df Electric

TRANSFORMERS

LOW VOLTAGE TRANSFORMERS · AUTOTRANSFORMERS · REACTORS

RET9
LINE

three-phase reactors

RET9 LINE

RET9 LINE

RET9 HCF

PROTECTING THE WORLD

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RET9
LINE
three-phase reactors

TRANSFORMERS

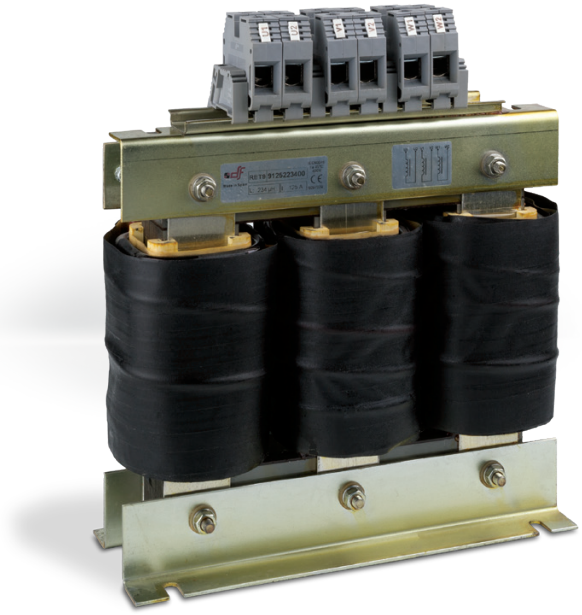
RET9 LINE

MAX WORKING VOLTAGE
690V

CURRENT
10A...200A

VOLTAGE DROP
4% 400V

STANDARDS
IEC/EN 61558-2-20
IEC/EN60076-6



RET9 LINE
Three-phase reactors

RET9 three-phase reactors are specially designed to be installed in the supply line of motor drives, power converters or similar devices, were they are intended to:

- Protect the converter against notches and network spikes
- Reduction of interferences between converters
- Limitation of inrush currents
- Reduction of harmonics

These reactors are calculated with a voltage drop of 4% (400V), but they can work up to 690V.

Manufactured with low loss magnetic steel and copper windings, providing low watts loss and good efficiency.

They are impregnated with high solid content varnish that provide a good protection and avoid vibrations.

On request we can design and manufacture reactors with other characteristics, for other applications, with thermal switch, etc.

Range

CURRENT (A)	L (mH)	REFERENCE
10	2,928	**9010100290**
16	1,830	**9016100180**
20	1,464	**9020100140**
25	1,171	**9025100110**
32	0,915	**9032291500**
40	0,732	**9040273200**
50	0,586	**9050258600**
63	0,465	**9063246500**
80	0,366	**9080236600**
100	0,293	**9100229300**
125	0,234	**9125223400**
160	0,183	**9160218300**
200	0,146	**9200214600**

OTHER CHARACTERISTICS ON REQUEST SUBJECT TO AVAILABILITY AND POSSIBILITY

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Technical data

Maximum working voltage	690V
Voltage drop	4% (400V)
Protection against electric shock	Class I
Thermal class	B (130ºC) H (180ºC)
Rated ambient temperature	40ºC
Protection index	IP00
Frequency	50Hz
Inductance tolerance	8%
Maximum permanent overload	$1{,}17 \cdot I_N$
Dielectric strength	≥ 4kV
Ambient temperature of service *	-25°C ... 70°C
Storage temperature	-40°C ... 85°C
Cooling	**Natural air cooling** If the transformer is placed into a cabinet, it must have adequate ventilation

* For ambient temperatures higher than 40ºC it is necessary to apply a derating.

