

Unenclosed Fused Switch 400 and 630 Amps Suitable for NH style Fuse Links

BDNHP

Conforms to IEC 947

Regulations and Standards

for NH style Fuse Links or equivalent.
VDE 0113, IEC204, IEC408
VDE 0660, Part 107
IEC 947-1 and 3 EN 60947-1 and 3

Application

This new switch has been designed for use with NH type fuse links. BDNHP is a fully rated double break switch fuse. When the Switch Fuse is in the OFF position the fuse links are isolated on both sides.

These Switches are specifically designed for:

- Distribution Boards
- Switch Boards
- Load Centres
- Motor Control Centres
- Control Panels

as well as enclosed versions for remote distribution and isolation.

Design Features

The new design incorporates all the features you would expect of a modern Switch Fuse, but because of its innovative design it is very flexible in its application.

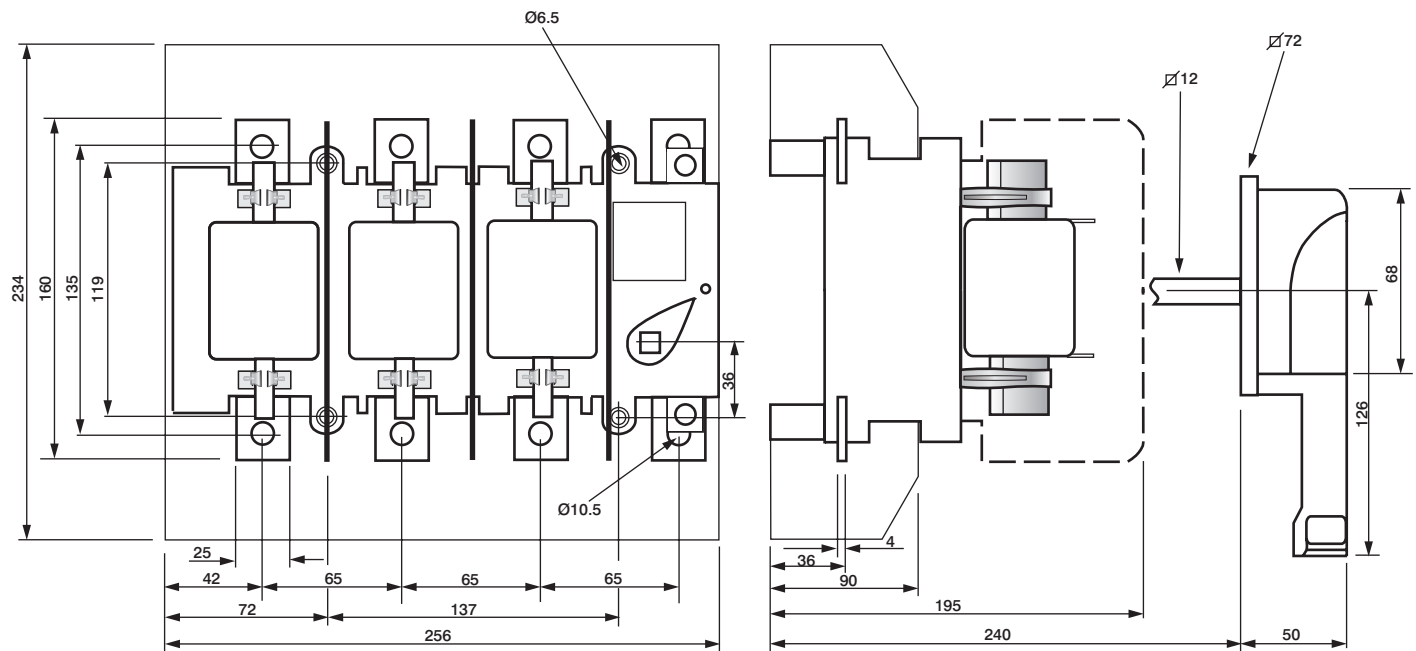
Features include:

- Wide lug terminals
- Visible contacts
- High breaking capacity
- Compact footprint
- Easy fuse fitting
- IP20 shrouding

Accessories

A range of accessories including Auxiliary Contacts, Extension Shafts, Neutral Links, Red/Yellow Handles are all available to order, but are not stocked.

