Product data sheet
Characteristics

VCDN20
switch-disconnector VCDN - 3 poles - 690 V 20 A - padlockable 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	Standard
Switch function	Emergency stop
Poles description	3P
Network type	AC
Rotary handle mounting style	Direct
Handle colour	Red
Handle front plate colour	Yellow
[Ith] conventional free air thermal current	20 A
Suitability for isolation	Yes

Complementary

Kit composition	Red handle VN20 switch body
Control type	With emergency stop
Rotary handle padlocking	Upto 3 padlocks
Mounting support	Symmetrical rail for body Door for rotary handle
[Ithe] conventional enclosed thermal current	16 A

[Ie] rated operational current	0.7 A at 250 V L/R = 1 ms DC-1 1 0.6 A at 250 V L/R = 1 ms DC-5 2 0.6 A at 250 V L/R = 1 ms DC-4 2 0.6 A at 250 V L/R = 1 ms DC-3 2 0.6 A at 250 V L/R = 1 ms DC-2 2 0.5 A at 220 V L/R = 1 ms DC-5 1 0.5 A at 220 V L/R = 1 ms DC-4 1 0.5 A at 220 V L/R = 1 ms DC-3 1 0.5 A at 220 V L/R = 1 ms DC-2 1 0.4 A at 250 V L/R = 1 ms DC-5 1 0.4 A at 250 V L/R = 1 ms DC-4 1 0.4 A at 250 V L/R = 1 ms DC-3 1 0.4 A at 250 V L/R = 1 ms DC-2 1 2.4 A at 250 V L/R = 1 ms DC-5 3 2.4 A at 250 V L/R = 1 ms DC-4 3 2.4 A at 250 V L/R = 1 ms DC-3 3 2.4 A at 250 V L/R = 1 ms DC-2 3 12.3 A at 690 V AC-23A 11.9 A at 500 V AC-23A 1.5 A at 220 V L/R = 1 ms DC-5 2 1.5 A at 220 V L/R = 1 ms DC-4 2 1.5 A at 220 V L/R = 1 ms DC-3 2 1.5 A at 220 V L/R = 1 ms DC-2 2 8 A at 220 V L/R = 1 ms DC-1 2 4 A at 250 V L/R = 1 ms DC-1 2 4 A at 110 V L/R = 1 ms DC-5 2 4 A at 110 V L/R = 1 ms DC-4 2 4 A at 110 V L/R = 1 ms DC-3 2 4 A at 110 V L/R = 1 ms DC-2 2 20 A at 60 V L/R = 1 ms DC-5 3 20 A at 60 V L/R = 1 ms DC-5 2 20 A at 60 V L/R = 1 ms DC-4 3 20 A at 60 V L/R = 1 ms DC-4 2 20 A at 60 V L/R = 1 ms DC-3 3 20 A at 60 V L/R = 1 ms DC-3 2 20 A at 60 V L/R = 1 ms DC-2 3 20 A at 60 V L/R = 1 ms DC-2 2 20 A at 60 V L/R = 1 ms DC-1 3 20 A at 60 V L/R = 1 ms DC-1 2 20 A at 60 V L/R = 1 ms DC-1 1 20 A at 48 V L/R = 1 ms DC-5 3 20 A at 48 V L/R = 1 ms DC-5 2 20 A at 48 V L/R = 1 ms DC-5 1 20 A at 48 V L/R = 1 ms DC-4 3 20 A at 48 V L/R = 1 ms DC-4 2 20 A at 48 V L/R = 1 ms DC-4 1 20 A at 48 V L/R = 1 ms DC-3 3 20 A at 48 V L/R = 1 ms DC-3 2 20 A at 48 V L/R = 1 ms DC-3 1 20 A at 48 V L/R = 1 ms DC-2 3 20 A at 48 V L/R = 1 ms DC-2 2 20 A at 48 V L/R = 1 ms DC-2 1 20 A at 48 V L/R = 1 ms DC-1 3 20 A at 48 V L/R = 1 ms DC-1 2 20 A at 48 V L/R = 1 ms DC-1 1 20 A at 24 V L/R = 1 ms DC-5 3 20 A at 24 V L/R = 1 ms DC-5 2 20 A at 24 V L/R = 1 ms DC-5 1 20 A at 24 V L/R = 1 ms DC-4 3 20 A at 24 V L/R = 1 ms DC-4 2 20 A at 24 V L/R = 1 ms DC-4 1 20 A at 24 V L/R = 1 ms DC-3 3 20 A at 24 V L/R = 1 ms DC-3 2 20 A at 24 V L/R = 1 ms DC-3 1 20 A at 24 V L/R = 1 ms DC-2 3 20 A at 24 V L/R = 1 ms DC-2 2 20 A at 24 V L/R = 1 ms DC-2 1 20 A at 24 V L/R = 1 ms DC-1 3 20 A at 24 V L/R = 1 ms DC-1 2 20 A at 24 V L/R = 1 ms DC-1 1 20 A at 230...690 V AC-22A 20 A at 230...690 V AC-21A 20 A at 110 V L/R = 1 ms DC-5 3 20 A at 110 V L/R = 1 ms DC-4 3 20 A at 110 V L/R = 1 ms DC-3 3 20 A at 110 V L/R = 1 ms DC-2 3 20 A at 110 V L/R = 1 ms DC-1 3 2 A at 220 V L/R = 1 ms DC-5 3 2 A at 220 V L/R = 1 ms DC-4 3 2 A at 220 V L/R = 1 ms DC-3 3 2 A at 220 V L/R = 1 ms DC-2 3 2 A at 220 V L/R = 1 ms DC-1 1 2 A at 110 V L/R = 1 ms DC-5 1 2 A at 110 V L/R = 1 ms DC-4 1 2 A at 110 V L/R = 1 ms DC-3 1

Rated operational power in W	7.5 W at 500 V AC-23A 5.5 W at 690 V AC-3 5.5 W at 500 V AC-3 5.5 W at 415 V AC-23A 5.5 W at 400 V AC-23A 4 W at 400...415 V AC-3 4 W at 240 V AC-23A 4 W at 230 V AC-23A 3 W at 230...240 V AC-3 11 W at 690 V AC-23A
Intermittent duty class	30
Making capacity	200 A at 400 V (AC-23A 200 A at 400 V (AC-22A 200 A at 400 V (AC-21A
[Icm] rated short-circuit making capacity	0.5 kA at 400 V at Ipeak
[Icw] rated short-time withstand current	140 kA at 400 V during 1 s
Rated conditional short-circuit current	6 kA at 400 V - associated fuse 20 A gG 6 kA at 400 V - associated fuse 20 A aM
Breaking capacity	200 kA at 400 V AC-23A 200 kA at 400 V AC-22A 200 kA at 400 V AC-21A
Mechanical durability	50000 cycles
Electrical durability	50000 cycles on AC-21 30000 cycles on DC-1...5
Connections - terminals	Power circuit: screw terminals cable 4 mm² - cable stiffness: solid - Power circuit: screw terminals cable 4 mm² - cable stiffness: flexible - with cable end
Tightening torque	Power circuit: 0.7 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	0.177 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

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0733 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

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