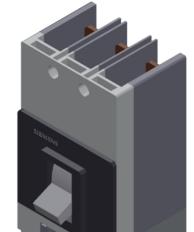
Product data sheet



Similar to image

CIRCUIT-BREAKER VL 400N STANDARD BREAKING
CAPACITY R.U.S.-C.BR.C.= 55KA,
415 V AC 3-POLE,
MOTOR PROTECTION ELECTRONIC TRIP UNIT ETU30M,
LI IN=315A,
RATED CURRENT TC= 10A ... 30,
TIME LAG CLASS II= 6 ... 11 X IN,
SHORT-CIRCUIT PROTECTION WITHOUT AUXILIARY
RELEASE AUXILIARY/ALARM SWITCH KIT
2HS(1NO+1NC)+1AS(1NO)

General technical data:				
Number of poles		3		
Design of the overcurrent release		ETU30M		
Suitability for use		Motor Protection		
Usage category		Α		
Electrical endurance (switching cycles) / typical		10,000		
Mechanical service life (switching cycles) / typical		20,000		
Active power loss / maximum	W	90		
Product component				
Auxiliary switch		Yes		
Voltage trigger		No		
undervoltage release		No		
 undervoltage release with leading contact 		No		
Product function				
of the thermal overload release		adjustable		
Ground fault protection		No		
• for neutral conductors / Short-circuit and overload proof		No		
overload protection		Yes		
Operating frequency / maximum	1/s	120		