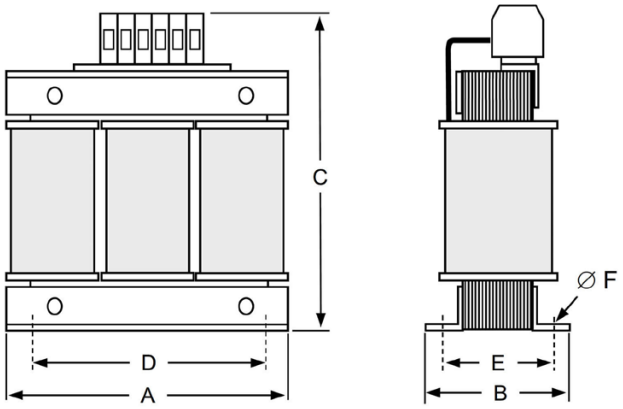
Constructive characteristics

Core made with electrical steel with high permeability and low losses
Multiple air gap in order to obtain low losses and good behavior against the core saturation
Windings in copper F (155°C) or H (180°C) thermal class
Impregnation with varnish class H (180°C) with high solids content, in order to obtain low noise, good isolating properties and good protection against adverse ambient
Connection with terminal blocks

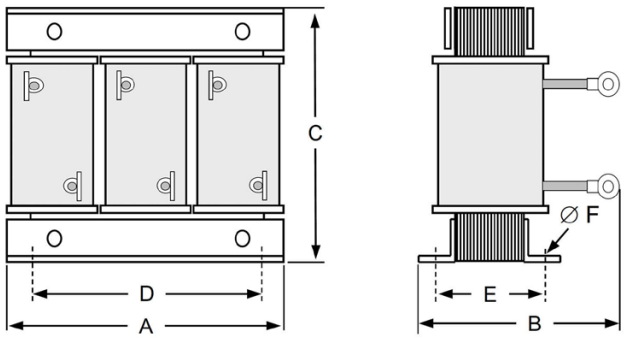
Standards

IEC/EN 61558-2-20
IEC/EN60076-6
RoHS Compliant

Dimensions



CURRENT	DIMENSIONS						WEIGHT
(A)	(mm)						(kg)
	A	B	C	D	E	F	
8	120	82	125	80	62	5	2,3
10	120	82	125	80	62	5	2,5
16	180	70	200	140	60	7	5,5
20	180	70	200	140	60	7	5,6
25	180	70	200	140	60	7	5,7
32	180	70	215	140	60	7	5,8
40	180	80	215	140	70	7	8,6
50	180	80	215	140	70	7	4,8
63	180	90	222	140	80	7	10,5
80	240	95	275	200	80	7	12,6
100	240	95	275	200	80	7	12,8
125	240	95	275	200	80	7	13,1



CURRENT	DIMENSIONS						WEIGHT
(A)	(mm)						(kg)
	A	B	C	D	E	F	
160	240	175	210	200	90	7	17,9
200	240	200	210	200	115	7	26,9

