Product data sheet
Characteristics

VBD02
switch-disconnector VBD - 3 - 690 V 12 A - padlockable black handle

Main

Commercial Status	Commercialised
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
[Ith] 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	Symmetrical rail for body Door for rotary handle
[Ue] rated operational voltage	690 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ithe] conventional enclosed thermal current	10 A

[Ie] rated operational current	1.5 A at 220 V L/R = 1 ms DC-1 1 1.5 A at 110 V L/R = 1 ms DC-5 1 1.5 A at 110 V L/R = 1 ms DC-4 1 1.5 A at 110 V L/R = 1 ms DC-3 1 1.5 A at 110 V L/R = 1 ms DC-2 1 1.5 A at 110 V L/R = 1 ms DC-1 1 1.4 A at 220 V L/R = 1 ms DC-5 2 1.4 A at 220 V L/R = 1 ms DC-4 2 1.4 A at 220 V L/R = 1 ms DC-3 2 1.4 A at 220 V L/R = 1 ms DC-2 2 1.2 A at 250 V L/R = 1 ms DC-5 3 1.2 A at 250 V L/R = 1 ms DC-4 3 1.2 A at 250 V L/R = 1 ms DC-3 3 1.2 A at 250 V L/R = 1 ms DC-2 3 0.6 A at 250 V L/R = 1 ms DC-1 1 0.4 A at 250 V L/R = 1 ms DC-5 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-3 2 0.4 A at 250 V L/R = 1 ms DC-2 2 0.4 A at 220 V L/R = 1 ms DC-5 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-3 1 0.4 A at 220 V L/R = 1 ms DC-2 1 0.3 A at 250 V L/R = 1 ms DC-5 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-3 1 0.3 A at 250 V L/R = 1 ms DC-2 1 8.9 A at 500 V AC-23A 8.6 A at 690 V AC-23A 8.1 A at 415 V AC-23A 8.1 A at 400 V AC-23A 10.6 A at 240 V AC-23A 10.6 A at 230 V AC-23A 8 A at 250 V L/R = 1 ms DC-1 3 8 A at 110 V L/R = 1 ms DC-1 2 7 A at 220 V L/R = 1 ms DC-1 2 3 A at 250 V L/R = 1 ms DC-1 2 3 A at 110 V L/R = 1 ms DC-5 2 3 A at 110 V L/R = 1 ms DC-4 2 3 A at 110 V L/R = 1 ms DC-3 2 3 A at 110 V L/R = 1 ms DC-2 2 12 A at 60 V L/R = 1 ms DC-5 3 12 A at 60 V L/R = 1 ms DC-5 2 12 A at 60 V L/R = 1 ms DC-4 3 12 A at 60 V L/R = 1 ms DC-4 2 12 A at 60 V L/R = 1 ms DC-3 3 12 A at 60 V L/R = 1 ms DC-3 2 12 A at 60 V L/R = 1 ms DC-2 3 12 A at 60 V L/R = 1 ms DC-2 2 12 A at 60 V L/R = 1 ms DC-1 3 12 A at 60 V L/R = 1 ms DC-1 2 12 A at 60 V L/R = 1 ms DC-1 1 12 A at 48 V L/R = 1 ms DC-5 3 12 A at 48 V L/R = 1 ms DC-5 2 12 A at 48 V L/R = 1 ms DC-5 1 12 A at 48 V L/R = 1 ms DC-4 3 12 A at 48 V L/R = 1 ms DC-4 2 12 A at 48 V L/R = 1 ms DC-4 1 12 A at 48 V L/R = 1 ms DC-3 3 12 A at 48 V L/R = 1 ms DC-3 2 12 A at 48 V L/R = 1 ms DC-3 1 12 A at 48 V L/R = 1 ms DC-2 3 12 A at 48 V L/R = 1 ms DC-2 2 12 A at 48 V L/R = 1 ms DC-2 1 12 A at 48 V L/R = 1 ms DC-1 3 12 A at 48 V L/R = 1 ms DC-1 2 12 A at 48 V L/R = 1 ms DC-1 1 12 A at 24 V L/R = 1 ms DC-5 3 12 A at 24 V L/R = 1 ms DC-5 2 12 A at 24 V L/R = 1 ms DC-5 1 12 A at 24 V L/R = 1 ms DC-4 3 12 A at 24 V L/R = 1 ms DC-4 2 12 A at 24 V L/R = 1 ms DC-4 1 12 A at 24 V L/R = 1 ms DC-3 3 12 A at 24 V L/R = 1 ms DC-3 2 12 A at 24 V L/R = 1 ms DC-3 1 12 A at 24 V L/R = 1 ms DC-2 3 12 A at 24 V L/R = 1 ms DC-2 2 12 A at 24 V L/R = 1 ms DC-2 1 12 A at 24 V L/R = 1 ms DC-1 3 12 A at 24 V L/R = 1 ms DC-1 2 12 A at 24 V L/R = 1 ms DC-1 1 12 A at 230...690 V AC-22A 12 A at 230...690 V AC-21A 12 A at 110 V L/R = 1 ms DC-5 3

Rated operational power in W	7.5 kW at 690 V AC-23A 5.5 kW at 690 V AC-3 5.5 kW at 500 V AC-23A 1.5 kW at 230...240 V AC-3 4 kW at 500 V AC-3 4 kW at 415 V AC-23A 4 kW at 400 V AC-23A 3 kW at 400...415 V AC-3 3 kW at 240 V AC-23A 3 kW at 230 V AC-23A
Intermittent duty class	30
Making capacity	120 A at 400 V (AC-23A) 120 A at 400 V (AC-22A) 120 A at 400 V (AC-21A)
[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 gG 10 kA at 400 V - associated fuse 12 A aM
Breaking capacity	120 kA at 400 V AC-23A 120 kA at 400 V AC-22A 120 kA at 400 V AC-21A
Mechanical durability	100000 cycles
Electrical durability	30000 cycles on DC-5 30000 cycles on DC-4 30000 cycles on DC-3 30000 cycles on DC-2 30000 cycles on DC-1 100000 cycles on AC-21
Connections - terminals	Power circuit: screw terminals cable 6 mm² - cable stiffness: flexible - with cable end Power circuit: screw terminals cable 10 mm² - cable stiffness: solid -
Tightening torque	Power circuit: 2.1 N.m - on screw terminals
Provision for padlocking	Padlockable
Marking	0 - 1
Handle front plate dimension	60 x 60 mm
Height	60 mm
Width	60 mm
Product weight	0.215 kg

Environment

Standards	IEC 60947-3
Product certifications	CCC CSA GL UL
Protective treatment	TC
IP degree of protection	IP65 IP20 with protection shrouds conforming to IEC 60529
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

RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	0733

Contractual warranty

Period	18 months