Effective June 2018 Supersedes October 2017

BUSSMANN SERIES

NH Bases





Product description

Eaton's Bussmann[™] series NH Bases have been designed with thermoplastic bodies DIN-Rail and/or screw mounting (size 4 screw mounting only).

This range comes with accessories including phase barriers: IP20 finger safe protection kits (IEC only) and neutral links.

Microswitch also available for remote signaling of fuse link operation.

Standard features

- Complies with IEC 60269-1 and 2 fuse system A (NH Base), manufacturers type test certificates of compliance available.
- 3-pole integral NH00 Base available with reduced width
- Clip-in phase barriers, terminal shrouds and fuse covers available
- Vibration tested to IEC 60068-2-6 for marine use



Catalogue symbol

- 1-pole DIN-Rail and screw mounting: SD(size)-D
- 1-pole screw mounting only: SD(size)-S
- 3-pole DIN-Rail and screw mounting: TD(size)-D
- 3-pole Integral DIN-Rail and screw mounting: TD00-Dxl (see catalogue numbers for details)

Technical data

- Rated voltage:
 - 690 V a.c. IEC
 - 1000 V a.c. UL for SD1-D only
- Rated current: 160 to 1600 A
- Rated for fuse links with breaking capacity of 120 kA

Standard/Approvals

- IEC 60269-1 and 2
- VDE 0636-1 and 2

Packaging

- 1-pole: 3
- 3-pole and SD4: 1

Technical data

Fuse base catalogue numbers		SD00-D TD00-D TD00-DI	SD1-D TD1-D	SD2-D TD2-D	SD3-D TD3-D	SD4-S	SD4-S1600
Base		Glass filled P	'ВТ				
Contacts		Silver plated	copper				
Screw, nuts and washers		Zinc clear pla	ated steel				
	≤ 35°C	1	1	1	1	1	1
Derating temperature factors for maximum current	40°C	0.95	0.95	0.95	0.95	0.95	0.95
	50°C	0.85	D SD1-D SD2-D SD3-D TD1-D TD2-D TD3-D filled PBT plated copper ear plated steel 1 1 1 1 0.95 0.95 0.95 0.85 0.85 0.85 32W 45W 60W ✓ ✓ ✓ ✓ M10 M10 M12 n 32N • m 32N • m 32N • n ✓ ✓ ✓ ✓ 70 ° C ✓ ✓ ✓	0.85	0.85	0.85	
Maximum power acceptance		12W	32W	45W	60W	110W	145W
IP20 finger safe protection kits (IEC	only)	\checkmark	\checkmark	\checkmark	\checkmark	x	x
Terminal screw		M8	M10	M10	M12	M16	M16
Maximum tightening torque termina	al screw	10N•m	32N•m	32N•m	32N•m	56N•m	56N•m
F	DIN-Rail	\checkmark	\checkmark	\checkmark	\checkmark	x	x
Fixing	Screw	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
With microswitch 16A/250V	Fuse operated signal	\checkmark	\checkmark	\checkmark	\checkmark	×	x
Operating temperature range		-20 to 70°C					
Storage temperature range		-40 to 80°C					

NH Bases

1-pole and 3-pole non integral NH Bases - Catalogue numbers

Compatible NH Fuse link body size	Poles	Current (Amps)	DIN-Rail and screw mounting	Screw mounting only	Pack quantity	Compatible fuse links
00	1-pole	160	SD00-D	SD00-S	3	400/500/690 V NH gG and
	3-pole	160	TD00-D	N/A	1	— aM fuse links
1	1-pole	250	SD1-D	SD1-S	3	
	3-pole	250	TD1-D	N/A	1	
2	1-pole	400	SD2-D	SD2-S	3	
		400	SD2-DD*	N/A	3	
	3-pole	400	TD2-D	N/A	1	
		400	TD2-DD*	N/A	1	
3	1-pole	630	SD3-D*	SD3-S	3	
	3-pole	630	TD3-D*	N/A	1	
4	1-pole	1250	N/A	SD4-S	1	
		1600	N/A	SD4-S1600	1	

