



Reactive current
control relay
DCRM2

Product designation

Product type designation

Auxiliary supply

Rated auxiliary supply voltage U_s
AC

min	VAC	380
Max	VAC	415

Auxiliary operating range		0.85...1.1 U_s
Auxiliary rated frequency	Hz	50/60 $\pm 5\%$
Power consumption Max	VA	4.4
Power dissipation Max	W	2.4
Immunity time for microbreakings	ms	≤ 17

Voltage inputs

Rated voltage (U_e)	VAC	480VAC (rated max)
Operating range		80...528VAC
Frequency range	Hz	50 or 60Hz $\pm 1\%$ self configurable
Type of measure		True RMS value
No-voltage release	ms	≥ 8
Measurement input impedance	k Ω	$> 1M\Omega$
Type of connection		L1-L2 or L-N

Current inputs

Number of current input	Nr.	1
Type of input		Shunt supplied by external current transformer (low voltage). Max 5A
Measurement range		0.1...6A~
Measurement method		True RMS value
Constant overload	I _e	1.2 I _e
Overload peak	A	10I _n for 1s
Dynamic peak	A	160A for 10ms
Burden per phase	W	$\leq 0.6W$

Adjustments

C/K step 1 and 2		OFF / 0.15...2
Connectin / Disconnection delay	s	1...60s
System configuration		3-phase - 1-phase

