

Podatkovni list izdelka: AM019110UL

Miniature Circuit Breaker AMPARO 5kA, D 10A, 1-pole, UL1077

Product category AM10, Neutral on right side, Product standard EN 60898-1, IEC 60898-1, UL1077



Schrack Info

- Contact position indicator
- Lift und Clamp terminals on both sides
- Back terminal design for safe connection
- Neutral on right side
- Terminal cross-section: 1-25mm²
- Snap-on mounting for DIN rail according to EN 60715
- Compliant to the product standard UL1077

Tehnični podatki

standard	IEC 60898-1 UL1077 EN 60898-1
nazivna napetost	230/400 - 240/415V
nazivna frekvenca (Hz)	50/60
karakteristika	D

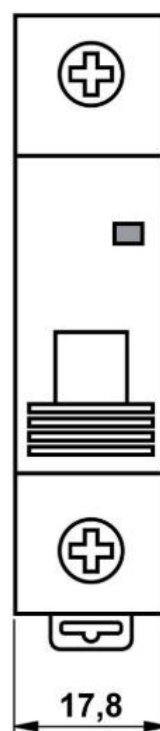
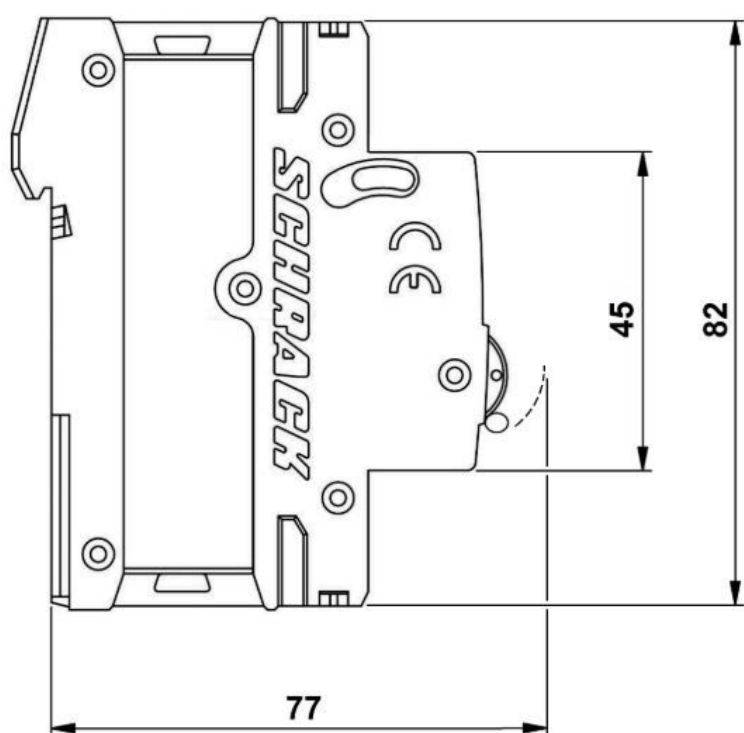
Tehnični podatki - Nadaljevanje

nazivni tok (A)	10
poli	1
kratkostična vzdržljivost	10 kA (IEC/EN 60898) , 5 kA (UL 1077)
impulzna zdržna napetost [Uimp]	6kV
razred selektivnosti	3
testna napetost (V)	2000
stopnja onesnaženosti	2
toplotne izgube (W)	2,00
notranji upor	10A: 9.989mΩ
življenjska doba, električna	4000 stikalnih ciklov
življenjska doba, mehanska	20000 stikalnih operacij
stopnja mehanske zaščite	IP20
preseki sponke (mm²)	1 - 25
velikost sponke za viličasto zbiralko	10 mm² / 16 mm²
vodnik	baker
tip sponke	Double function clamp / pin and fork busbar
temperatura kalibracije (°C)	30
temperaturno območje - delovanje (°C)	-25 do +70
Ambient Temperature - nominal Tripping (°C)	-5 to +40
montaža	na DIN-letev v skladu z EN 60715 (35mm) s hitro pritrditvijo
dodatni pribor	AM900099--;BSB90113-A;BSB90114-A;AM900008--;AM900006--;AM900005--
položaj montaže	poljubno
certifikati	UL 1077, št. E195102
jakost toka (A)	10
tip	AM10
stikalna zmogljivost (kA)	10
standard za izdelek	IEC 60898-1 EN 60898-1:2019

Circuit diagram



Dimensions



[mm]

