

S800U series

High performance circuit breakers—UL 489 series



Description

The S800U high performance MCB offers a compact solution to circuit protection. The S800U devices are DIN rail mounted. The S800U is available with application-specific trip characteristics to provide maximum circuit protection.

The breakers offer thermal-magnetic trip protection according to Z and K characteristics.

For the worldwide market, the breakers carry CSA, IEC, CE and many other agency approvals.

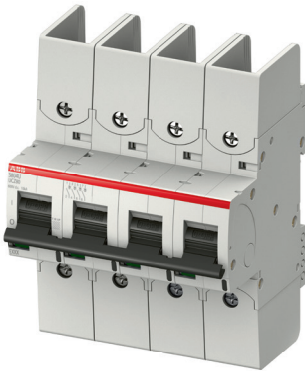
Features

- Energy limiting
- Fast breaking time (2.3-2.5 ms)
- Wide range of accessories
- DIN rail mounting
- Finger safe terminals
- Multi-function terminals
- Ring tongue compatible
- UL 489 File #E312425

	S800U	S800U-UCZ	S800U-PVS
Amperage	10-100 A	10-80 A	5 A
Voltage	240 VAC	600 VDC	1000 VDC
Poles	1, 2, 3, 4	4 in series	4 in series
Trip curves	Z, K	Z	PVS
Short circuit interrupt rating	30/50 kA (single-/multi-pole)	10 kA	3 kA
Auxiliary contacts	Yes	—	—
Bell alarm	Yes	—	—
Shunt trip	Yes	—	—
Undervoltage release	Yes	—	—
Terminals	Compression/ring tongue	Compression	Compression

S804U-PVS5

The S804U-PVS5 is for GFDI applications (Ground-Fault Detector Interrupter) in photovoltaic systems. In case of a ground fault, the breaker will trip and the PV generator will not be damaged. The breaker is tested acc. to UL 489B for 1000 VDC.



Technical specifications

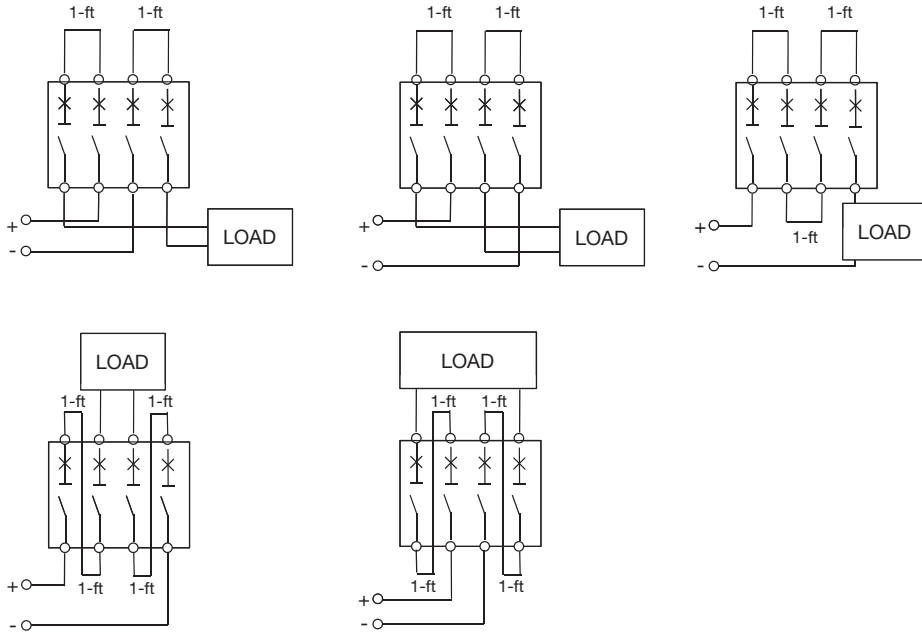
Standard		UL 489B
Characteristic		PV-S
Rated current I_n	[A]	5
Rated voltage U_n	[V]	1000 DC
No. of poles		4
Short-circuit current rating acc. to UL 489B	[kA]	3
Connections 5 A		
Single conductor per terminal—copper only, 75C wire		14 AWG–2 AWG Cu, Solid or stranded
Tightening torque	[Nm]	3.5 (31 in.lb)
Protection category		IP40 (actuating end only)
Mounting position		Any
Contacts		Cadmium-free
Reference temperature for tripping characteristic	50 °C	
Ambient temperature	[°C]	–25...+60
Storage temperature	[°C]	–40...+70
Approval		cULus File #E351317

Ordering information

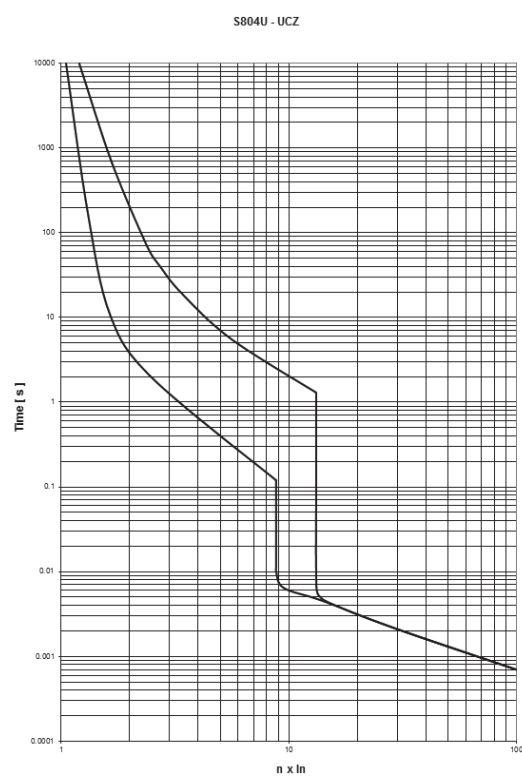
Rated current (A)	Catalog number
5	S804U-PVS5

S804U-PVS5

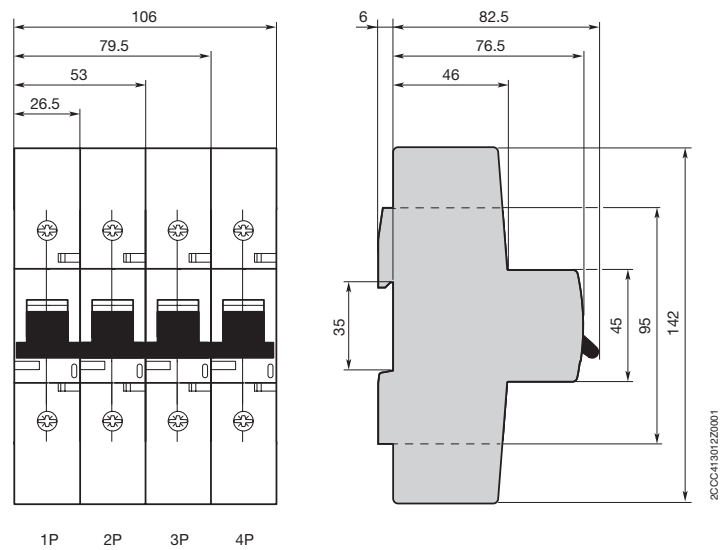
Tested and listed wirings



Trip curve for S804U-PVS5



Dimension S804U-PVS5



Tripping behavior acc. to UL 489

Thermal release: $1.13 - 1.30 \times I_n$

Magnetic release: $6 \times I_n$