Protective function of the overcurrent release L	Protection class IP		IP20
Ambient temperature • during operation • during storage Main circuit: Insulation voltage / with AC / Rated value Operating frequency • 1 / Rated value • 2 / Rated value • 2 / Rated value • 2 / Rated value • 3 / 20 / 7.9 • 4 / 20 / 7.9 • 4 / 20 / 7.9 • 5 / 20 / 7.9 • 5 / 20 / 7.9 • 6 / 20 / 7.9 • 6 / 20 / 7.9 • 6 / 20 / 7.9 • 6 / 20 / 20 / 20 / 20 / 20 / 20 / 20 /	Protective function of the overcurrent release		
- during poration - during storage Main circuit: Insulation voltage / with AC / Rated value Operating frequency - 1 / Rated value - 2 / Rated value - 3 / Rated value - 4 / Rated value - 4 / Rated value - 4 / Rated value - 5 / Rated value - 4 / Rated value - 5 / Rated value - 5 / Rated value - 6 / Rated value - 75 / Rated value - 75 / Rated value - 6 / Rated value - 75 / Rated	Surge voltage resistance / Rated value	kV	8
*during storage *C -40 +80 Main circuit: Insulation voltage / with AC / Rated value V 800 Operating frequency •1 / Rated value Hz 50 •2 / Rated value Hz 60 Operating power / at AC-3 •at 230 V / Rated value kW 57.9 •at 400 V / Rated value kW 174.6 Reference code •acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 Operating voltage / for main current circuit •with AC / at 50 Hz •maximum V 690 Operating current •at 40 °C / Rated value A 315 •at 50 °C / Rated value A 315 •at 60 °C / Rated value A 315 •at 60 °C / Rated value A 315 •at 60 °C / Rated value A 315 •at 70 °C / Rated	Ambient temperature		
Main circuit: Insulation voltage / with AC / Rated value Operating frequency + 1 / Rated value + 2 / Rated value - 2 / Rated value - 2 / Rated value + 12 50 Operating power / at AC-3 + at 230 V / Rated value + at 400 V / Rated value + acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 + acc. to DIN EN 61346-2 Operating voltage / for main current circuit + with AC / at 50 Hz + maximum V 690 Operating current + at 40 °C / Rated value + at 50 °C / Rated value + at 50 °C / Rated value + at 50 °C / Rated value + at 60 °C / Rated value A 315 - at 60 °C / Rated value A 299.3 - at 70 °C / Rated value A 315 Operating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts A 126 315	during operation	°C	-25 +70
Insulation voltage / with AC / Rated value Operating frequency - 1 / Rated value - 2 / Rated value - 3 / Rated value - 4 / Rated value - 4 / Rated value - 5 / Rated value - 5 / Rated value - 5 / Rated value - 6 / Rated value - 7 / Rated value - 7 / Rated value - 8 / Rated value - 6 / Rated value - 6 / Rated value - 7 / Rated value - 7 / Rated value - 6 / Rated value - 7 / Rated value - 7 / Rated value - 7 / Rated value - 8 / Rated value - 9 / Rated value - 9 / Rated value - 1 / Rated value - 2 / Rated value - 2 / Rated value - 3 / Rated value - 4 / Rated value - 5 / Rated value - 6 / Rated value - 7 / Rated value - 8 / Rated value - 8 / Rated value - 9 / Rated value - 1 / Rated value - 1 / Rated value - 1 / Rated value - 2 / Rated value - 2 / Rated value - 3 / Rated value - 4 / Rated value - 5 / Rated value - 6 / Rated value - 7 / Rated value - 8 / Rated value - 9 / Rated value - 9 / Rated value - 1 / Rated value - 1 / Rated value - 1 / Rated value - 2 / Rated value - 3 / Rated value - 4 / Rated value -	during storage	°C	-40 +80
Insulation voltage / with AC / Rated value Operating frequency - 1 / Rated value - 2 / Rated value - 3 / Rated value - 4 / Rated value - 4 / Rated value - 5 / Rated value - 5 / Rated value - 5 / Rated value - 6 / Rated value - 7 / Rated value - 7 / Rated value - 8 / Rated value - 6 / Rated value - 6 / Rated value - 7 / Rated value - 7 / Rated value - 6 / Rated value - 7 / Rated value - 7 / Rated value - 7 / Rated value - 8 / Rated value - 9 / Rated value - 9 / Rated value - 1 / Rated value - 2 / Rated value - 2 / Rated value - 3 / Rated value - 4 / Rated value - 5 / Rated value - 6 / Rated value - 7 / Rated value - 8 / Rated value - 8 / Rated value - 9 / Rated value - 1 / Rated value - 1 / Rated value - 1 / Rated value - 2 / Rated value - 2 / Rated value - 3 / Rated value - 4 / Rated value - 5 / Rated value - 6 / Rated value - 7 / Rated value - 8 / Rated value - 9 / Rated value - 9 / Rated value - 1 / Rated value - 1 / Rated value - 1 / Rated value - 2 / Rated value - 3 / Rated value - 4 / Rated value -	Main circuit:		
• 1 / Rated value	Insulation voltage / with AC / Rated value	V	800
*2 / Rated value	Operating frequency	_	
A	• 1 / Rated value	Hz	50
* at 230 V / Rated value kW 57.9 * at 400 V / Rated value kW 174.6 Reference code - acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 Q * acc. to DIN EN 61346-2 Q Operating voltage / for main current circuit Q * with AC / at 50 Hz V * maximum V * with AC / at 60 Hz V * maximum V * at 40 °C / Rated value A * at 50 °C / Rated value A * at 60 °C / Rated value A * at 70 °C / Rated value A * Operating temperature / for the rated value of the continuous current / Rated value A * Atilitary circuit: Number of NC contacts / for auxiliary contacts 1 Number of NC contacts / for auxiliary contacts 1 Number of NC contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current A 126 315	• 2 / Rated value	Hz	60
* at 400 V / Rated value	Operating power / at AC-3		
Reference code • acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 • acc. to DIN EN 61346-2 Operating voltage / for main current circuit • with AC / at 50 Hz • maximum • with AC / at 60 Hz • maximum V 690 Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • at 70 °C / Rated value Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Adjustable response value current • of the current-dependent overload release A 126 315	• at 230 V / Rated value	kW	57.9
*acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 *acc. to DIN EN 61346-2 Operating voltage / for main current circuit *with AC / at 50 Hz *maximum vith AC / at 60 Hz *maximum volume 690 Operating current *at 40 °C / Rated value *at 50 °C / Rated value *at 60 °C / Rated value *at 70 °C / Rated value *at 70 °C / Rated value A 315 Operating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Adjustable response value current • of the current-dependent overload release A 126 315	• at 400 V / Rated value	kW	174.6
