

Coupling device CD1000-2



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Device features

- Coupling device for NGRM
- Range of use up to AC 1000 V/DC 600 V system voltage
- Application up to 5000 m

Certifications



Product description

The CD1000-2 can be employed with an NGR monitor in HRG installations with a system voltage $U_{\rm LL}$ up to 1000 V ($U_{\rm NGR} \le 600$ V).

It can be used at maximally 5000 m AMSL.

Application

• The coupling device is suitable for HRG applications up to AC 1000 V and/or DC 690 V.

Function

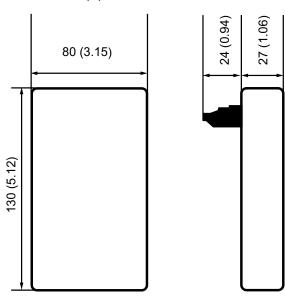
The duty time is unlimited. To provide the necessary cooling at a voltage of $U_{LL} > 690 \text{ V}$ ($U_{NGR} > 400 \text{ V}$), the CD1000-2 should be mounted on a grounded metal plate of at least $300 \times 300 \text{ mm}$.

Ordering details

Туре	U LL	U ngr	Art. No.
CD1000-2	up to 1000 V	600 V	B98039053

Dimension diagram

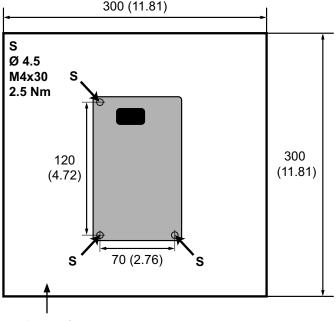
Dimensions in mm (in)



Screw mounting

Dimensions in mm (in)

The device is suitable for screw mounting. For $U_{\rm LL} > 690$ V, a cooling surface of 300 x 300 mm (11.81 in²) must be provided.



Cooling surface

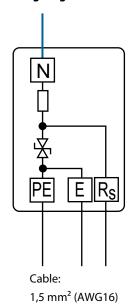


Wiring diagrams

Wiring diagram

L1 L2 L3 50mA 5A С Rs **NGR** Monitor Ε Ν N R_S E (S) PE 9088 **NGR** PΕ CD1000-2 PΕ PE PE PE

Internal wiring diagram CD1000-2



i So that the connection between NGR and star point is also monitored, the "N" terminal of the CD1000-2 should be connected directly to the star point of the transformer.

A direct connection between the "N" connections of the CD1000-2 and the NGR is not recommended, as in this case a line interruption between the star point and the NGR connection "N" would not be monitored.

Terminal	Use	Connecting cable	
	030	Metrical	Imperial
N	Connection to the star point of the HRG system		
Rs	Connection to R_S of the NGRM	1.5 mm ²	AWG16
E	Connection to protective earth conductor (internally connected to PE)		
PE	Connection to the protective conductor (internally connected to E), cable lug M4	\geq 1,5 mm ²	≥ AWG16

Technical data

N
Rs
E, PE
600 V
III
2
600 V
50 V
DC, 50/60 Hz, 103200 Hz 600 V
30 mA
1.15 x $U_{\rm n}$ for $<$ 30 minutes
±0.5 %
20 ppm/K
-40+70 ℃
-40+60 °C
≤ 98 %
60721
3K22
2K11
1K22

Classification of mechanical conditions acc. to IEC 60721		
Stationary use	3M12	
Transport	2M4	
Long-term storage	1M12	
Connection		
Tightening torque	0.50.6 Nm (4.45.3 lb-in)	
Conductor sizes	AWG 24-12	
Stripping length	7 mm	
Conductor, rigid	0.24 mm ²	
Conductor, flexible	0.22.5 mm ²	
Multiple conductor, flexible with ferrule		
without plastic sleeve	0.251.5 mm ²	
with plastic sleeve	0.252.5 mm ²	
Multiple conductor, flexible with TWIN ferrule		
with plastic sleeve	0.51.5 mm ²	
Other		
Operating mode	continuous operation	
Mounting	any position	
Screw type mounting screws	M4x30	
Tightening torque mounting screws	2.5 Nm (22.1 lb-in)	
Operating altitude	up to 5000 m AMSL	
Degree of protection, internal components (DIN EN 60529)	IP30	
Flammability class	UL 94V-0	
Documentation number	D00345	
Weight	< 700 g	