Measurement data

Type of voltage and current measurement	True RMS value
---	----------------

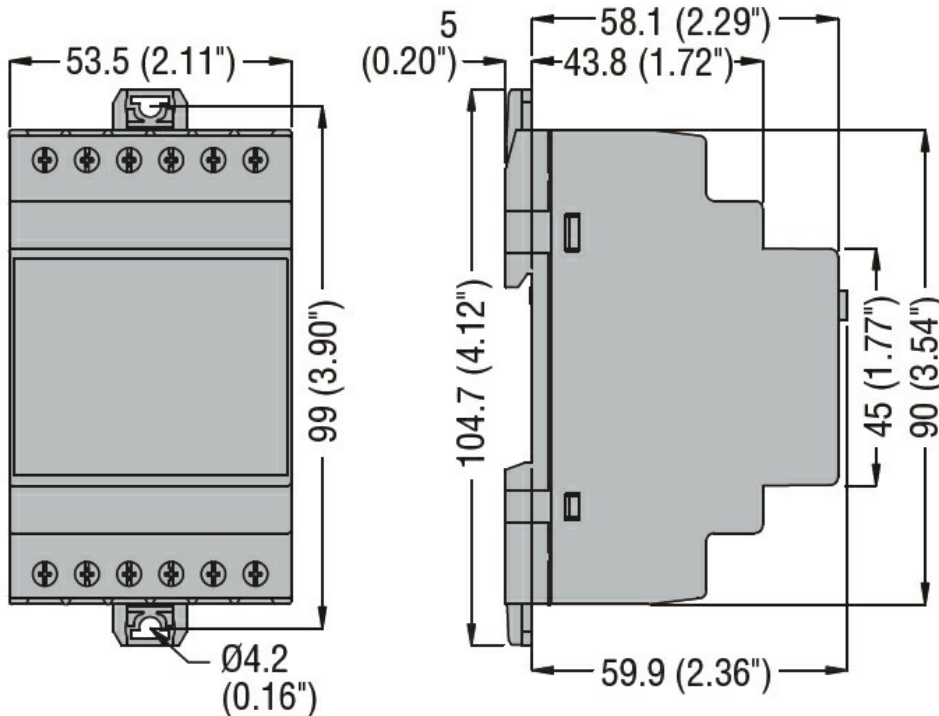
Relay outputs

Number of relay output	Nr.	2
Contact arrangement		2 x 1 C/O-SPDT

Rated current				8A 250VAC AC1		
UL/CSA and IEC/EN 60947-5-1 designation				B300		
Maximum switching voltage				VAC	400	
Electrical life (with rated load)				cycles	10 ⁵	
Mechanical life				cycles	30 x 10 ⁶	
Insulations						
Rated insulation voltage Ui IEC/EN				V	480	
Rated impulse withstand voltage Uimp				kV	6	
Operating frequency withstand voltage				kV	2.5	
Connections						
Type of terminal				Screw, fixed		
Conductor cross section				min	mm ²	0.2
				Max	mm ²	4
				min	AWG	24AWG (18AWG according to UL/CSA)
				Max	AWG	12
Tightening torque (Max)				Nm	0.8	
				lbin	7 (7-9 according to UL/CSA)	
Ambient conditions						
Temperature						
Operating temperature				min	°C	-20
				max	°C	+60
Storage temperature				min	°C	-30
				max	°C	+80
Relative humidity				%	<80%	
Maximum Pollution degree				2		
Overvoltage category				3		
Measurement category				III		
Max altitude				m	2000	
Climatic sequence				Z/ABDM (IEC/EN 60068-2-61)		
Shock resistance				15g (IEC/EN 60068-2-27)		
Vibration resistance				0.7g (IEC/EN 60068-2-6)		
Housing						
Execution				Modular, 3 modules (DIN 43880)		
Material				Polyamide		
Mounting				On 35mm DIN rail (IEC/EN 60715) or by screws using extractible clips		
Degree of protection				IP40 on front, IP20 at terminals		

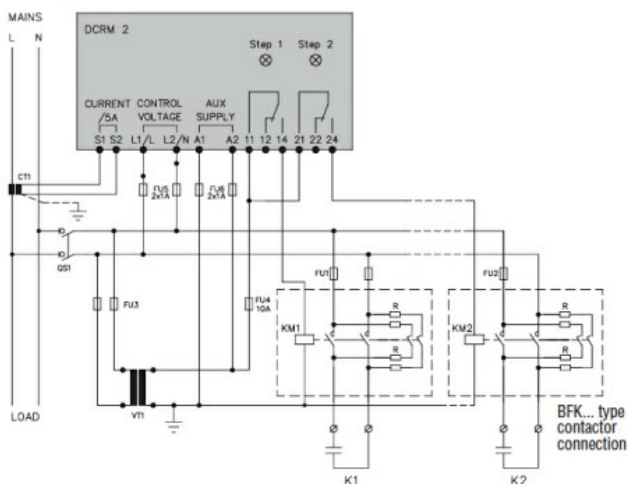
Dimensions (W x H x D)	mm	53.5 x 104.7 x 64.9
Weight	g	284

Dimensions

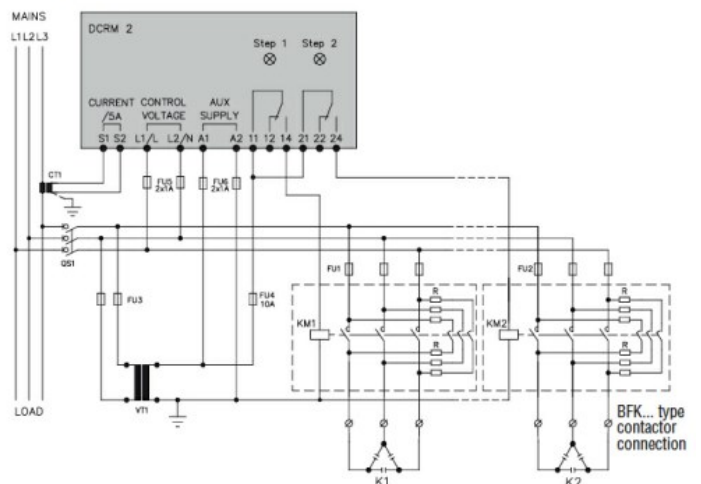


Wiring diagrams

Single-phase connection



Three-phase connection



Certifications and compliance

Compliance

CSA C22.2 n°14
IEC/EN 60255-5
IEC/EN 61000-6-2
IEC/EN 61000-6-3
IEC/EN 61010-1
UL 508

Certificates

cULus
EAC

ETIM classification

ETIM 8.0

EC001440 -
Current
monitoring relay