



Data Sheet

5SU32030FN

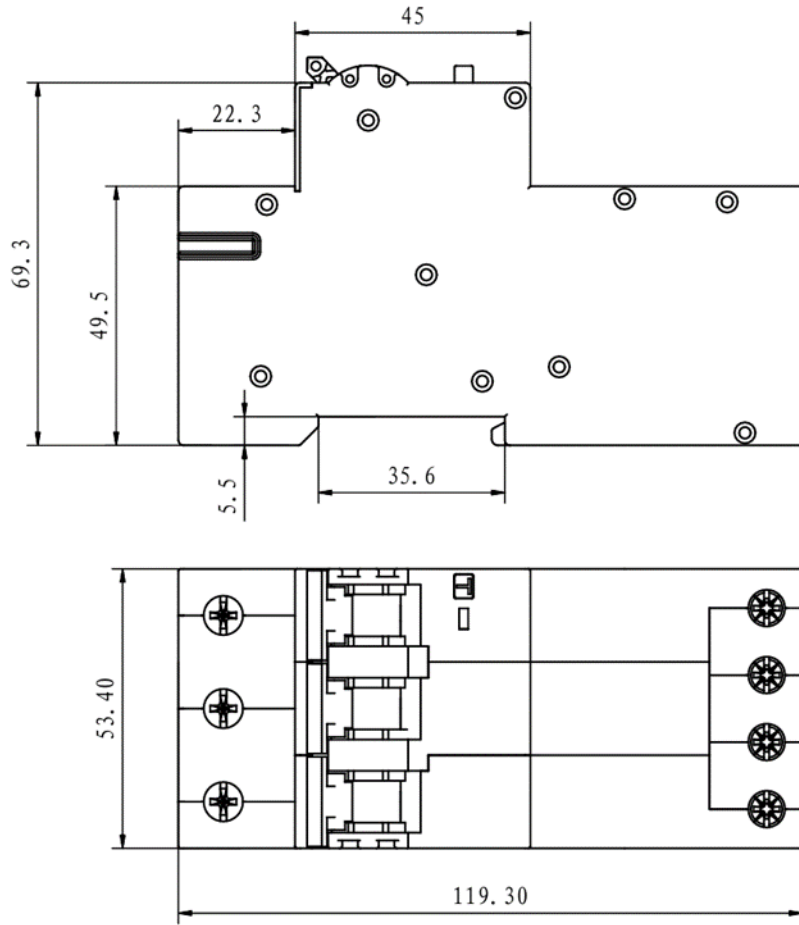


RCBO, 10 kA, 3P+N, Type A, 30 mA, C-Characteristic, In: 20 A, Un AC: 400/415V, pigtail 900 mm, solid N

Model	
Product brand name	APS Power
Product type	RCBO: Residual Current Breaker with Overload, type 5SU3
Part Number	5SU32030FN
General technical data	
Circuit breaker application	Distribution
Number of poles	3P + N
Trip unit technology for overcurrent protection	Thermal Magnetic
Tripping characteristic class	C
Neutral connection lead	900 mm long, blue lead with pin terminal
Provision for padlocking	Padlocking device, using padlocks with max. 6mm hasp, or lead seal or similar
Suitability for Isolation	Yes, conforming to IEC 61009.1
RCD protection	Integrated
RCD trip characteristic class	Type A
RCD sensitivity setting (mA)	30 mA
Earth leakage protection time delay	Instantaneous
Degree of pollution	3
Mechanical durability	20000 cycles
Electrical durability	10000 cycles
Control type	Toggle
Local signalling	ON OFF indication flag – red/green
Local testing	Test button "T" on device DIN fascia
Mounting method	DIN rail 35 mm (2 rear clips on device)
3 Pole (in-side) centres for chassis mounting	18 mm
Busbar connection chassis system installation	Yes, ENCY, ENCHY or ISCY busbar chassis for tee offs with 18 mm pole centres
3P+N (out-side) pole centres	13 mm
Buscomb compatibility	Yes
Colour of housing	Light grey
Voltage	
Operating voltage type	AC
Insulation voltage (Ui) rated value	500 V
Surge voltage resistance rated value	4000 V
lcw rated short time withstand current	lcw: 250 A during 8/20 µs impulse withstand
Supply voltage	
Supply voltage	
<ul style="list-style-type: none"> at rated value Minimum Maximum for testing equipment minimum 	400/415 VAC 204 V AC 457 V AC 320 V AC
Operating frequency	50/60 Hz
Supply voltage frequency rated value	50 Hz

Protection class	
Housing of RCBO, Ingress Protection	IP4X
Terminals protection, Ingress Protection	IP2X
Switching and ratings	
Rated short-circuit breaking capacity according to AS/NZS 61009	10 kA
Rated residual switching capacity (I _{Δm}) to IEC 61009-1	6 kA
Ics rated service breaking capacity	7.5 kA
Neutral pole operation	Solid, unswitched neutral pole, FN = Fixed Neutral
Neutral pole protection	No
Neutral position	Left
Dissipation	
Power loss (W)	
<ul style="list-style-type: none"> At rated AC current, hot operating state per pole 	2.60 W
<ul style="list-style-type: none"> maximum for 3P + N 	11.0 W
Operational current	
<ul style="list-style-type: none"> at 30 °C rated value 	20 A
<ul style="list-style-type: none"> at 40 °C rated value 	19.5 A
<ul style="list-style-type: none"> at 45 °C rated value 	19.2 A
<ul style="list-style-type: none"> at 50 °C rated value 	18.9 A
<ul style="list-style-type: none"> at 55 °C rated value 	18.7 A
<ul style="list-style-type: none"> at 60 °C rated value 	18.4 A
<ul style="list-style-type: none"> at 65 °C rated value 	18.1 A
Product function	
Product function	Voltage dependent RCD function
Connections	
Connectable conductor cross-section solid	
<ul style="list-style-type: none"> Minimum 	0.75 mm ²
<ul style="list-style-type: none"> Maximum 	6 mm ²
Connectable conductor cross-section flexible	
<ul style="list-style-type: none"> Minimum 	0.75 mm ²
<ul style="list-style-type: none"> Maximum 	25 mm ²
Connectable conductor cross-section finely stranded	
<ul style="list-style-type: none"> Minimum 	0.75 mm ²
<ul style="list-style-type: none"> Maximum 	16 mm ²
Tightening torque of screw-type clamp terminals	
<ul style="list-style-type: none"> Minimum 	1.2 Nm
<ul style="list-style-type: none"> Maximum 	2 – 2.5 Nm
Conductor material	Copper conductors only
Terminal types	Pillar terminals
Type of electric connection	Fork and pin
Mechanical design	
Height	120 mm
Width	53.4 mm
Depth	79 mm
Installation depth	69.3 mm
Number of modular width units	3
Mounting position	Any
Net weight	460 g
Weight with packaging	490 g
Environmental conditions	
Influence of the surrounding temperature	Maximum 95% relative humidity up to 55 °C
Ambient temperature during operation	
<ul style="list-style-type: none"> Minimum 	- 15 °C
<ul style="list-style-type: none"> Maximum 	+ 65 °C
Ambient temperature during storage	
<ul style="list-style-type: none"> Minimum 	- 25 °C
<ul style="list-style-type: none"> Maximum 	+ 70 °C
Tropicalisation	2
Testing and standards	
Standards and compliance	AS/NZS 61009.1, IEC 61009-1, IEC 61009-2-2 IEC 61543 (EMC) RoHS compliant

Dimensions (mm)



Schematic diagram

