

# VBF02

switch-disconnector VBF - 3 - 690 V 12 A -  
padlockable black handle



## Main

Range of product	TeSys VARIO
Device short name	Main switch disconnector
Product or component type	Rotary switch disconnector
Performance level	High performance
Poles description	3P
Network type	AC
Rotary handle mounting style	Direct
Handle colour	Black
Handle front plate colour	Black
[I <sub>th</sub> ] conventional free air thermal current	12 A
Suitability for isolation	Yes

## Complementary

Kit composition	Black handle V02 switch body
Rotary handle padlocking	Upto 3 padlocks
Mounting support	Door for rotary handle Symmetrical rail for body
[U <sub>e</sub> ] rated operational voltage	690 V AC 50/60 Hz
[U <sub>imp</sub> ] rated impulse withstand voltage	8 kV
[I <sub>the</sub> ] conventional enclosed thermal current	10 A

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.



1 A at 220 V L/R = 1 ms DC-2 3  
1 A at 220 V L/R = 1 ms DC-3 3  
1 A at 220 V L/R = 1 ms DC-4 3  
1 A at 220 V L/R = 1 ms DC-5 3  
10 A at 220 V L/R = 1 ms DC-1 3  
10 A at 60 V L/R = 1 ms DC-2 1  
10 A at 60 V L/R = 1 ms DC-3 1  
10 A at 60 V L/R = 1 ms DC-4 1  
10 A at 60 V L/R = 1 ms DC-5 1  
12 A at 110 V L/R = 1 ms DC-1 3  
12 A at 110 V L/R = 1 ms DC-2 3  
12 A at 110 V L/R = 1 ms DC-3 3  
12 A at 110 V L/R = 1 ms DC-4 3  
12 A at 110 V L/R = 1 ms DC-5 3  
12 A at 230...690 V AC-21A  
12 A at 230...690 V AC-22A  
12 A at 24 V L/R = 1 ms DC-1 1  
12 A at 24 V L/R = 1 ms DC-1 2  
12 A at 24 V L/R = 1 ms DC-1 3  
12 A at 24 V L/R = 1 ms DC-2 1  
12 A at 24 V L/R = 1 ms DC-2 2  
12 A at 24 V L/R = 1 ms DC-2 3  
12 A at 24 V L/R = 1 ms DC-3 1  
12 A at 24 V L/R = 1 ms DC-3 2  
12 A at 24 V L/R = 1 ms DC-3 3  
12 A at 24 V L/R = 1 ms DC-4 1  
12 A at 24 V L/R = 1 ms DC-4 2  
12 A at 24 V L/R = 1 ms DC-4 3  
12 A at 24 V L/R = 1 ms DC-5 1  
12 A at 24 V L/R = 1 ms DC-5 2  
12 A at 24 V L/R = 1 ms DC-5 3  
12 A at 48 V L/R = 1 ms DC-1 1  
12 A at 48 V L/R = 1 ms DC-1 2  
12 A at 48 V L/R = 1 ms DC-1 3  
12 A at 48 V L/R = 1 ms DC-2 1  
12 A at 48 V L/R = 1 ms DC-2 2  
12 A at 48 V L/R = 1 ms DC-2 3  
12 A at 48 V L/R = 1 ms DC-3 1  
12 A at 48 V L/R = 1 ms DC-3 2  
12 A at 48 V L/R = 1 ms DC-3 3  
12 A at 48 V L/R = 1 ms DC-4 1  
12 A at 48 V L/R = 1 ms DC-4 2  
12 A at 48 V L/R = 1 ms DC-4 3  
12 A at 48 V L/R = 1 ms DC-5 1  
12 A at 48 V L/R = 1 ms DC-5 2  
12 A at 48 V L/R = 1 ms DC-5 3  
12 A at 60 V L/R = 1 ms DC-1 1  
12 A at 60 V L/R = 1 ms DC-1 2  
12 A at 60 V L/R = 1 ms DC-1 3  
12 A at 60 V L/R = 1 ms DC-2 2  
12 A at 60 V L/R = 1 ms DC-2 3  
12 A at 60 V L/R = 1 ms DC-3 2  
12 A at 60 V L/R = 1 ms DC-3 3  
12 A at 60 V L/R = 1 ms DC-4 2  
12 A at 60 V L/R = 1 ms DC-4 3  
12 A at 60 V L/R = 1 ms DC-5 2  
12 A at 60 V L/R = 1 ms DC-5 3  
3 A at 110 V L/R = 1 ms DC-2 2  
3 A at 110 V L/R = 1 ms DC-3 2  
3 A at 110 V L/R = 1 ms DC-4 2  
3 A at 110 V L/R = 1 ms DC-5 2  
3 A at 250 V L/R = 1 ms DC-1 2  
7 A at 220 V L/R = 1 ms DC-1 2  
8 A at 110 V L/R = 1 ms DC-1 2  
8 A at 250 V L/R = 1 ms DC-1 3  
10.6 A at 230 V AC-23A  
10.6 A at 240 V AC-23A  
8.1 A at 400 V AC-23A  
8.1 A at 415 V AC-23A  
8.6 A at 690 V AC-23A  
8.9 A at 500 V AC-23A  
0.3 A at 250 V L/R = 1 ms DC-2 1  
0.3 A at 250 V L/R = 1 ms DC-3 1  
0.3 A at 250 V L/R = 1 ms DC-4 1  
0.3 A at 250 V L/R = 1 ms DC-5 1  
0.4 A at 220 V L/R = 1 ms DC-2 1  
0.4 A at 220 V L/R = 1 ms DC-3 1  
0.4 A at 220 V L/R = 1 ms DC-4 1  
0.4 A at 220 V L/R = 1 ms DC-5 1  
0.4 A at 250 V L/R = 1 ms DC-2 2  
0.4 A at 250 V L/R = 1 ms DC-3 2  
0.4 A at 250 V L/R = 1 ms DC-4 2  
0.4 A at 250 V L/R = 1 ms DC-5 2  
0.4 A at 250 V L/R = 1 ms DC-1 1  
0.4 A at 250 V L/R = 1 ms DC-1 2  
1.2 A at 250 V L/R = 1 ms DC-2 3