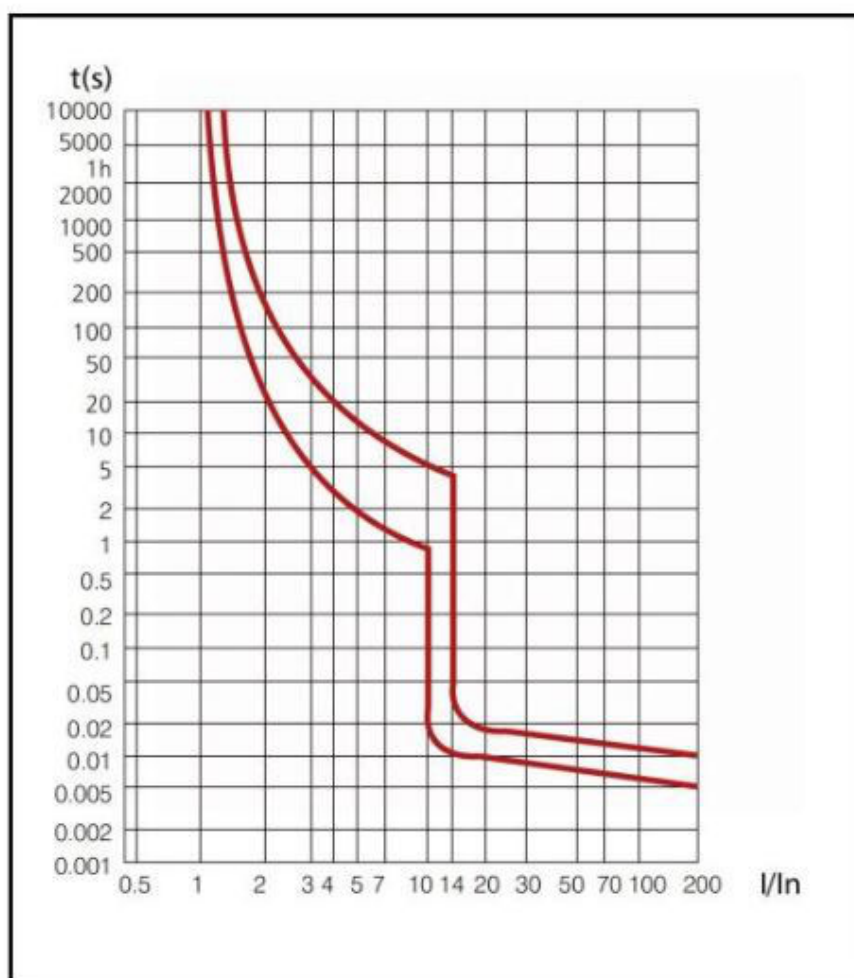
Let-through energy characteristic

I^2t Durchlassenergie/ let-through energy



Tripping characteristic according to IEC 60898

Kennlinie D



Short-circuit selectivity to D/D0 and cylindrical fuse links with characteristic curve gG/gL

I_n	16A	20A	25A	35A	50A	63A	80A	100A
≤2A	0.5 kA	0.6 kA	1.0 kA	2.8 kA	5.8 kA	10.0 kA	10.0 kA	10.0 kA
3A	0.5 kA	0.6 kA	0.9 kA	2.3 kA	4.3 kA	10.0 kA	10.0 kA	10.0 kA
4A	0.5 kA	0.6 kA	0.9 kA	2.0 kA	3.8 kA	9.5 kA	10.0 kA	10.0 kA
6A	-	0.5 kA	0.7 kA	1.5 kA	2.6 kA	5.3 kA	9.1 kA	10.0 kA
10A	-	-	0.7 kA	1.2 kA	1.9 kA	3.4 kA	5.0 kA	9.5 kA
13A	-	-	-	1.2 kA	1.8 kA	3.2 kA	4.6 kA	8.6 kA
16A	-	-	-	-	1.6 kA	3.2 kA	4.4 kA	8.0 kA
20A	-	-	-	-	1.5 kA	2.5 kA	3.5 kA	6.7 kA
25A	-	-	-	-	-	2.4 kA	3.4 kA	6.2 kA
32A	-	-	-	-	-	-	2.8 kA	5.0 kA
40A	-	-	-	-	-	-	-	4.8 kA
50A	-	-	-	-	-	-	-	-
63A	-	-	-	-	-	-	-	-

