SIEMENS

Data sheet

3VL5750-1DK36-0AA0

circuit breaker VL630N standard breaking capacity Icu=55kA, 415V AC 3-pole, starter combination trip unit magnetic In=500A, rated current II=3250...6300A, short-circuit protection without auxiliary release without auxiliary/alarm switch

type of the driving mechanism motor drive design of the overcurrent release MI Gesign of the covercurrent release MI Genral technical data number of poles 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Model	
design of the overcurrent release M		No
General technical data number of poles 3 3 3xizo of the circuic breaker mechanical service life (perating cycles) typical electrical endurance (operating cycles) typical 10 000 electrical endurance (operating cycles) typical 10 01 000 electrical endurance (operating cycles) typical 10 01 000 electrical endurance (operating cycles) typical 10 01 01 000 electrical endurance (operating cycles) typical 10 01 01 01 01 01 01 01 01 01 01 01 01 0		M
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reference code according to DIN 40719 extended according to IEC 2042 according to IEC 750 IEC		A
EEC 204-2 according to IEC 750		N
Rated operational voltage Ue max. • insulation voltage rated value • insulation voltage (U) at AC rated value 800 V • insulation voltage (U) at AC rated value 800 V surge voltage resistance rated value 980 V operating voltage • rated value maximum 690 V • for main current circuit at AC at 50 Hz maximum 980 V	reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	Q
Rated operational voltage Ue max. • insulation voltage rated value • insulation voltage (UI) at AC rated value 800 V surge voltage resistance rated value 800 V surge voltage resistance rated value 800 V surge voltage resistance rated value 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at DC maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at DC maximum 900 V • for main current circuit at DC maximum 900 V • for main current circuit at DC maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at DC maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current circuit at AC at 50 Hz maximum 900 V • for main current	operating frequency maximum	60 1/s
insulation voltage reted value insulation voltage (Ui) at AC rated value insulation voltage resistance rated value surge voltage resistance rated value a kV 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 AC at 60 Hz maximum for main current circuit at AC at 60 Hz maximum for wolve the current circuit at AC at 60 Hz maximum for wolve the current release protection class protection class IP protection class IP protection function of the overcurrent release 1 Main circuit operating frequency 1 rated value 2 rated value 2 rated value 60 Hz operating power at AC-3 1 at 230 V rated value 277.1 kW Auxiliary circuit number of CO contacts for auxiliary contacts 0 unmber of NC contacts for auxiliary contacts 0 trip indicator in the current release in No auxiliary switch votage trigger No undervoltage release undervoltage release vin leading contact No undervoltage release vin undervoltage rele	Voltage	
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operating voltage • fated 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 • protection class protection function of the overcurrent release I P20 protection function of the overcurrent release I I Main circuit operating frequency • 1 rated value • 2 rated value • 30 Hz • 4 rated value • 2 rated value • 30 Hz • 4 rated value • 50 Hz • 2 rated value • 2 rated value • 2 rated value • 30 Hz • 4 rated value • 50 Hz • 4 rated value • 50 Hz • 50 Hz • 60 Hz • 77.1 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 suttability for use Product details voltage trigger • No • undervoltage release • undervoltage release with leading contact No product extension optional motor drive Yes	• 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 DC maximum 500 V Protection class protection class IP protection function of the overcurrent release I	surge voltage resistance rated value	8 kV
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 500 V Protection class 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 • at 230 V rated value 32 V was at 400 V rated value 32 V rated value 32 V rated value 4 Auxillary circuit number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 suitability suitability suitability for use Product details product component • trip indicator • undervoltage release • undervoltage release • undervoltage release • undervoltage release • undervoltage release with leading contact No product stefsion optional motor drive Yes Product function	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 1 rated value 60 Hz operating power at AC-3 1 at 320 V rated value 277.1 kW Auxiliary circuit number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 suitability suitability for use Product details product component trip indicator auxiliary switch voltage release undervoltage release with leading contact No product extension optional motor drive Yes Product function	 for main current circuit at AC at 60 Hz maximum 	690 V
