

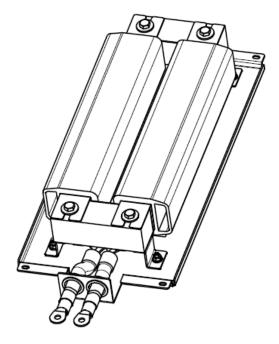
Datasheet

Preliminary data

1-phase smoothing reactor

for converters

780 V, 0 Hz, 209.4 A, 40 °C



Special features:

Ordering code:	B86732G0209L220		
Date:	2019-05-24		
Version:	01		
Customer release			

Customer release					
Hitachi Europe GmbH	11.06.2019				
Company	Date				
Shuhei Takarabe					
Name	Expected date of first delivery (optional)				
Engeneer	S. Takarabe				
Function	Signature				
Please send back to TDK Electronics MAG PEMC or to your TDK Electronics sales representative					

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1-phase smoothing reactor for converters B86732G0209L220

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Technical data and measuring conditions

Rated voltage	U _{R [L-PE]}	780 V DC
Test voltage line to case for 2 s	U _{test}	2700 V DC
Rated temperature	T _R	40 °C
Insulation class		H (180 °C)
Degree of protection (IEC 60529: 2013)	IP 00	

Characteristics and ordering codes

I _R	Connecting wire cross section	Inductance 1)	R _{typ}	Approx weight.	Hitachi code / Ordering code / (Preliminary code)	Approvals ³⁾		
A	mm ²	mH	mΩ	kg		IEC 60076-6	91 UL 5085	CSA C22.2 No.66.1
209.4	95	0.37	3.75	20.5	FPF-GD1.8-209 B86732G0209L220 (P3001199M003)	D	-	-

+/- 10% at rated current
 at rated current, 50 Hz and 20 °C

at rated current, 50 Hz and 20 \$
3) X = approval granted

P = pending

D = designed with reference to

- = none

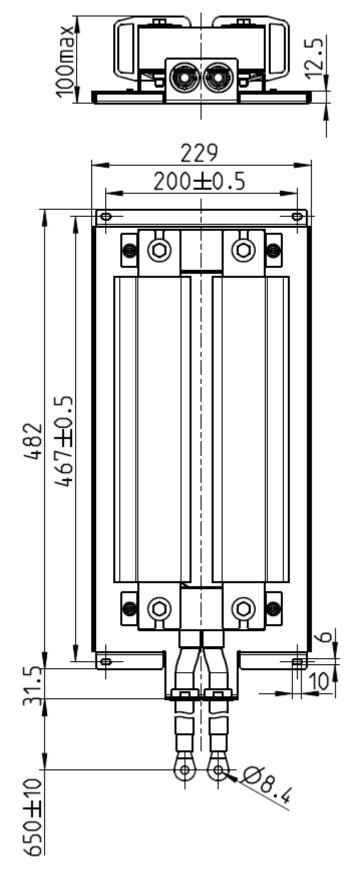


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Dimensional drawing



General tolerances according to ISO 2768-cL Dimensions in mm

Please read *Cautions and warnings* and *Important notes* at the end of this document.

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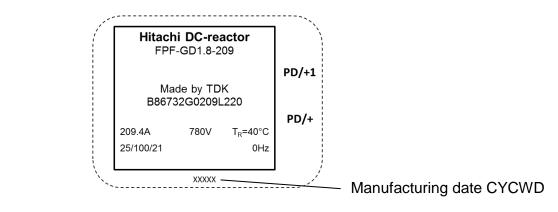
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Customer specific labeling

Type label

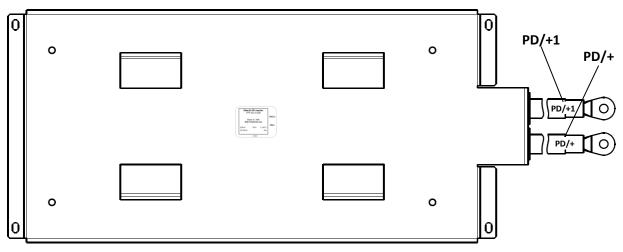


Lettering shrinking tube

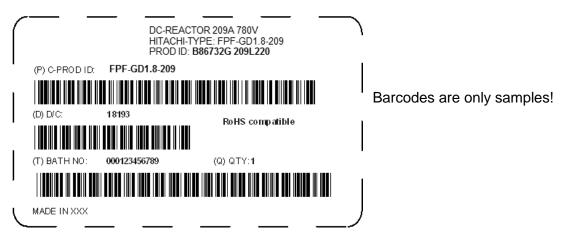


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Position of labeling



Packaging label





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Cautions and warnings

- Please note the advices in our data book "EMC Filters" (latest edition); attention should be paid to the chapter "General safety notes".
- It shall be ensured that only qualified persons (electricity specialists) are engaged on work such as planning, assembly, installation, operation, repair and maintenance. They must be provided with the corresponding documentation.
- The protective earth connections shall be the first to be made when the reactor is installed and the last to be disconnected.
- Impermissible overloading of the reactor, such as with circuits able to cause resonances, impermissible voltages at higher frequencies etc. can lead to bodily injury and death as well as cause substantial material damages (e.g. destruction of the insulating).
- Reactors must be protected in the application against impermissible exceeding of the rated currents by overcurrent protective.
- Output chokes and output filters must be protected in the application against impermissible exceeding of the component temperature.
- The converter output frequency must be within the specified range to avoid resonances and uncontrolled warming of the output chokes and output filters.
- Because the product can become very hot during operation, there is the risk of burns if touched. The product can remain hot for some time after the power is switched off!

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