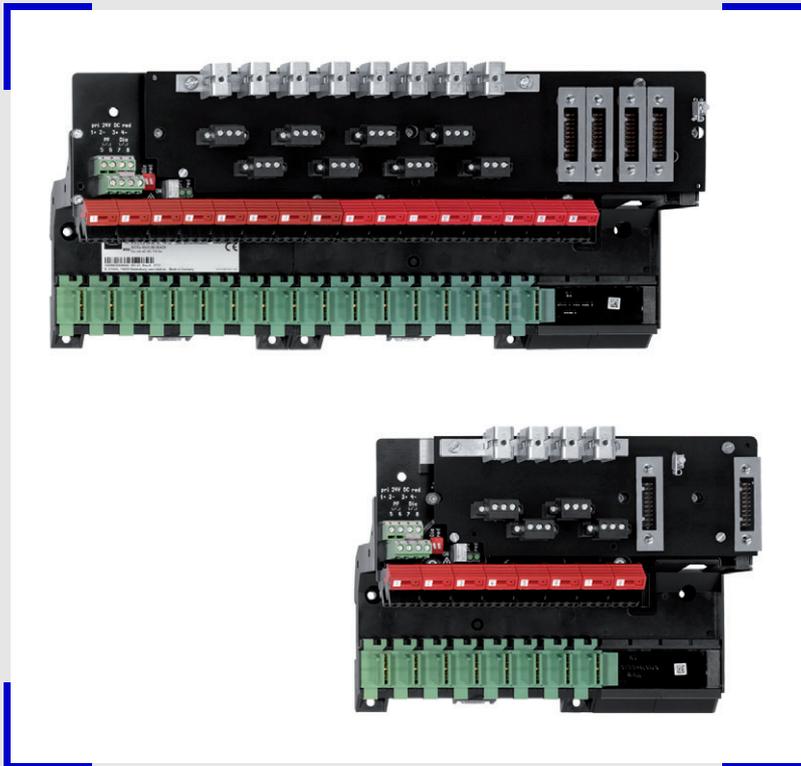


bus-Carrier

Series 9419, Yokogawa ALF111 version



www.stahl.de



15302E00

- > For Fieldbus Power Supplies Series 9412 for supplying FF H1 segments with power
- > For 4 or 8 fieldbus segments, simplex or redundant
- > With connecting plugs for Yokogawa ALF111 host sub-assembly
- > Slot for the diagnosis communication module (DCM) 9415 for the transmission of physical layer data via FF H1
- > Mounting on DIN rail or mounting plate
- > High availability through:
 - > Redundant auxiliary power supply with signalling contact
 - > Separate signalling contact for segment fault



A5

The bus-Carrier is a time- and cost-saving solution for installing the Fieldbus Power Supplies Series 9412 for supplying FF H1 fieldbus segments with power. With integrated plugs for connecting the AKB336 system cable to Yokogawa ALF111 host sub-assemblies. Carrier versions for 8 segments with simplex supply and for 4 or 8 segments with redundant supply are available. A special slot can be used to install a diagnosis communication module Series 9415, which will transmit the physical layer values measured by the Fieldbus Power Supplies online to a host via an FF H1 segment.

Zone	ATEX / IECEx					
	0	1	2	20	21	22
Installation in			x			

WebCode 9419B

Selection Table

Connection	Trunk supply	Number of segments	Number of slots	Order number
to Yokogawa ALF111 FF H1 hosts	simplex	8	8 FPS + 1 DCM	9419/08F-YO1-01A5
	redundant	4	8 FPS + 1 DCM	9419/04R-YO1-02A5
		8	16 FPS + 1 DCM	9419/08R-YO1-02A5

Note Shield clamps have to be ordered separately for carriers 08R and 04R.

Explosion Protection

Global (IECEX)

Gas	IECEX BVS 09.0042X Ex nA nC IIC T4 Gc
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Europe (ATEX)

Gas	BVS 09 ATEX E 100 X II 3 G Ex nA nC IIC T4 Gc
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Certifications and certificates

Certificates	IECEX, ATEX
Ship approval	DNV

Further parameters

Installation	Zone 2, safe area
Further information	see respective certificate and operating instructions

Technical Data

Electrical data

Auxiliary power	
Nominal voltage U_N	24 V DC
Voltage range	19 ... 32 V
Residual ripple within voltage range	$\leq 3.6 V_{SS}$
Redundant supply	yes, diode-decoupled
Polarity reversal protection	yes
Operation indication	2 LEDs, green "pri", "red"
Electromagnetic compatibility	Tested under the following standards and regulations: EN 61326-1 Use in industrial environment; NAMUR NE 21

Error detection

Power Fail (pri / red)	Contact "PF" (35 V /100 mA) closed in good conditions
Diagnostics	Contact "Dia" (35 V /100 mA) closed in good conditions

