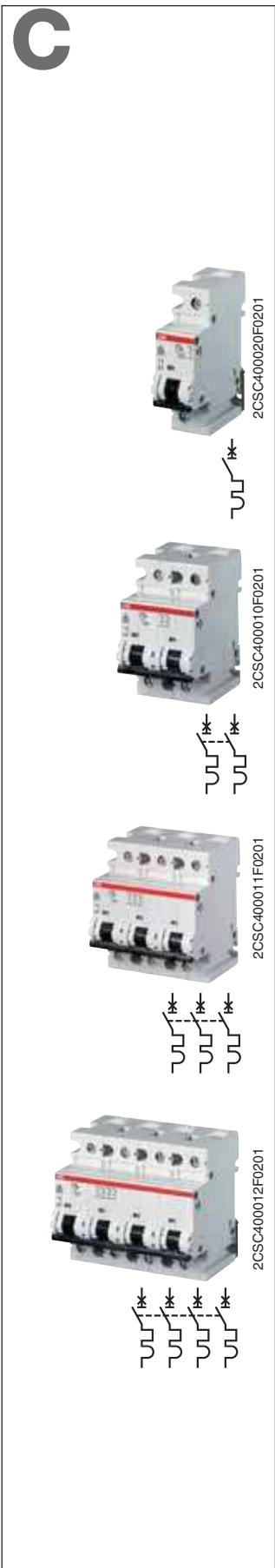




TECHNICAL FEATURES				S 290
Standards				IEC / EN 60898, IEC / EN 60947-2, UL 1077 ①
Rated current $I_n$		A		$80 \leq I_n \leq 125$
Poles				1P, 2P, 3P, 4P
Rated voltage $U_e$	IEC AC 1P	V		230-240
	IEC AC 2P, 3P, 4P	V		230/400-240/415
	UL AC 1P	V		277
	UL AC 2P, 3P, 4P	V		480 Y/277
Insulation voltage $U_i$		V		500
Max. operating voltage $U_b$ max.	IEC AC	V		250/440
	UL AC 1P	V		480 Y/277
	IEC/UL DC 1P	V		60
	IEC/UL DC 2P, 3P, 4P	V		125
Min. operating voltage $U_b$ min.		V		24VAC - 24VDC
Rated frequency		Hz		50...60
Rated breaking capacity acc. to IEC/EN 60898		ultimate $I_{cn}$	A	10000
Rated breaking capacity acc. to IEC/EN 60947-2 1P @ 230 VAC 2P, 3P, 4P@ 400 VAC	ultimate $I_{cu}$	kA		20 (15 for D characteristic)
	service $I_{cs}$	kA		10 (8 for D characteristic)
Rated interrupting capacity acc. to UL1077, CSA22.2 No.235 1P@277 VAC 2P,3P,4P@480 VAC		IR	kA (RMS)	5
Rated impulse withstand voltage (1.2/50) $U_{imp}$		kV		5
Dielectric test voltage at ind. freq. for 1 min.		kV		2.5
Overvoltage category				III
Thermomagnetic release characteristic	C: $5 I_n \leq I_m \leq 10 I_n$			■
	D: $10 I_n \leq I_m \leq 20 I_n$			■
	K: $10 I_n \leq I_m \leq 14 I_n$			■
Toggle				black sealable in ON-OFF position
Electrical life				10000
Mechanical life				20000
Protection degree	housing			IP4X
	terminals			IP2X
Mechanical shock resistance				5 g, 2 impact shock, half wave form, duration 11 ms
Resistance to vibrations acc. to IEC/EN 60068-2-6				5 g - 20 cycles at frequency 5...150...5 Hz with load 0.8 $I_n$
Tropicalization acc. to IEC/EN 60068-2	humid heat	°C/RH		28 cycles with 55/95...100
	constant climatic conditions	°C/RH		23/83 - 40/93 - 55/20
	variable climatic conditions	°C/RH		25/95 - 40/95
Reference temperature for setting of thermal element		°C		30 (20 for characteristics K)
Ambient temperature (with daily average $\leq +35$ °C)		IEC/UL	°C	-25...+45
Storage temperature			°C	-40...+70
Terminal type				cage (shock protected)
Terminal size top/bottom for cable	IEC	mm <sup>2</sup>		50/50
	UL	AWG		14-1
Tightening torque	IEC	N*m		3.0...3.5
	UL	in-lbs.		35
Tool				No. 2 Posidriv
Mounting				on DIN rail EN 60715 (35 mm) by means of fast clip device
Connection				from top and bottom
Pole dimensions (H x D x W)		mm		90 x 70 x 26.25
Pole weight		g		258
Combinable with:	signal contact/auxiliary switch			yes
	shunt trip			yes
	undervoltage release			yes
	mechanical interlock			no
	motor operating device			no

