

VCF6

switch-disconnector VCF - 3 poles - 690 V 175 A - padlockable long red 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
Switch function	Emergency stop
Poles description	3P
Network type	AC
Rotary handle mounting style	Direct
Handle colour	Red
Handle front plate colour	Yellow
[I _{th}] conventional free air thermal current	175 A
Suitability for isolation	Yes

Complementary

Kit composition	Red handle V6 switch body
Control type	With emergency stop
Rotary handle padlocking	Upto 3 padlocks
Mounting support	Symmetrical rail for body Door for rotary handle
[U _e] rated operational voltage	690 V AC 50/60 Hz
[U _{imp}] rated impulse withstand voltage	8 kV
[I _{the}] conventional enclosed thermal current	140 A

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96.6 A at 230 V AC-23A
92.7 A at 240 V AC-23A
2.4 A at 220 V L/R = 1 ms DC-5 1
2.4 A at 220 V L/R = 1 ms DC-4 1
2.4 A at 220 V L/R = 1 ms DC-3 1
2.4 A at 220 V L/R = 1 ms DC-2 1
1.8 A at 250 V L/R = 1 ms DC-5 1
1.8 A at 250 V L/R = 1 ms DC-4 1
1.8 A at 250 V L/R = 1 ms DC-3 1
1.8 A at 250 V L/R = 1 ms DC-2 1
83 A at 400 V AC-23A
80 A at 415 V AC-23A
80 A at 110 V L/R = 1 ms DC-5 3
80 A at 110 V L/R = 1 ms DC-4 3
80 A at 110 V L/R = 1 ms DC-3 3
80 A at 110 V L/R = 1 ms DC-2 3
8 A at 250 V L/R = 1 ms DC-5 2
8 A at 250 V L/R = 1 ms DC-4 2
8 A at 250 V L/R = 1 ms DC-3 2
8 A at 250 V L/R = 1 ms DC-2 2
8 A at 220 V L/R = 1 ms DC-5 2
8 A at 220 V L/R = 1 ms DC-4 2
8 A at 220 V L/R = 1 ms DC-3 2
8 A at 220 V L/R = 1 ms DC-2 2
79 A at 500 V AC-23A
70 A at 60 V L/R = 1 ms DC-5 1
70 A at 60 V L/R = 1 ms DC-4 1
70 A at 60 V L/R = 1 ms DC-3 1
70 A at 60 V L/R = 1 ms DC-2 1
70 A at 60 V L/R = 1 ms DC-1 1
61 A at 250 V L/R = 1 ms DC-1 3
50 A at 220 V L/R = 1 ms DC-1 2
49 A at 690 V AC-23A
40 A at 250 V L/R = 1 ms DC-1 2
24 A at 110 V L/R = 1 ms DC-5 2
24 A at 110 V L/R = 1 ms DC-4 2
24 A at 110 V L/R = 1 ms DC-3 2
24 A at 110 V L/R = 1 ms DC-2 2
175 A at 60 V L/R = 1 ms DC-5 3
175 A at 60 V L/R = 1 ms DC-5 2
175 A at 60 V L/R = 1 ms DC-4 3
175 A at 60 V L/R = 1 ms DC-4 2
175 A at 60 V L/R = 1 ms DC-3 3
175 A at 60 V L/R = 1 ms DC-3 2
175 A at 60 V L/R = 1 ms DC-2 3
175 A at 60 V L/R = 1 ms DC-2 2
175 A at 60 V L/R = 1 ms DC-1 3
175 A at 60 V L/R = 1 ms DC-1 2
175 A at 48 V L/R = 1 ms DC-5 3
175 A at 48 V L/R = 1 ms DC-5 2
175 A at 48 V L/R = 1 ms DC-5 1
175 A at 48 V L/R = 1 ms DC-4 3
175 A at 48 V L/R = 1 ms DC-4 2
175 A at 48 V L/R = 1 ms DC-4 1
175 A at 48 V L/R = 1 ms DC-3 3
175 A at 48 V L/R = 1 ms DC-3 2
175 A at 48 V L/R = 1 ms DC-3 1
175 A at 48 V L/R = 1 ms DC-2 3
175 A at 48 V L/R = 1 ms DC-2 2
175 A at 48 V L/R = 1 ms DC-2 1
175 A at 48 V L/R = 1 ms DC-1 3
175 A at 48 V L/R = 1 ms DC-1 2
175 A at 48 V L/R = 1 ms DC-1 1
175 A at 24 V L/R = 1 ms DC-5 3
175 A at 24 V L/R = 1 ms DC-5 2
175 A at 24 V L/R = 1 ms DC-5 1
175 A at 24 V L/R = 1 ms DC-4 3
175 A at 24 V L/R = 1 ms DC-4 2
175 A at 24 V L/R = 1 ms DC-4 1
175 A at 24 V L/R = 1 ms DC-3 3
175 A at 24 V L/R = 1 ms DC-3 2
175 A at 24 V L/R = 1 ms DC-3 1
175 A at 24 V L/R = 1 ms DC-2 3
175 A at 24 V L/R = 1 ms DC-2 2
175 A at 24 V L/R = 1 ms DC-2 1
175 A at 24 V L/R = 1 ms DC-1 3
175 A at 24 V L/R = 1 ms DC-1 2
175 A at 24 V L/R = 1 ms DC-1 1
175 A at 110 V L/R = 1 ms DC-1 3
175 A at 110 V L/R = 1 ms DC-1 2
160 A at 230...690 V AC-22A
160 A at 230...690 V AC-21A
15 A at 220 V L/R = 1 ms DC-1 1
14 A at 250 V L/R = 1 ms DC-5 3
14 A at 250 V L/R = 1 ms DC-4 3

Rated operational power in W	55 kW at 500 V AC-23A 45 kW at 690 V AC-23A 45 kW at 500 V AC-3 45 kW at 415 V AC-23A 45 kW at 400 V AC-23A 37 kW at 690 V AC-3 37 kW at 400...415 V AC-3 30 kW at 240 V AC-23A 30 kW at 230...240 V AC-3 30 kW at 230 V AC-23A
Intermittent duty class	30
Making capacity	1750 A at 400 V (AC-23A) 1750 A at 400 V (AC-22A) 1750 A at 400 V (AC-21A)
[Icm] rated short-circuit making capacity	2.8 kA at 400 V at Ipeak
[Icw] rated short-time withstand current	2100 kA at 400 V during 1 s
Rated conditional short-circuit current	10 kA at 400 V - associated fuse 200 A gG 10 kA at 400 V - associated fuse 200 A aM
Breaking capacity	1400 kA at 400 V AC-23A 1400 kA at 400 V AC-22A 1400 kA at 400 V AC-21A
Mechanical durability	30000 cycles
Electrical durability	30000 cycles on DC-1...5 30000 cycles on AC-21
Connections - terminals	Power circuit: screw terminals cable 95 mm ² - cable stiffness: solid - Power circuit: screw terminals cable 70 mm ² - cable stiffness: flexible - with cable end
Tightening torque	Power circuit: 22.6 N.m - on screw terminals
Provision for padlocking	Padlockable
Marking	0 - 1
Handle front plate dimension	90 x 90 mm
Height	90 mm
Width	90 mm
Product weight	1.2 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)	0738

Contractual warranty

Period	18 months
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