Short-circuit selectivity to NH fuses with characteristic curve gG/gL

I_n	16A	20A	25A	35A	40A	50A	63A	80A	100A	125A	160A
≤2A	0.5 kA	0.5 kA	0.8 kA	2.1 kA	3.1 kA	6.0 kA	8.6 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA
3A	0.5 kA	0.5 kA	0.7 kA	1.7 kA	2.4 kA	4.3 kA	6.0 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA
4A	0.5 kA	0.5 kA	0.7 kA	1.6 kA	2.2 kA	3.8 kA	5.2 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA
6A	-	0.5 kA	0.5 kA	1.2 kA	1.6 kA	2.6 kA	3.3 kA	5.5 kA	10.0 kA	10.0 kA	10.0 kA
10A	-	-	0.5 kA	1.0 kA	1.3 kA	1.9 kA	2.5 kA	3.6 kA	7.2 kA	10.0 kA	10.0 kA
13A	-	-	-	1.0 kA	1.3 kA	1.9 kA	2.3 kA	3.4 kA	6.5 kA	9.5 kA	10.0 kA
16A	-	-	-	-	1.1 kA	1.6 kA	2.0 kA	3.0 kA	5.5 kA	8.0 kA	10.0 kA
20A	-	-	-	-	-	1.4 kA	1.8 kA	2.8 kA	5.0 kA	7.5 kA	10.0 kA
25A	-	-	-	-	-	-	1.8 kA	2.7 kA	4.8 kA	7.0 kA	10.0 kA
32A	-	-	-	-	-	-	-	2.4 kA	4.1 kA	6.2 kA	9.3 kA
40A	-	-	-	-	-	-	-	-	4.0 kA	6.0 kA	9.0 kA
50A	-	-	-	-	-	-	-	-	-	-	-
63A	-	-	-	-	-	-	-	-	-	-	-

Short-circuit selectivity to circuit breaker size 1

I _{cu} = 25kA (50 kA)	40A	50A	63A	80A	100A	125A
1A	15 kA	15kA	15kA	15kA	15kA	15kA
2A	2 kA	15 kA	15 kA	15 kA	15 kA	15 kA
3A	1.2 kA	2 kA	3 kA	3 kA	10 kA	15 kA
4A	1.2 kA	2 kA	3 kA	3 kA	8 kA	15 kA
6A	1.2 kA	2 kA	2.5 kA	3 kA	5 kA	10 kA
10A	1.2 kA	1.5 kA	2 kA	2 kA	4 kA	10 kA
13A	1 kA	1.5 kA	2 kA	2 kA	4 kA	10 kA
16A	1 kA	1.2 kA	1.5 kA	2 kA	3 kA	8 kA
20A	0.8 kA	1.2 kA	1.5 kA	1.5 kA	3 kA	8 kA
25A	0.7 kA	1.2 kA	1.5 kA	1.5 kA	3 kA	7 kA
32A	-	1.2 kA	1 kA	1.5 kA	2 kA	6 kA
40A	-	-	1 kA	1.5 kA	2 kA	5 kA
50A	-	-	-	1.2 kA	1.5 kA	4 kA
63A	-	-	-	-	1.5 kA	3 kA

Short-circuit selectivity to circuit breaker size 2

I _{cu} =25kA (50kA), (100kA), (150kA)	40A	50A	63A	80A	100A	125A	160A	200A	250A
1A	15 kA	15 kA	15 kA	15 kA	15 kA	15 kA	15 kA	15 kA	15 kA
2A	3 kA	15 kA	15 kA	15 kA	15 kA	15 kA	15 kA	15 kA	15 kA
3A	1.5 kA	1.5 kA	3 kA	5 kA	15 kA	15 kA	15 kA	15 kA	15 kA
4A	1.2 kA	1.5 kA	3 kA	4 kA	15 kA	15 kA	15 kA	15 kA	15 kA
6A	1.2 kA	1.5 kA	2.5 kA	3 kA	15 kA	15 kA	15 kA	15 kA	15 kA
10A	1 kA	1.5 kA	2.5 kA	3 kA	10 kA	10 kA	10 kA	10 kA	10 kA
13A	1 kA	1.2 kA	2 kA	3 kA	10 kA	10 kA	10 kA	10 kA	10 kA
16A	1 kA	1.2 kA	1.5 kA	2.5 kA	10 kA	10 kA	10 kA	10 kA	10 kA
20A	1 kA	1.2 kA	1.5 kA	1.5 kA	10 kA	10 kA	10 kA	10 kA	10 kA
25A	0.8 kA	1kA	1.5 kA	2 kA	10 kA	10 kA	10 kA	10 kA	10 kA
32A	-	1 kA	1.5 kA	2 kA	8 kA	8 kA	8 kA	8 kA	10 kA
40A	-	-	1.2 kA	1.5 kA	7 kA	7 kA	7 kA	7 kA	10 kA
50A	-	-	-	1.5 kA	6 kA	6 kA	6 kA	6 kA	10 kA
63A	-	-	-	-	6 kA	6 kA	6kA	6 kA	10 kA