*Double fuse contact clips

1-pole and 3-pole non integral NH base - Catalogue numbers structure

Poles	Compatible NH Fuse links body size	Mounting type
SD = Single pole	00 = Compatible for NH fuse links body size 00	D = DIN-Rail and screw mounting
TD = Triple pole	1 = Compatible for NH fuse links body size 1	DD = Double fuse contact clips
		S = Screw mounting only
	2 = Compatible for NH fuse links body size 2	S1600 = Screw mounting only, 1600 A
	3 = Compatible for NH fuse links body size 3	
	4 = Compatible for NH fuse links body size 4 (Single pole only)	

For example catalogue number **SD2-D** represents a 1-pole **SD** NH Fuse base, suitable for a NH fuse link body size **2** fuse link, **S** screw mounting only

3-pole Integral NH Base parts - Catalogue numbers

Catalogue numbers	Line side mounting	Load side mounting	Compatible NH Fuse link body size	Poles	Current (Amps)	Pack quantity	Compatible NH fuse links
TD00-DI	Screw mounting holes	Screw mounting holes	00	3-pole	160	1	400/500/690 V NH gG and
TD00-DCI	Clinch nut	Clinch nut					aM fuse links
TD00-DPI	Pressure plate	Pressure plate	-				
TD00-DBI	70 mm fixed box lug	70 mm fixed box lug	-				
TD00-DCPI	Clinch nut	Pressure plate	-				
TD00-DCBI	Clinch nut	70 mm fixed box lug	-				
TD00-DPBI	Pressure plate	70 mm fixed box lug	-				

3-pole Integral NH Base parts - Catalogue numbers structure

Poles	Compatible NH Fuse links size	Line side mounting/ Load side mounting	Integral NH Base
TD = Triple pole	00 = Compatible for NH fuse links body size 00	I = Integral base screw mounting/screw mounting	
		C = Clinch nut/clinch nut	I = Integral NH Base
		P = Pressure plate/pressure plate	-
		B = 70 mm fixed box lug/70 mm fixed box lug	-
		CP = Clinch nut/pressure plate	-
		CB = Clinch nut/70 mm fixed box lug	-
		PB = Pressure plate/70 mm fixed box lug	-

For example catalogue number **TD00-CPI** represents a 3-pole **TD** NH Fuse base, suitable for a NH fuse link body size **00**, with **C** clinch nut load side mounting and **P** pressure plate load side mounting, **I** integral base

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Solid links catalogue numbers

NH fuse link body size	Current (Amps)	Catalogue numbers	Pack quantity
NHOO	160	SDL-00	3
NH1	250	SDL-1	3
NH2	400	SDL-2	3
NH3	630	SDL-3	3



Accessories

Fuse extraction handle NH fuse link body Catalogue size Current (Amps) numbers Pack quantity NH00-3 160 - 630 FEH 1



Fuse extraction handle

Shroud kits

offiouu kita				
Fuse base range	NH fuse link body size	Current (Amps)	Catalogue numbers	Description
SDOO	NHOO	160	SD00-SK	
SD1	NH1	250	SD12-SK	Kit includes 2 shrouds
SD2	NH2	400	SD12-SK	and 1 fuse cover
SD3	NH3	630	SD3-SK	



Shroud kit

Phase barrier kit

NH fuse link body size	Current (Amps)	Catalogue numbers	Pack quantity	Description
NHOO	160	SD00-PB	1	2-Phase barriers
NH1	250	SD12-PB	1	2-Phase barriers and 2 ganging links
NH2	400	SD12-PB	1	_
NH3	630	SD3-PB	1	_