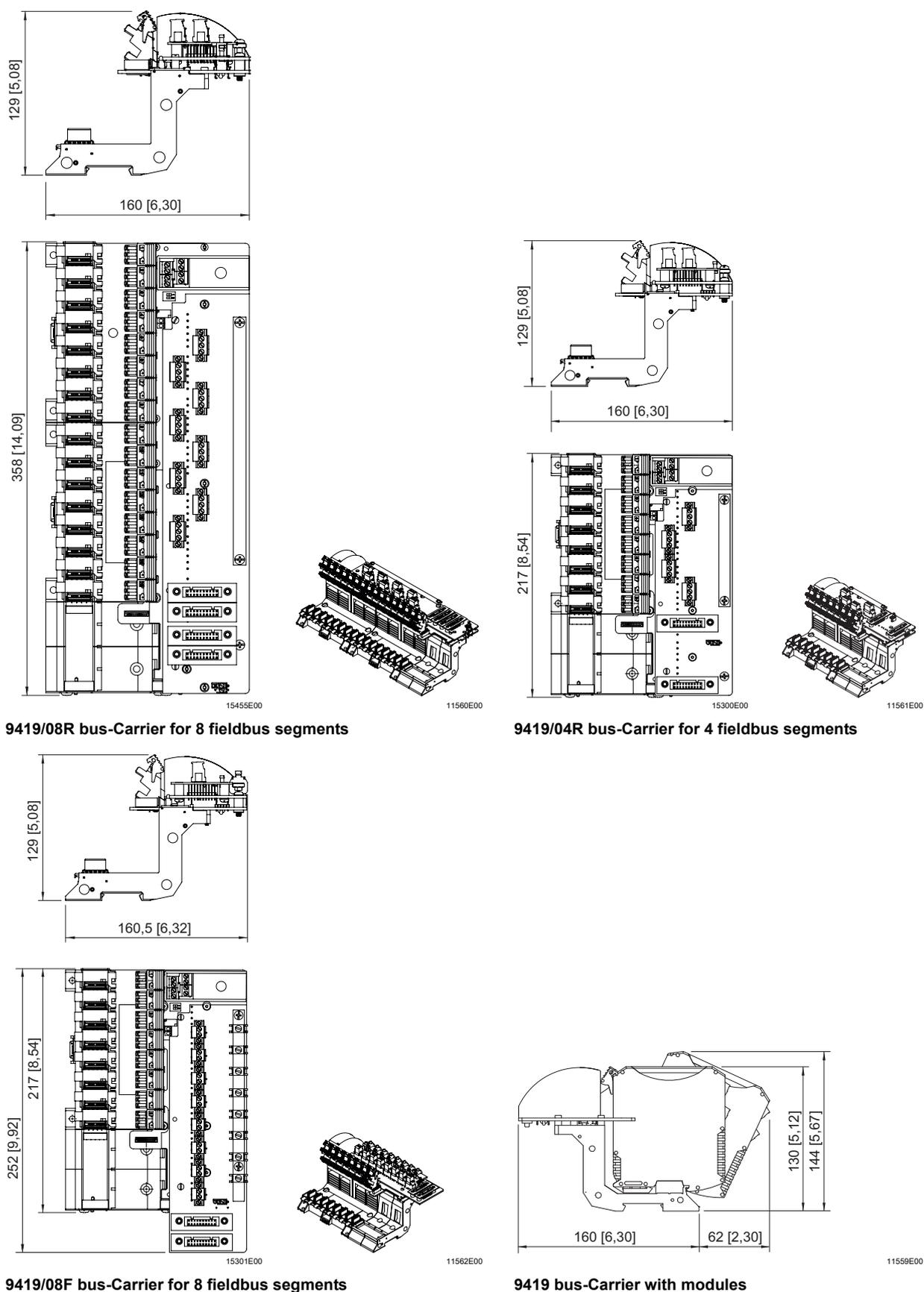
Ambient conditions

Ambient temperature	-20 ... +70 °C for further information, see operating instructions for Type 9412
Storage temperature	-40 ... +80 °C
Relative humidity (no condensation)	< 95 %

Mechanical data

Connection	
Trunk	to the terminals of the bus-Carrier or of the fieldbus power supply
Host / red. host	via system plug for Yokogawa AKB336 system cable
DCM	via ribbon cable using plug connectors
Shield	via integrated shield bus or to terminal connections "S"
Connection cross-section	pluggable screw terminals
	Single-wire connection
	- rigid 0.2 ... 2.5 mm ²
	- flexible 0.2 ... 2.5 mm ²
	- flexible with core end sleeves (without / with plastic sleeve) 0.25 ... 2.5 mm ²
	Two-wire connection
	- rigid 0.2 ... 1 mm ²
	- flexible 0.2 ... 1.5 mm ²
	- flexible with core end sleeves 0.25 .. 1 mm ²
Mounting type	on top hat rail (NS35/15, NS35/7.5) or mounting plate (4 x screws M6)
Mounting orientation	horizontal or vertical for further information, see operating instructions for Type 9412
Degree of protection	IP00
Terminals	IP20
Enclosure material	PA 6.6
Fire resistance (UL-94)	V0

Dimensional Drawings (All Dimensions in mm [inch]) - Subject to Alterations



Accessories and Spare Parts

Designation	Figure	Description	Order number	Weight kg
Fieldbus Power Supply Series 9412	 12783E00	fieldbus power supply and diagnostics	9412/00-310-11s	0.135
	 12809E00	fieldbus power supply, diagnostics and adjustable warning level	9412/00-320-11s	0.135
Diagnosis communication module Series 9415	 14406E00	transmission of diagnostics data for up to 8 segments via FF H1	9415/00-310-42	0.240
Spring-loaded clamping bracket	 15797E00	Spring-loaded clamping bracket KLBÜ C01	Klemmbügel	0.001

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.