PROTECTING THE WORLD

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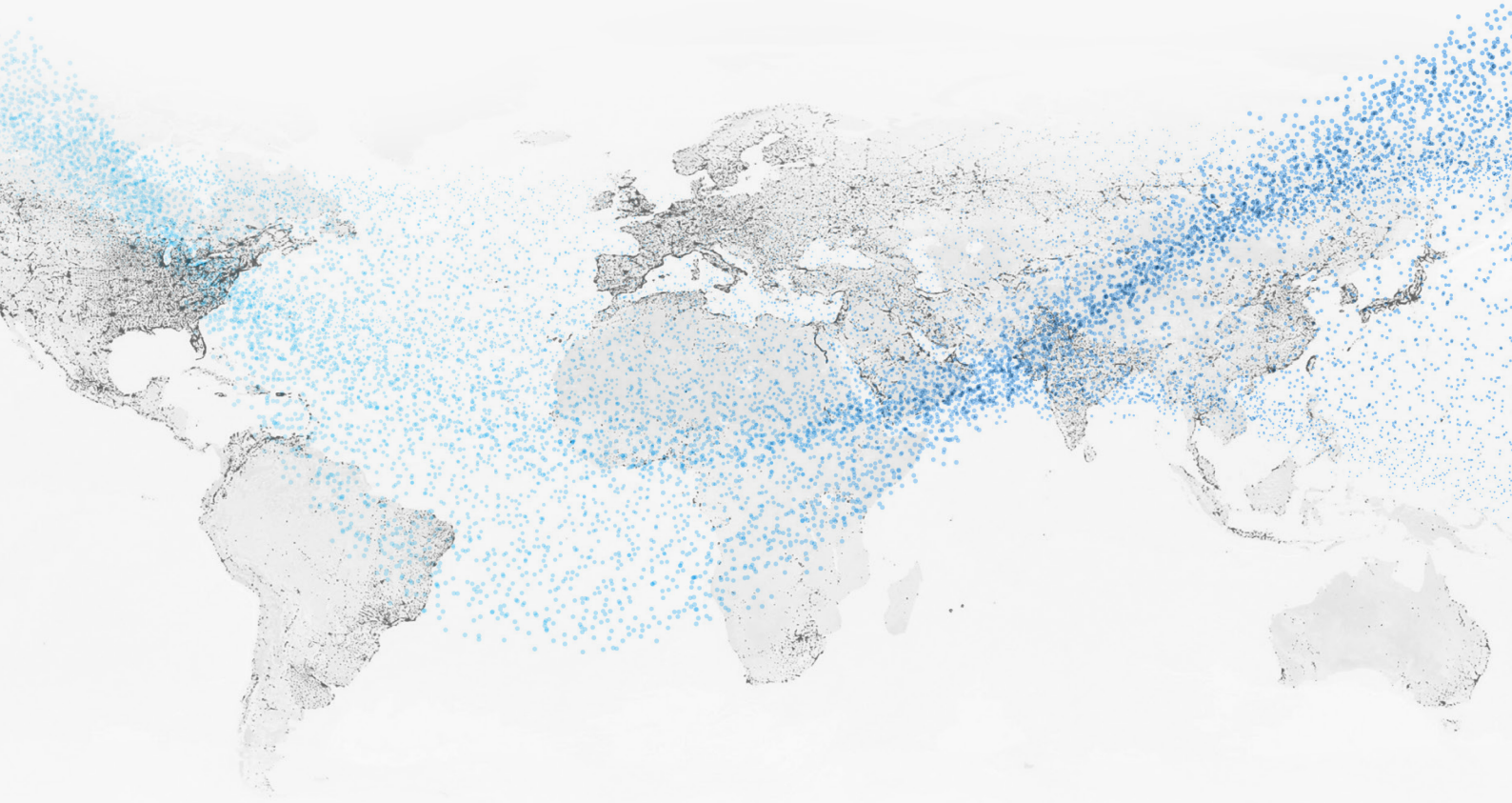

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MADE IN SPAIN

According to the waste of electrical and electronic equipment directive, electrical material should not be part of the usual waste. This symbol alerts users that these products should be recycled according to local environmental waste disposal regulations.

The "electro technical expert" logo marked on the products included in this data sheet indicates that the installation of these products must be carried out by expert personnel with specialized knowledge.

To prevent electrical hazards, carry out the installation without voltage.

Safety notice
Please capture the following QR code and read our safety notice carefully before installing our products.

The data reflected in this technical record are subject to the correct installation of the product in accordance with manufacturer's instructions, relevant installation standards and professional practices, maintained and used in applications for which they were made.

The products described in this document have been designed, developed and tested in accordance with specific standard. They are considered components that are integrated as part of installation, machine or equipment. The correct general operation of the referred product is responsibility of the manufacturer of the installation, machine or equipment.

DF ELECTRIC cannot guarantee the characteristics of an installation, machine or equipment that has been designed by a third party. Once a product has been selected, the user must verify that it is appropriate for its application, through the verifications and/or tests that it deems appropriate.

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