**************************************	Reference code		
Operating voltage / for main current circuit • with AC / at 50 Hz • maximum • with AC / at 60 Hz • maximum V 690 Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • at 70 °C / Rated value • at 70 °C / Rated value • A 299.3 • at 70 °C / Rated value A 315 Derating temperature / for the rated value of the continuous current Auxillary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Adjustable response value current • of the current-dependent overload release A 126 315			Q
with AC / at 50 Hz maximum V 690 with AC / at 60 Hz maximum V 690 Operating current at 40 °C / Rated value A 315 at 50 °C / Rated value A 315 at 60 °C / Rated value A 299.3 at 70 °C / Rated value A 252 Continuous current / Rated value A 315 Derating temperature / for the rated value of the continuous ourrent Auxillary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Adjustable response value current of the current-dependent overload release A 126 315	• acc. to DIN EN 61346-2		Q
* maximum * with AC / at 60 Hz * maximum V 690 Operating current * at 40 °C / Rated value * at 50 °C / Rated value * at 60 °C / Rated value * at 70 °C / Ra	Operating voltage / for main current circuit		
with AC / at 60 Hz * maximum V 690 Operating current at 40 °C / Rated value A 315 at 50 °C / Rated value A 299.3 at 70 °C / Rated value A 252 Continuous current / Rated value A 315 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Adjustable response value current • of the current-dependent overload release A 126 315	• with AC / at 50 Hz		
maximum Operating current at 40 °C / Rated value A 315 at 50 °C / Rated value A 299.3 at 70 °C / Rated value A 252 Continuous current / Rated value Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Adjustable response value current of the current-dependent overload release A 126 315	• maximum	V	690
Operating current • at 40 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • at 70 °C / Rated value • at 70 °C / Rated value • at 70 °C / Rated value A 252 Continuous current / Rated value A 315 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts I Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current • of the current-dependent overload release A 126 315	• with AC / at 60 Hz		
at 40 °C / Rated value at 50 °C / Rated value A 315 at 60 °C / Rated value A 299.3 at 70 °C / Rated value A 252 Continuous current / Rated value A 315 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current of the current-dependent overload release A 315 A 315 A 252 C 50 C	• maximum	V	690
at 50 °C / Rated value at 60 °C / Rated value at 70 °C / Rated value A 299.3 at 70 °C / Rated value A 315 Continuous current / Rated value A 315 Derating temperature / for the rated value of the continuous current Current Auxiliary circuit: Number of NC contacts / for auxiliary contacts I Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current of the current-dependent overload release A 126 315	Operating current		
at 60 °C / Rated value at 70 °C / Rated value A 252 Continuous current / Rated value A 315 Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current of the current-dependent overload release A 126 315	• at 40 °C / Rated value	Α	315
• at 70 °C / Rated value Continuous current / Rated value A 315 Derating temperature / for the rated value of the continuous current °C 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts 1 Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current • of the current-dependent overload release A 126 315	• at 50 °C / Rated value	Α	315
Continuous current / Rated value A 315 Derating temperature / for the rated value of the continuous current **C 50 Auxiliary circuit: Number of NC contacts / for auxiliary contacts 1 Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current • of the current-dependent overload release A 126 315	• at 60 °C / Rated value	Α	299.3
Derating temperature / for the rated value of the continuous current Auxiliary circuit: Number of NC contacts / for auxiliary contacts 1 Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current • of the current-dependent overload release A 126 315	• at 70 °C / Rated value	Α	252
Auxiliary circuit: Number of NC contacts / for auxiliary contacts 1 Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current • of the current-dependent overload release A 126 315	Continuous current / Rated value	Α	315
Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current • of the current-dependent overload release A 126 315	Derating temperature / for the rated value of the continuous current	°C	50
Number of NO contacts / for auxiliary contacts 2 Short-circuit: Adjustable response value current • of the current-dependent overload release A 126 315	Auxiliary circuit:		
Short-circuit: Adjustable response value current • of the current-dependent overload release A 126 315	Number of NC contacts / for auxiliary contacts		1
Adjustable response value current • of the current-dependent overload release A 126 315	Number of NO contacts / for auxiliary contacts		2
• of the current-dependent overload release A 126 315	Short-circuit:		
	Adjustable response value current		
• of the instantaneous short-circuit release A 1,890 3,465	of the current-dependent overload release	Α	126 315
	of the instantaneous short-circuit release	Α	1,890 3,465

kΑ

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Installation/mounting/dimensions:

Mounting type		fixed mounting
Height	mm	279.5
Width	mm	139
Depth	mm	163.5

Connections

Arrangement of electrical connectors / for main current circuit	front side
Design of the electrical connection / for main current circuit	screw-type terminals
Type of connectable conductor cross-section	
• for main contacts	
with flexible busbar	25 x 10
• solid	50 300 mm²
• finely stranded / with core end processing	50 240 mm²
• stranded	50 300 mm²
• for auxiliary contacts	
• solid	0.75 1.5 mm ²

Certificates/approvals:

General Product Approval

Declaration of Conformity

Test Certificates

0,75 ... 1.0 mm²





• finely stranded / with core end processing



Special Test Certificate

Shipping Approval









other

Confirmation

other

Environmental Confirmations

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VL4731-1SS36-0AD1

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

 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3VL4731-1SS36-0AD1/all}}$

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL4731-1SS36-0AD1

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

Datanorm GAEB81 GAEB83 RTF TXT

last change: Oct 16, 2014