Selection guide for VAMP Arc Protection Relays

Type of fault	ANSI	IEC Symbol	Protection function/measurement	VAMP 121	VAMP 125	VAMP 321
Protection						
Arc protection	50ARC/ 50NARC	3 I> / Io>, L>	Electrical arc protection stage; point sensors optional, (in VAMP 321 also fiber)			■
	50ARC/ 50NARC	3 I> / Io>, L>	Electrical arc protection with point sensor; I/O units	■	■	■
	50ARC/ 50NARC	3 I> / Io>, L>	Electrical arc protection with fiber or current sensor I/O units			■
Other functions	86	Latched trip	Latched trip	■	■	■
	50BF	CBFP	Circuit breaker failure protection			■
	99		8 Programmable stages			■
		DR	Disturbance recorder			■
Measurement						
Primary current		3I	Three-phase current			■
		$3I_0$	Zero sequence current			■
Primary voltage		U_0	Zero sequence voltage			■
Control						
Digital inputs			Number of digital inputs, max			6
			Number of binary inputs (arc protection)	1	4	3
Outputs relays			Number of trip relays, max			4
			Number of alarm relays			1
			Number of arc protection trip relays, < 9 ms	1	1	4
			Number of semicontactor outputs, < 2 ms		1	2
			Number of binary outputs	1	2	3
Object status indication			Single line diagram, 8 objects			8
Local and remote control			Number of controllable objects			6
Interlocking and logic			Configurable			■
Communication						
IEC 60870-5-101 TCP						■
IEC 60870-5-101						■
IEC 60870-5-103						■
Modbus TCP						■
Modbus RTU						■
Profibus DP						■
DNP 3.0						■
DNP TCP						■
Ethernet IP						■
SPA-bus communication						■
IEC 61850						■
DeviceNet						■
TCP / IP						■
Human-Machine-Communication, display						■
Human-Machine-Communication, PC						■
General functions						
Selfsupervision				■	■	■
Annunciating, event generating and value recording						■
Measurement and parameter display						■
Real time clock			Year, month, day, hour, minutes, seconds, milliseconds			■