



Main

Commercial Status	Commercialised
Range of product	TeSys VARIO
Device short name	Main pole module
Product or component type	Add-on modules
Poles description	1P
Network type	AC DC
[Ith] conventional free air thermal current	12 A
Suitability for isolation	Yes

Complementary

Network frequency	50/60 Hz
Mounting location	Left
[Ue] rated operational voltage	690 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ithe] conventional enclosed thermal current	10 A

[I_e] 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
[Icw] rated short-time withstand current	300 A 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 A at 400 V AC-23A 120 A at 400 V AC-22A 120 A 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	Screw terminals cable 6 mm ² - cable stiffness: flexible - with cable end Screw terminals cable 10 mm ² - cable stiffness: solid -
Tightening torque	2.1 N.m - on screw terminals
Height	74 mm
Width	16 mm
Depth	35 mm
Product weight	0.05 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

Contractual warranty

Period	18 months
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