



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	125 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	100 A

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71.9 A at 230 V AC-23A
68.5 A at 400 V AC-23A
64.5 A at 500 V AC-23A
2.2 A at 220 V L/R = 1 ms DC-5 1
2.2 A at 220 V L/R = 1 ms DC-4 1
2.2 A at 220 V L/R = 1 ms DC-3 1
2.2 A at 220 V L/R = 1 ms DC-2 1
1.6 A at 250 V L/R = 1 ms DC-5 1
1.6 A at 250 V L/R = 1 ms DC-4 1
1.6 A at 250 V L/R = 1 ms DC-3 1
1.6 A at 250 V L/R = 1 ms DC-2 1
80 A at 220 V L/R = 1 ms DC-1 3
70 A at 110 V L/R = 1 ms DC-5 3
70 A at 110 V L/R = 1 ms DC-4 3
70 A at 110 V L/R = 1 ms DC-3 3
70 A at 110 V L/R = 1 ms DC-2 3
7 A at 250 V L/R = 1 ms DC-5 2
7 A at 250 V L/R = 1 ms DC-4 2
7 A at 250 V L/R = 1 ms DC-3 2
7 A at 250 V L/R = 1 ms DC-2 2
7 A at 220 V L/R = 1 ms DC-5 2
7 A at 220 V L/R = 1 ms DC-4 2
7 A at 220 V L/R = 1 ms DC-3 2
7 A at 220 V L/R = 1 ms DC-2 2
68 A at 240 V AC-23A
66 A at 415 V AC-23A
60 A at 60 V L/R = 1 ms DC-5 1
60 A at 60 V L/R = 1 ms DC-4 1
60 A at 60 V L/R = 1 ms DC-3 1
60 A at 60 V L/R = 1 ms DC-2 1
60 A at 60 V L/R = 1 ms DC-1 1
50 A at 250 V L/R = 1 ms DC-1 3
42 A at 690 V AC-23A
40 A at 220 V L/R = 1 ms DC-1 2
30 A at 250 V L/R = 1 ms DC-1 2
30 A at 110 V L/R = 1 ms DC-1 1
3 A at 250 V L/R = 1 ms DC-1 1
22 A at 110 V L/R = 1 ms DC-5 2
22 A at 110 V L/R = 1 ms DC-4 2
22 A at 110 V L/R = 1 ms DC-3 2
22 A at 110 V L/R = 1 ms DC-2 2
16 A at 220 V L/R = 1 ms DC-5 3
16 A at 220 V L/R = 1 ms DC-4 3
16 A at 220 V L/R = 1 ms DC-3 3
16 A at 220 V L/R = 1 ms DC-2 3
125 A at 60 V L/R = 1 ms DC-5 3
125 A at 60 V L/R = 1 ms DC-5 2
125 A at 60 V L/R = 1 ms DC-4 3
125 A at 60 V L/R = 1 ms DC-4 2
125 A at 60 V L/R = 1 ms DC-3 3
125 A at 60 V L/R = 1 ms DC-3 2
125 A at 60 V L/R = 1 ms DC-2 3
125 A at 60 V L/R = 1 ms DC-2 2
125 A at 60 V L/R = 1 ms DC-1 3
125 A at 60 V L/R = 1 ms DC-1 2
125 A at 48 V L/R = 1 ms DC-5 3
125 A at 48 V L/R = 1 ms DC-5 2
125 A at 48 V L/R = 1 ms DC-5 1
125 A at 48 V L/R = 1 ms DC-4 3
125 A at 48 V L/R = 1 ms DC-4 2
125 A at 48 V L/R = 1 ms DC-4 1
125 A at 48 V L/R = 1 ms DC-3 3
125 A at 48 V L/R = 1 ms DC-3 2
125 A at 48 V L/R = 1 ms DC-3 1
125 A at 48 V L/R = 1 ms DC-2 3
125 A at 48 V L/R = 1 ms DC-2 2
125 A at 48 V L/R = 1 ms DC-2 1
125 A at 48 V L/R = 1 ms DC-1 3
125 A at 48 V L/R = 1 ms DC-1 2
125 A at 48 V L/R = 1 ms DC-1 1
125 A at 24 V L/R = 1 ms DC-5 3
125 A at 24 V L/R = 1 ms DC-5 2
125 A at 24 V L/R = 1 ms DC-5 1
125 A at 24 V L/R = 1 ms DC-4 3
125 A at 24 V L/R = 1 ms DC-4 2
125 A at 24 V L/R = 1 ms DC-4 1
125 A at 24 V L/R = 1 ms DC-3 3
125 A at 24 V L/R = 1 ms DC-3 2
125 A at 24 V L/R = 1 ms DC-3 1
125 A at 24 V L/R = 1 ms DC-2 3
125 A at 24 V L/R = 1 ms DC-2 2
125 A at 24 V L/R = 1 ms DC-2 1
125 A at 24 V L/R = 1 ms DC-1 3
125 A at 24 V L/R = 1 ms DC-1 2
125 A at 24 V L/R = 1 ms DC-1 1

Rated operational power in W	45 kW at 500 V AC-23A 37 kW at 690 V AC-23A 37 kW at 500 V AC-3 37 kW at 415 V AC-23A 37 kW at 400 V AC-23A 30 kW at 690 V AC-3 30 kW at 400...415 V AC-3 22 kW at 240 V AC-23A 22 kW at 230...240 V AC-3 22 kW at 230 V AC-23A
Intermittent duty class	30
Breaking capacity	1000 A at 400 V AC-23A 1000 A at 400 V AC-22A 1000 A at 400 V AC-21A
Making capacity	1250 A at 400 V (AC-23A) 1250 A at 400 V (AC-22A) 1250 A at 400 V (AC-21A)
[Icm] rated short-circuit making capacity	2.8 kA at 400 V at I _{peak}
[Icw] rated short-time withstand current	1500 A at 400 V during 1 s
Rated conditional short-circuit current	10 kA at 400 V - associated fuse 125 A gG 10 kA at 400 V - associated fuse 125 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 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	Yes
Height	125 mm
Width	90 mm
Depth	90 mm
Product weight	0.9 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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