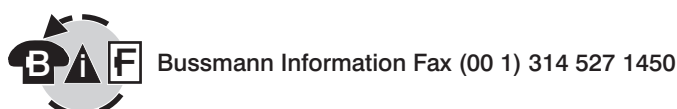
Dimensional Information for 400 Amp rating (mm) (not to scale)



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Characteristics for 400A

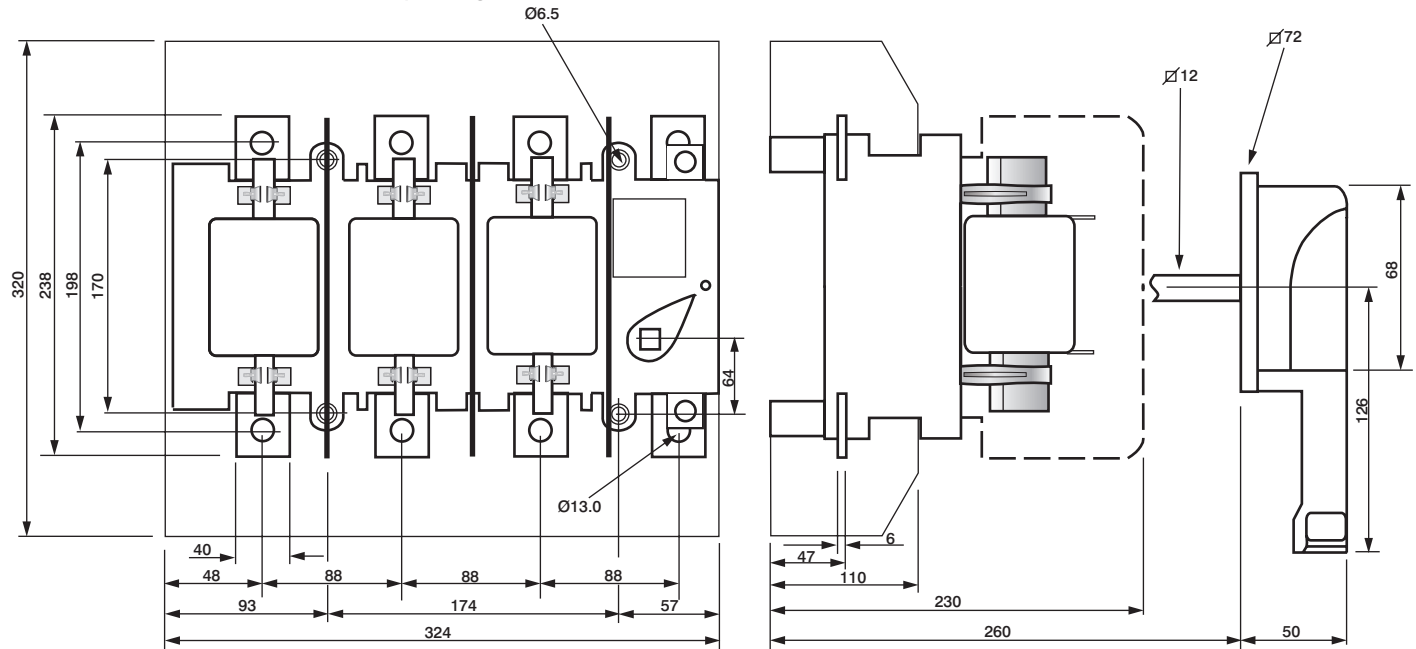
Electrical						
Rated current I_n open enclosed	45 deg C	400A	Rated operational voltage	690V	Frequency 40 - 60Hz	
	55 deg C	400A	Rated insulation voltage	1000V		
	45 deg C	360A	Test insulation voltage	3500V		
	55 deg C	360A				
Operational current	415V	400A	Operational current	415V 400A	Operational current	415V 400A
AC21, cos ϕ 0,95	500V	400A	AC22, cos ϕ 0,65	500V 400A	AC23, cos ϕ 0,35	500V 400A
IEC947-3	690V	400A	IEC947-3	690V 400A	IEC947-3	690V 400A
Breaking capacity	415V	600A	Breaking capacity	415V 1200A	Breaking capacity	415V 2400A
AC21, cos ϕ 0,95	500V	600A	AC22, cos ϕ 0,65	500V 1200A	AC23, cos ϕ 0,35	500V 2400A
IEC947-3	690V	600A	IEC947-3	690V 1200A	IEC947-3	690V 2400A
Operational power	415V	132kW	Short circuit making capacity (I_s)	34.5kA	Rated short time current	18.0kA
AC23, cos ϕ 0,35	500V	150kW	Rated fused S/C current RMS with max HRC fuse type gl	80kA 500A	1 sec. RMS value	
DIN Fuse size 2			Electrical endurance	415V 600 Ops	Electrical endurance	415V 400 Ops
			AC21, cos ϕ 0,95	500V 600 Ops	AC23, cos ϕ 0,35	500V 400 Ops
			AC22, cos ϕ 0,65	690V 300 Ops		690V Ops
Mechanical						
Mechanical Endurance	3 x 10 ³ Ops		Cable Size		Max. terminal torque	20 - 30 Nm
			Max. cross section	240mm ²	Max. lug width	38mm
Type 3-pole			Type 3-pole+N			
Art.-No.	141045		Art.-No.	141046		
Net weight	5.0kg		Net weight	5.5kg		
Packed weight			Packed weight			
Accessories						
Terminal Shrouds: 19135301 & 02 Red/Yellow handle: 190372			Additional extension shafts: (Standard shaft for depth up to 330mm)	19060302	Auxiliary Contacts: 191436 (1NO+1NC)	

