

BETA Protecting Miniature Circuit Breakers



High-capacity range

Technical specifications

			5SY6	5SY4	5SY5	5SY7	5SY8	5SP4	5SP5
Standards			EN 60898	EN 60898; EN 60947-2			--	EN 60898; EN 60947-2	
Approved acc. to			EN 60898; UL 1077; CSA C22.2 No.235; UL File No. E 116386		--	EN 60898; UL 1077; CSA C22.2 No.235; UL File No. E 116386		--	
Operational voltage	min.	V AC/DC	24	24	24	24	24	24	24
Acc. to EN 60898 and EN 60947-2	max.	V DC/pole	60 ¹⁾	60 ¹⁾	220	60 ¹⁾	60	60 ¹⁾	220
	max.	V AC	440	440	440	440	440	440	440
Acc. to UL 1077 and CSA C22.2 No.235	max.	V AC	480	480	--	480	480	480	--
		V DC/pole	60	60	--	60	60	60	--
Rated switching capacity									
I_{cn} acc. to IEC/EN 60898-1 I_{cn} acc. to IEC/EN 60898-2 I_{cu} acc. to IEC/EN 60947-2 - Acc. to UL1077 and CSA C22.2 No.235		kA AC	6	10	10	15	15	10	3
		kA DC	--	--	10	--	--	--	10
		kA AC	--	--	--	--	25	--	--
		kA AC	5	5	--	5	5	5	--
Insulation coordination									
- Rated insulation voltage - Degree of pollution for overvoltage category	V AC		250/440						
			3/III						
Touch protection to EN 50274-1			Yes						
Handle end position , sealable			Yes						
Degree of protection acc. to EN 60529			IP20, with connected conductors						
CFC and silicone-free			Yes						
Mounting									
- Snap-on fixing system - Standard mounting rail and screw connection			Yes						--
			--						Yes
Terminals									
- Tunnel terminals at both ends - Combined terminals at both ends - Terminal connection solid, stranded or finely stranded, with end sleeve - Terminal tightening torque	mm ²		--						Yes
			Yes						--
			0.75 ... 25						
			Nm	2.5 ... 3					
Conductor cross-sections									
- Solid and stranded, top and bottom terminal - Finely stranded, with end sleeve, top and bottom terminal	mm ²		0.75 ... 35						0.75 ... 50
			0.75 ... 25						0.75 ... 35
Mains connection			Any						
Mounting position			Any						
Service life on average, with rated load			20000 actuations for 5SY5 at 40 A, 50 A and 63 A 10000 actuations						
Ambient temperature			°C						
Resistance to climate Acc. to IEC 60068-2-30			-25 ... +45, occasionally +55, max. 95 % humidity, storage temperature: -40 ... +75						
Resistance to vibrations Acc. to IEC 60068-2-6			m/s ²						
			60 at 10 Hz ... 150 Hz						

1) The operational voltage 60 V DC/pole takes into account a battery charging voltage with peak value of 72 V.