

Vertical design fuse switches NH-00 BTVC 160 A for 185 mm busbar spacing - one or three pole switching - reversible

Reference	Type	Depth	Switching	Connections	Fuse link
413.51.XX.02*	BTVC	NH-00	one pole	top/bottom reversible	NH-00
413.53.XX.02*	BTVC	NH-2			
413.54.XX.02*	BTVC	FS NH-00			
413.55.XX.02*	BTVC	FS NH-1/2/3	three pole	top/bottom reversible	NH-00
413.61.XX.02*	BTVC-DT	NH-00			
413.63.XX.02*	BTVC-DT	NH-2			
413.64.XX.02*	BTVC-DT	FS NH-00	FS NH-1/2/3		
413.65.XX.02*	BTVC-DT	FS NH-1/2/3			

XX: add code for terminal type (see page 16)

* with connection cover (see page 17)

BTVC (NH-00/2)

DEPTH NH-00 **DEPTH NH-2**

BTVC (FS NH-00/2)

DEPTH NH-00 **DEPTH NH-2**

BTVC-DT (NH-00/2)

DEPTH NH-00 **DEPTH NH-2**

BTVC-DT (FS NH-00/2)

DEPTH NH-00 **DEPTH NH-2**

Assembly drawing
for 185 mm
busbar spacing

SINGLE ADAPTER PLATE (for one rail)
Ref. 413.01.25

DOUBLE ADAPTER PLATE (for two rails)
Ref. 413.01.17

PANEL FRONT OPENING: 600 / 650

Fuse switch BTVC size 1/2/3

Technical data TRIVER LV fuse rails & fuse switches

Vertical design fuse switches NH-00
BTVC / BTVC-DT 160 A - 100mm / 185 mm busbar spacing- (fuse switches reference 423, 413)

IEC / EN 60947		Type →	BTVC / BTVC-DT						
			Type 423 (100 mm)			Type 413 (185 mm)			
Electrical characteristics	Rated operational voltage	U_e (V)	AC 400	AC 500	AC 690	AC 400	AC 500	AC 690	
	Rated operational current	I_e (A)	160	160	100	160	160	100	
	Conventional free air thermal current with fuses	I_{th} (A)	160	160	100	160	160	100	
	Conventional free air thermal current with solid links	I_{th} (A)	210						
	Rated frequency	(Hz)	50						
	Rated insulation voltage	U_i (V)	1000						
	Rated conditional short-circuit current	(kA_{eff})	50						
	Utilization category	--	AC-23B	AC-22B		AC-23B	AC-22B		
	Rated making capacity	(A)	1600	480	300	1600	480	300	
	Rated breaking capacity	(A)	1280	480	300	1280	480	300	
	Rated impulse withstand voltage	U_{imp} (kV)	8						
	Operating cycles with current	--	200	200	300	200	200	300	
Total power loss at I_{th} (without fuse)	P_v (W)	20	20	13	22	22	15		
Mechanical characteristics	Weight	(kg)	1,520			2,260			
	Busbar distance	(mm)	100			185			
	Panel front opening * (see picture on page 50)	(mm)	600/650			650			
	Operating cycles without current	--	1400	1400	1700	1400	1400	1700	
Fuse links	Size to IEC / EN 60269	--	00						
	Max. rated current (gL/gG)	I_n (A)	160	160	100	160	160	100	
	Max. permis. power loss per fuse-link	P_v (W)	12	12	12	12	12	12	
Terminals	Bolt terminal	Diameter	M8/M10						
		Cable lug (S/DIN 46235)	(mm ²)	10-95			10-150		
		Torque	(Nm)	12/20					
	Prism terminal	Terminal cross section	(mm ²)	16-70					
		Torque	(Nm)	2.5					
	V-terminal	Terminal cross section	(mm ²)	--			10-150		
		Torque	(Nm)	--			15		
	Bimetallic terminal	Terminal cross section	(mm ²)	10-70					
Torque		(Nm)	12						
Protection level	Front operated switchgear fitted	--	IP20						
Operating Conditions	Ambient temperature	(°C)	-25 to +55 *(1)						
	Rated operating mode	--	continuous operation						
	Actuation	--	dependant manual operation						
	Mounting position	--	vertical / horizontal						
	Altitude	(m)	up to 2000						
	Pollution degree	--	3						
	Overvoltage category	--	III						

*(1) 35°C normal temperature, at 55°C with reduced operating current