① supplementary protection

10000



S 290 C characteristic

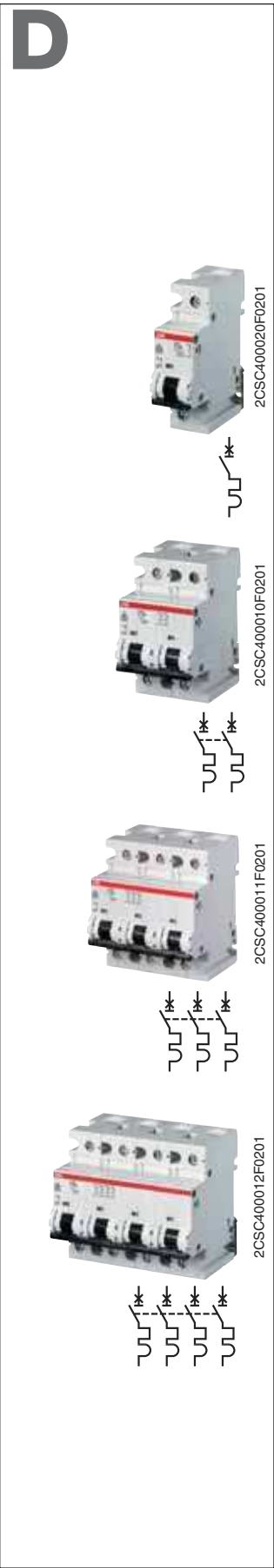
Function: protection and control of the circuits against overloads and short-circuits when high nominal currents are required; protection for resistive and inductive loads with low inrush current.

Applications: commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2

Icn=10 kA

Number of poles	Rated current	Order details	Bbn 4016799	Price 1 piece	Price group	Weight 1 piece	Pack unit
In A	Type code	Order code	EAN			kg	pc.
1	80	S291 C 80	GHS2912001R0804	570541		0.267	1/6
	100	S291 C100	GHS2912001R0824	570572		0.267	1/6
	125	S291 C125	GHS2912001R0844	570602		0.267	1/6
2	80	S292 C 80	GHS2922001R0804	570626		0.534	1/3
	100	S292 C100	GHS2922001R0824	570657		0.534	1/3
	125	S292 C125	GHS2922001R0844	570688		0.534	1/3
3	80	S293 C 80	GHS2932001R0804	570701		0.801	1/2
	100	S293 C100	GHS2932001R0824	570732		0.801	1/2
	125	S293 C125	GHS2932001R0844	570763		0.801	1/2
4	80	S294 C 80	GHS2942001R0804	570787		1.068	1
	100	S294 C100	GHS2942001R0824	570732		1.068	1
	125	S294 C125	GHS2942001R0844	570848		1.068	1



S 290 D characteristic

Function: protection and control of the circuits against overloads and short-circuits when high nominal current are required; protection for circuits which supply loads with high inrush current at the circuit closing (motors, LV / LV transformers, breakdown lamps).

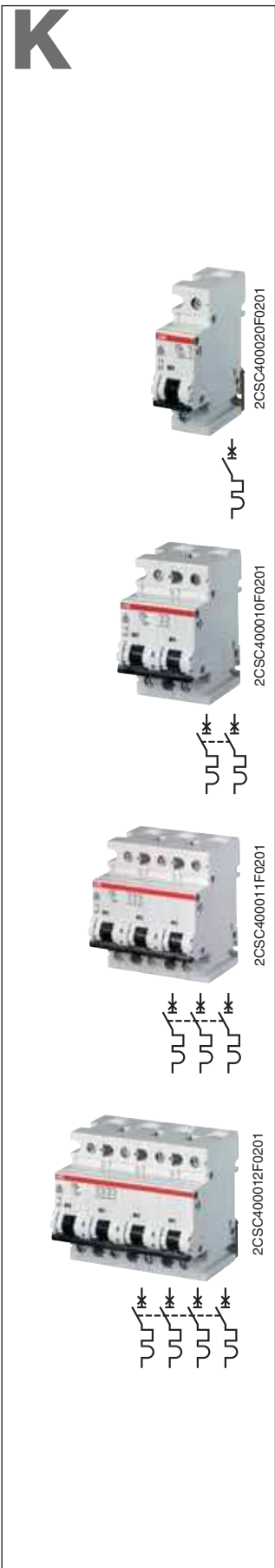
Applications: commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2

Icn=10 kA

Number of poles	Rated current	Order details	Bbn 4016799	Price 1 piece	Price group	Weight 1 piece	Pack unit
	In A	Type code	Order code	EAN		kg	pc.
1	80	S291 D 80	GHS2912001R0801	120807		0.267	1/6
	100	S291 D100	GHS2912001R0821	120906		0.267	1/6
2	80	S292 D 80	GHS2922001R0801	121002		0.534	1/3
	100	S292 D100	GHS2922001R0821	121507		0.534	1/3
3	80	S293 D 80	GHS2932001R0801	121705		0.801	1/2
	100	S293 D100	GHS2932001R0821	121804		0.801	1/2
4	80	S294 D 80	GHS2942001R0801	121200		1.068	1
	100	S294 D100	GHS2942001R0821	121309		1.068	1

10000



S 290 K (power) characteristic

Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits when high nominal current are required.

Advantages: no nuisance tripping in the case of functional peak currents up to 8xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2, VDE 0660 Part 101

Icn=10 kA

Number of poles	Rated current	Order details	Bbn 4016799	Price 1 piece	Price group	Weight 1 piece	Pack unit
	In A	Type code	Order code	EAN		kg	pc.
1	80	S291 K 80	GHS2912001R0807	570558		0.267	1/6
	100	S291 K100	GHS2912001R0827	570589		0.267	1/6
2	80	S292 K 80	GHS2922001R0807	570633		0.534	1/3
	100	S292 K100	GHS2922001R0827	570664		0.534	1/3
3	80	S293 K 80	GHS2932001R0807	570718		0.801	1/2
	100	S293 K100	GHS2932001R0827	570749		0.801	1/2
4	80	S294 K 80	GHS2942001R0807	570794		1.068	1
	100	S294 K100	GHS2942001R0827	570824		1.068	1