



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	80 A
Suitability for isolation	Yes

Complementary

Network frequency	50/60 Hz
Mounting location	Left Right
[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
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
[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
Breaking capacity	640 A at 400 V AC-23A 640 A at 400 V AC-22A 640 A at 400 V AC-21A
Mechanical durability	30000 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 30000 cycles on AC-21
Connections - terminals	Screw terminals cable 25 mm ² - cable stiffness: solid - Screw terminals cable 16 mm ² - cable stiffness: flexible - with cable end
Tightening torque	4 N.m - on screw terminals
Height	83 mm
Width	20 mm
Depth	46 mm
Product weight	0.1 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