Rated operational power in W	3 W at 230 V AC-23A 3 W at 240 V AC-23A 3 W at 400...415 V AC-3 4 W at 400 V AC-23A 4 W at 415 V AC-23A 4 W at 500 V AC-3 1.5 W at 230...240 V AC-3 5.5 W at 500 V AC-23A 5.5 W at 690 V AC-3 7.5 W at 690 V AC-23A
Intermittent duty class	30
Making capacity	120 A at 400 V (AC-21A) 120 A at 400 V (AC-22A) 120 A at 400 V (AC-23A)
[Icm] rated short-circuit making capacity	1 kA at 400 V at Ipeak
[Icw] rated short-time withstand current	300 kA at 400 V during 1 s
Rated conditional short-circuit current	10 kA at 400 V - associated fuse 12 A aM 10 kA at 400 V - associated fuse 12 A gG
Breaking capacity	120 kA at 400 V AC-21A 120 kA at 400 V AC-22A 120 kA at 400 V AC-23A
Mechanical durability	100000 cycles
Electrical durability	100000 cycles on AC-21 30000 cycles on DC-1 30000 cycles on DC-2 30000 cycles on DC-3 30000 cycles on DC-4 30000 cycles on DC-5
Connections - terminals	Screw terminals power circuit: cable 10 mm <sup>2</sup> - cable stiffness: solid - Screw terminals power circuit: cable 6 mm <sup>2</sup> - cable stiffness: flexible - with cable end
Tightening torque	2.1 N.m power circuit: - on screw terminals
Provision for padlocking	Padlockable
Marking	0 - 1
Handle front plate dimension	60 x 60 mm
Product weight	0.25 kg

## Environment

Standards	IEC 60947-3
Product certifications	CCC CSA GL UL
Protective treatment	TC
IP degree of protection	IP20 with protection shrouds conforming to IEC 60529 IP65
Shock resistance	30 gn conforming to IEC 60068-2-27
Vibration resistance	1 gn conforming to IEC 60068-2-6
Ambient air temperature for operation	-20...50 °C
Fire resistance	960 °C conforming to IEC 60695-2-1