SIEMENS

Data sheet

3VL4740-1DC36-0AA0

circuit breaker VL400N standard breaking capacity Icu=55kA, 415V AC 3-pole, line protection trip unit TM, LI In=400A, rated current IR=320...400A, overload protection, II=2000...4000A, short-circuit protection without auxiliary release without auxiliary/alarm switch

Model		
type of the driving mechanism motor drive	No	
design of the overcurrent release	TM	
General technical data		
number of poles	3	
size of the circuit-breaker	3VL4	
mechanical service life (operating cycles) typical	20 000	
electrical endurance (operating cycles) typical	10 000	
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	120 1/s	
Voltage		
Rated operational voltage Ue max.	690 V	
 insulation voltage rated value 	800 V	
 insulation voltage (Ui) at AC rated value 	800 V	
surge voltage resistance rated value	8 kV	
operating voltage		
rated value 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 DC maximum 	500 V	
Protection class		
protection class IP	IP20	
protection function of the overcurrent release	LI	
Current		
operational current		
• at 40 °C rated value	400 A	
● at 45 °C rated value	400 A	
• at 50 °C rated value	400 A	
● at 55 °C rated value	372 A	
 at 60 °C rated value 	372 A	
at 65 °C rated value	344 A	
• at 70 °C rated value	344 A	
continuous current rated value	400 A	
derating temperature for the rated value of the continuous current	50 °C	
adjustable current response value current		
of the current-dependent overload release full-scale value	400 A	
 of instantaneous short-circuit trip unit minimum 	2 000 A	
 of instantaneous short-circuit trip unit maximum 	4 000 A	
Main circuit		
operating frequency		
1 rated value	50 Hz	
• 2 rated value	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	
	system protection	
Adjustable parameters	000 4	
adjustable current response value current of the current- dependent overload release initial value	320 A	
Product details		
product component		
trip indicator	No	
auxiliary switch	No	
voltage trigger	No	
undervoltage release	No	
undervoltage release with leading contact	No	
product extension optional motor drive	Yes	
Product function		
product function		
of thermal overload trip unit	adjustable	
grounding protection	No	
for neutral conductors short-circuit and overload	No	
proof		
overload protection	Yes	
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	8 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 	35 kA	
 at 500 V rated value 	25 kA	
 at 600 V according to NEMA rated value 	20 kA	
 at 690 V rated value 	15 kA	
Connections		
arrangement of electrical connectors for main current	front side	
circuit		
type of connectable conductor cross-sections for main		
contacts	05 40	
with flexible busbar	25 x 10	
solid finely stranded with core and processing	50 300 mm ²	
finely stranded with core end processingstranded	50 240 mm ² 50 300 mm ²	
type of connectable conductor cross-sections for auxiliary	50 500 Hilli	
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	139 mm	
depth	163.5 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	
General Product Approval		EMC
Scholar Freduct Approval		21110







Declaration of Conformity

Test Certificates

Marine / Shipping

<u>KC</u>





Special Test Certificate







Marine / Shipping











Environmental Confirmations Miscellaneous

other

Confirmation

Further information

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=3VL4740-1DC36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VL4740-1DC36-0AA0

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

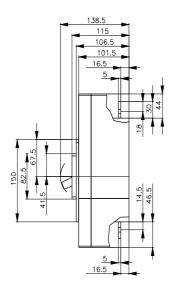
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4740-1DC36-0AA0

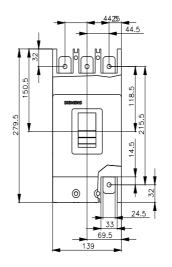
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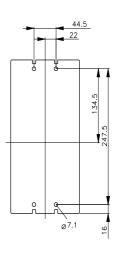
http://www.siemens.com/cax

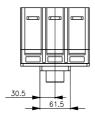
Tender specifications

http://www.siemens.com/specifications









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