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Dimensional Information for 630 Amp rating (mm) (not to scale)



Characteristics for 630A

Electrical					
Rated current I _e open	45 deg C	630A	Rated operational voltage	690V	
	55 deg C	630A		Rated insulation voltage	1000V
enclosed	45 deg C	570A	Test insulation voltage		3500V
	55 deg C	570A			
Operational current	415V	630A	Operational current	415V	630A
AC21, cos φ 0,95	500V	630A	AC22, cos φ 0,65	500V	630A
IEC947-3	690V	630A	IEC947-3	690V	630A
Breaking capacity	415V	945A	Breaking capacity	415V	1890A
AC21, cos φ 0,95	500V	945A	AC22, cos φ 0,65	500V	1890A
IEC947-3	690V	945A	IEC947-3	690V	1890A
Operational power	415V	250kW	Short circuit making capacity (I _s)	48.0kA	
AC23, cos φ 0,35	500V	300kW	Rated fused S/C current RMS with	80kA	
	690V	300kW	max HRC fuse type gI	800A	
DIN Fuse size 3			Electrical endurance	415V	400 Ops
			AC21, cos φ 0,95	500V	400 Ops
			AC22, cos φ 0,65	690V	200 Ops
Mechanical			Electrical endurance	415V	300 Ops
Mechanical Endurance	3 x 10 ³ Ops		AC23, cos φ 0,35	500V	300 Ops
				690V	Ops
Type 3-pole			Max. terminal torque	20 - 30 Nm	
Art.-No.	141055		Max. lug width	43mm	
Net weight	10.5kg				
Packed weight					
Accessories					
Terminal Shrouds: 19135401			Additional extension shafts:	19060302	Auxiliary Contacts: 191436 (1NO+1NC)
Red/Yellow handle: 190372			(Standard shaft for depth up to 400mm)		