Influence of the ambient temperature on the thermal tripping behavior

I _n (A)	Ambient temperature T (°C)											
	-35	-30	-20	-10	0	10	20	30	40	50	60	70
1	1.30	1.26	1.23	1.19	1.15	1.11	1.05	1.00	0.96	0.93	0.88	0.83
2	2.60	2.52	2.46	2.38	2.28	2.20	2.08	2.00	1.92	1.86	1.76	1.66
3	3.90	3.78	3.69	3.57	3.42	3.30	3.12	3.00	2.88	2.79	2.64	2.49
4	5.20	5.04	4.92	4.76	4.56	4.40	4.16	4.00	3.84	3.76	3.52	3.32
6	7.80	7.56	7.38	7.14	6.84	6.60	6.24	6.00	5.76	5.64	5.28	4.98
10	13.20	12.70	12.50	12.00	11.50	11.10	10.60	10.00	9.60	9.30	8.90	8.40
16	21.12	20.48	20.00	19.20	18.40	17.76	16.96	16.00	15.36	14.88	14.24	13.44
20	26.40	25.60	25.00	24.00	23.00	22.20	21.20	20.00	19.20	18.60	17.80	16.80
25	33.00	32.00	31.25	30.00	28.75	27.75	26.50	25.00	24.00	23.25	22.25	21.00
32	42.56	41.28	40.00	38.72	37.12	35.52	33.92	32.00	30.72	29.76	28.16	26.88
40	53.20	51.20	50.00	48.00	46.40	44.80	42.40	40.00	38.40	37.20	35.60	33.60
50	67.00	65.5	63.00	60.50	58.00	56.00	53.00	50.00	48.00	46.50	44.00	41.50
63	83.79	81.90	80.01	76.86	73.71	70.56	66.78	63.00	60.48	58.90	55.44	52.29

Number of possible wires

Cross-section [mm ²]	Number of rigid single wire conductors					
	1	2	3	4	5	6
1	+	+	+	+	+	+
1.5	+	+	+	+	+	+
2.5	+	+	+	-	-	-
4	+	+	+	-	-	-
6	+	+	+	-	-	-

Cross-section [mm ²]	Number of rigid multi wire conductors					
	1	2	3	4	5	6
10	+	+	-	-	-	-
16	+	-	-	-	-	-
25	+	-	-	-	-	-

Cross-section [mm ²]	Number of flexible single wire conductors (without ferrule)					
	1	2	3	4	5	6
1	+	+	+	+	+	+
1.5	+	+	+	+	+	+
2.5	+	+	+	+	-	-
4	+	+	+	-	-	-
6	+	+	-	-	-	-
10	+	+	-	-	-	-
16	+	-	-	-	-	-
25	+	-	-	-	-	-

Cross-section [mm ²]	Number of flexible single wire conductors (with ferrule)					
	1	2	3	4	5	6
1	+	-	-	-	-	-
1.5	+	-	-	-	-	-
2.5	+	-	-	-	-	-
4	+	-	-	-	-	-
6	+	-	-	-	-	-
10	+	-	-	-	-	-
16	+	-	-	-	-	-
25	-	-	-	-	-	-

Tabela izdelkov

Opis	Teža bakra (kg/km)	Šifra
Miniature Circuit Breaker AMPARO 5kA, D 10A, 1-pole, UL1077 Product category AM10, Neutral on right side, Product standard EN 60898-1, IEC 60898-1, UL1077		AM019110UL
dodatni pribor		
Pomožni kontakt, 1 menjalni kontakt, serija AMPARO zaskočna pritrditev, tip AM6, standard za izdelek EN 60947-5-1:2017		AM900099
Zbiralka, viličasta, 17,8mm, 3-pol. 10mm ² , 1m, nezlomljiva krajšanje z obeh strani, TE=17,8mm, za BM	480	BSB90113-A
Zbiralka, viličasta, 17,8mm, 3-pol. 16mm ² , 1m, nezlomljiva krajšanje z obeh strani, TE=17,8mm, za BM	670	BSB90114-A
Sprožnik, podnapetostni, 230V AC, serija AMPARO zaskočna pritrditev, tip AM6, standard za izdelek EN 60947-5-1:2004 + A1:2009		AM900008
Sprožnik, napetostni, 230V/400V AC, serija AMPARO zaskočna pritrditev, tip AM6, standard za izdelek EN 60947-5-1:2004 + A1:2009		AM900006
Sprožnik, napetostni, 24V AC/DC, serija AMPARO zaskočna pritrditev, tip AM6, standard za izdelek EN 60947-5-1:2004 + A1:2009		AM900005