

Vertical design fuse switches NH-00 BTVC 160 A for 100 mm busbar spacing - one or three pole switching - reversible

Reference	Type	Switching	Connections	Fuse link
423.51.XX.YY	BTVC	one pole	top / bottom reversible	NH - 00
423.61.XX.YY	BTVC-DT	three pole	top / bottom reversible	NH - 00

XX: add code for terminal type (see page 10)
YY: add code for accessories (see page 10-11)

BTVC

Assembly drawing of 185 mm busbar spacing

BTVC-DT

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)	10-95			10-150		
		Torque	12/20					
	Prism terminal	Terminal cross section	16-70					
		Torque	2.5					
	V-terminal	Terminal cross section	--			10-150		
		Torque	--			15		
	Bimetallic terminal	Terminal cross section	10-70					
Torque		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