



### Main

Commercial Status	Commercialised
Range of product	TeSys VARIO
Device short name	V
Product or component type	Switch body
Poles description	3P
Network type	AC DC
[Ith] conventional free air thermal current	80 A
Suitability for isolation	Yes

### Complementary

Network frequency	50/60 Hz
Mounting support	Enclosure door Plate
[Ue] rated operational voltage	690 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ithe] conventional enclosed thermal current	63 A

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61.2 A at 230 V AC-23A  
58.5 A at 240 V AC-23A  
1.5 A at 250 V L/R = 1 ms DC-5 1  
1.5 A at 250 V L/R = 1 ms DC-4 1  
1.5 A at 250 V L/R = 1 ms DC-3 1  
1.5 A at 250 V L/R = 1 ms DC-2 1  
80 A at 60 V L/R = 1 ms DC-5 3  
80 A at 60 V L/R = 1 ms DC-5 2  
80 A at 60 V L/R = 1 ms DC-4 3  
80 A at 60 V L/R = 1 ms DC-4 2  
80 A at 60 V L/R = 1 ms DC-3 3  
80 A at 60 V L/R = 1 ms DC-3 2  
80 A at 60 V L/R = 1 ms DC-2 3  
80 A at 60 V L/R = 1 ms DC-2 2  
80 A at 60 V L/R = 1 ms DC-1 3  
80 A at 60 V L/R = 1 ms DC-1 2  
80 A at 48 V L/R = 1 ms DC-5 3  
80 A at 48 V L/R = 1 ms DC-5 2  
80 A at 48 V L/R = 1 ms DC-5 1  
80 A at 48 V L/R = 1 ms DC-4 3  
80 A at 48 V L/R = 1 ms DC-4 2  
80 A at 48 V L/R = 1 ms DC-4 1  
80 A at 48 V L/R = 1 ms DC-3 3  
80 A at 48 V L/R = 1 ms DC-3 2  
80 A at 48 V L/R = 1 ms DC-3 1  
80 A at 48 V L/R = 1 ms DC-2 3  
80 A at 48 V L/R = 1 ms DC-2 2  
80 A at 48 V L/R = 1 ms DC-2 1  
80 A at 48 V L/R = 1 ms DC-1 3  
80 A at 48 V L/R = 1 ms DC-1 2  
80 A at 48 V L/R = 1 ms DC-1 1  
80 A at 24 V L/R = 1 ms DC-5 3  
80 A at 24 V L/R = 1 ms DC-5 2  
80 A at 24 V L/R = 1 ms DC-5 1  
80 A at 24 V L/R = 1 ms DC-4 3  
80 A at 24 V L/R = 1 ms DC-4 2  
80 A at 24 V L/R = 1 ms DC-4 1  
80 A at 24 V L/R = 1 ms DC-3 3  
80 A at 24 V L/R = 1 ms DC-3 2  
80 A at 24 V L/R = 1 ms DC-3 1  
80 A at 24 V L/R = 1 ms DC-2 3  
80 A at 24 V L/R = 1 ms DC-2 2  
80 A at 24 V L/R = 1 ms DC-2 1  
80 A at 24 V L/R = 1 ms DC-1 3  
80 A at 24 V L/R = 1 ms DC-1 2  
80 A at 24 V L/R = 1 ms DC-1 1  
80 A at 230...690 V AC-22A  
80 A at 230...690 V AC-21A  
80 A at 110 V L/R = 1 ms DC-1 3  
80 A at 110 V L/R = 1 ms DC-1 2  
8 A at 220 V L/R = 1 ms DC-1 1  
8 A at 110 V L/R = 1 ms DC-5 1  
8 A at 110 V L/R = 1 ms DC-4 1  
8 A at 110 V L/R = 1 ms DC-3 1  
8 A at 110 V L/R = 1 ms DC-2 1  
63 A at 110 V L/R = 1 ms DC-5 3  
63 A at 110 V L/R = 1 ms DC-4 3  
63 A at 110 V L/R = 1 ms DC-3 3  
63 A at 110 V L/R = 1 ms DC-2 3  
6 A at 250 V L/R = 1 ms DC-5 2  
6 A at 250 V L/R = 1 ms DC-4 2  
6 A at 250 V L/R = 1 ms DC-3 2  
6 A at 250 V L/R = 1 ms DC-2 2  
6 A at 220 V L/R = 1 ms DC-5 2  
6 A at 220 V L/R = 1 ms DC-4 2  
6 A at 220 V L/R = 1 ms DC-3 2  
6 A at 220 V L/R = 1 ms DC-2 2  
57 A at 400 V AC-23A  
55 A at 415 V AC-23A  
54 A at 500 V AC-23A  
50 A at 60 V L/R = 1 ms DC-5 1  
50 A at 60 V L/R = 1 ms DC-4 1  
50 A at 60 V L/R = 1 ms DC-3 1  
50 A at 60 V L/R = 1 ms DC-2 1  
50 A at 60 V L/R = 1 ms DC-1 1  
5 A at 250 V L/R = 1 ms DC-1 1  
40 A at 250 V L/R = 1 ms DC-1 3  
40 A at 220 V L/R = 1 ms DC-1 3  
33 A at 690 V AC-23A  
30 A at 220 V L/R = 1 ms DC-1 2  
25 A at 250 V L/R = 1 ms DC-1 2  
25 A at 110 V L/R = 1 ms DC-1 1  
20 A at 110 V L/R = 1 ms DC-5 2  
20 A at 110 V L/R = 1 ms DC-4 2  
20 A at 110 V L/R = 1 ms DC-3 2

Rated operational power in W	18.5 kW at 690 V AC-3 18.5 kW at 240 V AC-23A 18.5 kW at 230 V AC-23A 37 kW at 500 V AC-23A 30 kW at 690 V AC-23A 30 kW at 500 V AC-3 30 kW at 415 V AC-23A 30 kW at 400 V AC-23A 22 kW at 400...415 V AC-3 15 kW at 230...240 V AC-3
Intermittent duty class	30
Breaking capacity	640 A at 400 V AC-23A 640 A at 400 V AC-22A 640 A at 400 V AC-21A
Making capacity	800 A at 400 V (AC-23A) 800 A at 400 V (AC-22A) 800 A at 400 V (AC-21A)
[Icm] rated short-circuit making capacity	2.1 kA at 400 V at I <sub>peak</sub>
[Icw] rated short-time withstand current	960 A at 400 V during 1 s
Rated conditional short-circuit current	10 kA at 400 V - associated fuse 80 A gG 10 kA at 400 V - associated fuse 80 A aM
Mechanical durability	30000 cycles
Electrical durability	30000 cycles on DC-1...5 30000 cycles on AC-21
Connections - terminals	Power circuit: screw terminals cable 25 mm <sup>2</sup> - cable stiffness: solid Power circuit: screw terminals cable 16 mm <sup>2</sup> - cable stiffness: flexible - with cable end
Tightening torque	Power circuit: 4 N.m - on screw terminals
Provision for padlocking	Yes
Height	83 mm
Width	60 mm
Depth	65 mm
Product weight	0.5 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
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)	0730

## Contractual warranty

Period	18 months
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