 480 V according to NEMA rated value	25 kA	
at 500 V rated value	25 kA	
at 600 V according to NEMA rated value	12 kA	
at 690 V rated value	12 kA	
Connections	12.103	
arrangement of electrical connectors for main current circuit	front side	
type of connectable conductor cross-sections for main contacts		
with flexible busbar	12 x 10 mm	
• solid	2.5 95 mm²	
finely stranded with core end processing	2.5 50 mm²	
• stranded	2.5 95 mm²	
type of connectable conductor cross-sections for auxiliary contacts		
• solid	0.75 1.5 mm²	
• finely stranded with core end processing	0,75 1.0 mm²	
type of electrical connection for main current circuit	screw-type terminals	
Mechanical Design		
height	174.5 mm	
width	104.5 mm	
depth	106.5 mm	
fastening method	fixed mounting	
Environmental conditions		
ambient temperature during operation		
• minimum	0 °C	
maximum	70 °C	
ambient temperature during storage		
• minimum	-40 °C	
maximum	80 °C	
Approvals Certificates		
General Product Approval		Test Certificates

General Product Approval

Test Certificates

Confirmation



CE EG-Konf.





Special Test Certificate

other Environment

MiscellaneousConfirmationMiscellaneousEnvironmental ConfirmationsEnvironmental 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=3VL2706-1DK36-0AA0

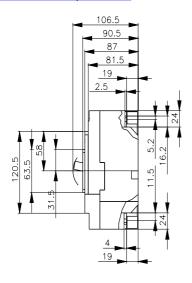
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VL2706-1DK36-0AA0

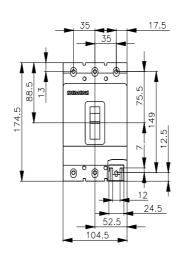
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL2706-1DK36-0AA0

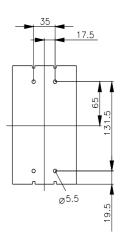
CAx-Online-Generator

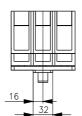
Tender specifications

http://www.siemens.com/specifications









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6/17/2023