

■ Datasheet: Miniature Circuit Breakers series AMPARO, 6kA



■ SCHRACK-INFO

- Lift and clamp terminals on both sides
- Terminal guide for secure connection
- Terminal cross-section: 1-25mm²
- Snap-on mounting for DIN rail EN 50 022

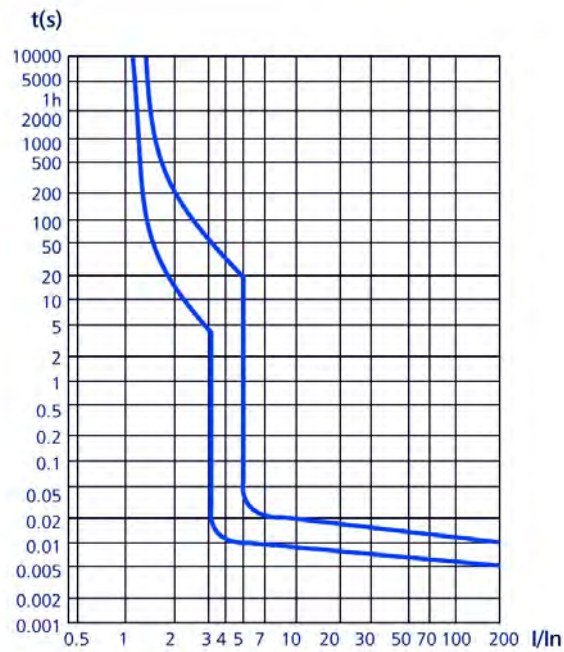
■ Technical data

Standards:	IEC/EN 60898-1
Rated voltage (AC):	230/400 - 240/415V -
Rated frequency (AC):	50/60Hz
Rated current I _n	2, 4, 6, 10, 16, 20, 25, 32, 40A, 50A, 63A
Tripping characteristics:	B, C
Rated breaking capacity:	6 kA acc. to IEC/EN 60898,
Energy limiting class	3
Rated impulse withstand voltage (1,2/50) U _{imp}	4kV
Dielectric test voltage at ind. Freq. For 1 min.	2kV
Pollution degree	2

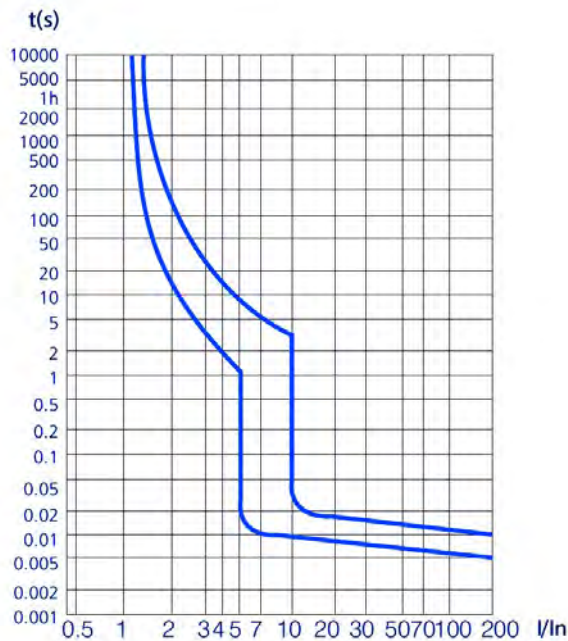
Total powerloss at I _n						
		1P	1+N	2P	3P	3+N
	2A	1,9 W	-	-	-	-
	4A	1,6 W	-	-	-	-
	6A	1,9 W	3,8 W	3,8 W	5,7 W	7,6 W
	10A	1,2 W	2,4 W	2,4 W	3,6 W	4,8 W
	13A	1,9 W	3,8 W	3,8 W	5,7 W	7,6 W
	16A	1,9 W	3,8 W	3,8 W	5,7 W	7,6 W
	20A	1,9 W	3,8 W	3,8 W	5,7 W	7,6 W
	25A	1,9 W	3,8 W	3,8 W	5,7 W	7,6 W
	32A	2,7 W	5,4 W	5,4 W	8,1 W	10,8 W
	40A	3,3 W	6,6 W	6,6 W	9,9 W	13,2 W
	50A	4,2 W	8,4 W	8,4 W	12,6 W	16,8 W
	63A	5 W	10 W	10 W	15 W	20 W
Internal resistance	2A			459.8mΩ		
	4A			94.007mΩ		
	6A			51.787mΩ		
	10A			9.989mΩ		
	16A			6.31mΩ		
	20A			3.832mΩ		
	25A			2.671mΩ		
	32A			2.009mΩ		
	40A			1.66mΩ		
	50A			1.226mΩ		
	63A			1.055mΩ		
				VDE for 1- pole, 2-pole and 3-pole version		
Certificate						
Electrical endurance:				> 4.000 operating cycles		
Mechanical endurance:				> 20.000 operating cycles		
Protection degree				IP 20		
Reference temperature:				30°C		
Tripping temperature:				-5 °C to +40 °C		
Operating temperature:				-35 °C to +70 °C		
Terminal connection type				Cable/U-type busbar / Pin-type busbar		
Connection				From top and bottom		
Terminal cross-section:				1 - 25mm ²		
Terminal tightening torque:				2.5 Nm		
Terminal size for busbar				10mm ²		
Mounting:				on DIN rail EN 60715 (35mm) by means of fast clip device		

Tripping curves

IEC/EN 60898-1, AC, Characteristic B



IEC/EN 60898-1, AC, Characteristic B



▀ Influence of ambient temperature on tripping current

	- 35°C	- 30°C	- 20°C	- 10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
2A	2,60	2,52	2,46	2,38	2,28	2,20	2,08	2,00	1,92	1,86	1,76	1,66
4A	5,20	5,04	4,92	4,76	4,56	4,40	4,16	4,00	3,84	3,76	3,52	3,32
6A	7,80	7,56	7,38	7,14	6,84	6,60	6,24	6,00	5,76	5,64	5,28	4,98
10A	13,20	12,70	12,50	12,00	11,50	11,10	10,60	10,00	9,60	9,30	8,90	8,40
16A	21,12	20,48	20,00	19,20	18,40	17,76	16,96	16,00	15,36	14,88	14,24	13,44
20A	26,40	25,60	25,00	24,00	23,00	22,20	21,20	20,00	19,20	18,60	17,80	16,80
25A	33,00	32,00	31,25	30,00	28,75	27,75	26,50	25,00	24,00	23,25	22,25	21,00
32A	42,56	41,28	40,00	38,72	37,12	35,52	33,92	32,00	30,72	29,76	28,16	26,88
40A	53,20	51,20	50,00	48,00	46,40	44,80	42,40	40,00	38,40	37,20	35,60	33,60
50A	67,00	65,50	63,00	60,50	58,00	56,00	53,00	50,00	48,00	46,50	44,00	41,50
63A	83,79	81,90	80,01	76,86	73,71	70,56	66,78	63,00	60,48	58,90	55,44	52,29

▀ Let-through energy