protection class IP protection function of the overcurrent release II Main circuit operating frequency 1 rated value 2 rated value 60 Hz operating power at AC-3 1 at 230 V rated value 2 rated value 3 value 3 value 4 v	 for main current circuit at DC maximum 	500 V
protection function of the overcurrent release I Main circuit operating frequency	Protection class	
Main circuit operating frequency • 1 rated value • 2 rated value operating power at AC-3 • at 230 V rated value • 277.1 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 0 number of NO contacts for auxiliary contacts 0 Suitability suitability suitability suitability roduct details product component • trip indicator • auxiliary switch • voltage trigger • No • undervoltage release • No • undervoltage release • undervoltage release with leading contact No product textension optional motor drive Product function	protection class IP	IP20
operating frequency	protection function of the overcurrent release	I
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operating power at AC-3 • at 230 V rated value • at 400 V rated value 277.1 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 suitability for use Product details product component • trip indicator • trip indicator • undervoltage release • undervoltage release with leading contact No product extension optional motor drive Product function	• 1 rated value	50 Hz
• at 230 V rated value • at 400 V rated value 277.1 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 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 Product function	• 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 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 • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive Product function	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 No product extension optional motor drive Product function	 at 230 V rated value 	92 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 Product function	 at 400 V rated value 	277.1 kW
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 Product function	Auxiliary circuit	
number of NO contacts for auxiliary contacts Suitability suitability for use Starter protection Product details product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive Product function	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 Product function	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 Product function	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 Product function	Suitability	
product component • trip indicator • auxiliary switch • voltage trigger • undervoltage release • undervoltage release with leading contact product extension optional motor drive Product function	suitability for use	Starter protection
 trip indicator auxiliary switch voltage trigger undervoltage release undervoltage release with leading contact voltage trigger No voltage trigger Vo voltage release Vo voltage release with leading contact Vo product extension optional motor drive Yes Product function	Product details	
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 voltage trigger undervoltage release undervoltage release with leading contact undervoltage release with leading contact No product extension optional motor drive Yes Product function	• trip indicator	No
 undervoltage release undervoltage release with leading contact No product extension optional motor drive Product function 	auxiliary switch	No
 undervoltage release with leading contact product extension optional motor drive Product function 	voltage trigger	No
Product extension optional motor drive Yes Product function	 undervoltage release 	No
Product function	 undervoltage release with leading contact 	No
	product extension optional motor drive	Yes
product function	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		
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	10 kA	
maximum short-circuit current breaking capacity (Icu)		
at 240 V rated value	65 kA	
• at 415 V rated value	55 kA	
at 440 V rated value	35 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 	20 kA	
 at 690 V rated value 	20 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 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	279.5 mm	
width	190 mm	
depth	138.5 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

Confirmation









Special Test Certific-<u>ate</u>

other **Environment**

Environmental Confirmations **Miscellaneous** Confirmation **Miscellaneous 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)

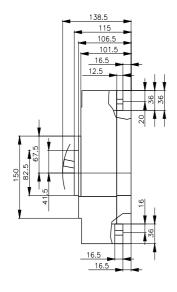
 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL5750-1DK36-0AA0}$

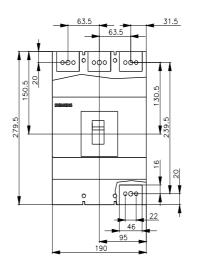
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

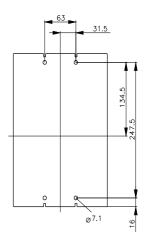
https://support.industry.siemens.com/cs/ww/en/ps/3VL5750-1DK36-0AA0

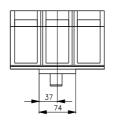
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.siemens.com/specifications









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