Phase barrier



Ganging link

Accessories

IP Protection Kits

NH fuse link Current

Phase Catalogue Ganging Claure Intogral kit

body size	(Amps)	numbers	Fuse cover	Shroud	barrier	link	Integral kit	Description
NHOO	160	TD00-IP20	3	6	2			Triple pole protection kit for TD00-D with shrouds, fuse covers and phase barriers
		TD00-IP20I					1	Integral triple pole protection kit for TD00-DI with molded shrouds and phase barriers
		TD00-IP20IC	3				1	Integral triple pole protection kit for TD00-DI with fuse covers and molded shrouds and phase barriers
NH1	250	TD1-IP20	3	6	2	2		Triple pole protection kit with terminal shrouds, fuse cover
NH2	400	TD2-IP20						phase barriers and ganging links
NH3	630	TD3-IP20						





TD00-IP20IC

TD(size 1 to 3)-IP20

TD00-IP20

Catalogue numbers Pack quantity

1

12

12

Microswitch suitable for the following NH fuse links:

TD00-IP20I





BVL50



170H0236

• 400 Volts gG/gL

Microswitch

BVL50

170H0236

170H0238

- + 500 Volts gG/gL and aM $\,$
- 690 Volts gG/gL and aM.

Note: Microswitches fit onto the fuse gripping lugs and are applicable to all Bussmann series NH fuses.

Ratings

5 A 250 V a.c.

2 A 250 V a.c.

2 A 250 V a.c.

NH Bases

Dimensions (mm) 1-pole, size 00



NH fuse link bo	ody										
size	Pole	A	В	С	D	E	F	G	Н		J
NH00	1-pole	120	102	35.5	20	56	24	51	M8x20	25	8

Dimensions (mm) 1-pole, sizes 1, 2 and 3





Fuse body	V											
size	Poles/Type	А	В	С	D	E	F	G	Н		J	K
NH1	1-pole	199	175	56	35	79	37	78	M10x25	25	10	30
NULO	1 pole	224	199	56	35	79	37.5	86	M10x25	25	10	30
NH2	1-pole double clip	223	199	56	35	82	37	79	M10x25	25	10	30
NH3	1-pole	239	209	56	36	82	37.5	88	M12x30	25	10	30

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Dimensions (mm) 1-pole, size 4







NH fuse link			_		_	_	_								
body size	Poles/Type	A	В	С	D	Ł	ŀ	G	Н		J	K	L	М	N
NULA	1-pole 1250A	295	255	90	52	105	47	122	M16x40	30	14	40	150	92	M12x40
NH4	1-pole 1600A	295	255	90	60	105	50	125	M16x40	30	14	40	150	92	M12x40

Dimensions (mm) 3-pole, size 00





NH fuse link body size	Poles/Type	А	В	С	D	E	F	G	Н	Ι	J	К	L	М	N	Р
NHOO	3-pole	120	102	35.5	20	56	24	51	M8x20	25	8	-	103.5	34	146	89

NH Bases

Dimensions (mm) 3-pole, sizes 1, 2 and 3



NH	Fuse	link
	i use	IIIIN

body size	Poles/Type	А	В	С	D	Е	F	G	Н	I	J	Κ	L	Μ	Ν	Р
NH1	3-pole	199	175	56	35	79	37	78	M10x25	25	10	30	188	66	245	125.5
NH2	3-pole	224	199	56	35	79	37.5	86	M10x25	25	10	30	188	66	245	125.5
	3-pole double clip	223	199	56	35	82	37	79	M10x25	25	10	30	188	66	245	125.5
NH3	3-pole	239	209	56	36	82	37.5	88	M12x30	25	10	30	221	82.5	260	137.5

Dimensions (mm) integral 3-pole, size 00





NH fuse link body size	Poles/Type	A	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	Р
NHOO	3-pole Integral	120	102	-	20	56	24	51	M8x20) =	7.5x10	63.5	97	32.3	146	90

Fixings dimensions (mm) for integral 3-pole NH Base





Pressure plate





Box lug



Clinch nut

Powering Business Worldwide

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