

Tehničke karakteristike artikla: AM017820UL

Miniature Circuit Breaker AMPARO 5kA, C 20A, 3+N, 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

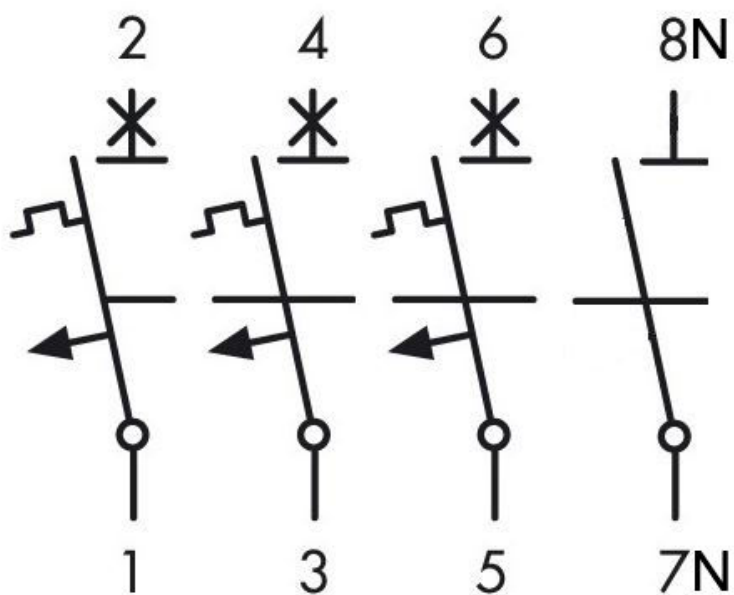
Tehnički podaci

Standard	IEC 60898-1 UL1077 EN 60898-1
Nazivna frekvencija (Hz)	50/60
Karakteristika okidanja	C
Nazivna struja (A)	20

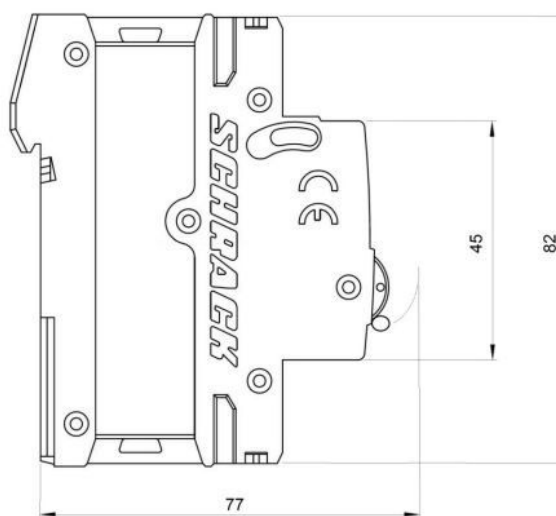
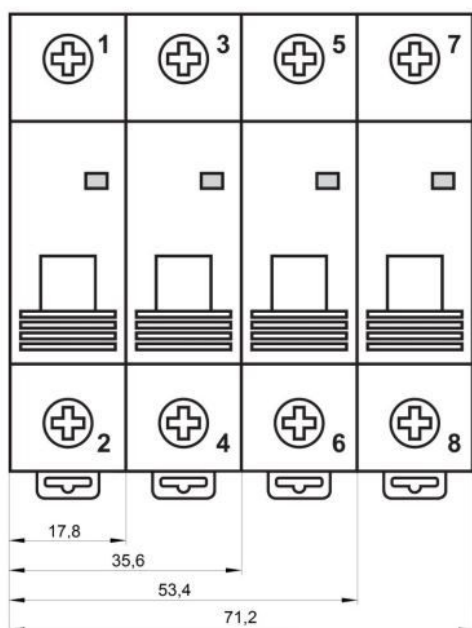
Tehnički podaci - nastavak

Polovi	3+N
Nazivna prekidna moć	10 kA (IEC/EN 60898) , 5 kA (UL 1077)
Impulsni otporni napon	6kV
Klasa selektivnosti	3
Test napona (V)	2000
Stepen zagađenja	2
Gubitak snage (W)	7,60
Unutrašnji otpor	20A: 3.832mΩ
Životni vek, električni	4000 Operations
Životni vek, mehanički	20000 radnih ciklusa
IP stepen zaštite	IP20
Presek stezaljke (mm ²)	1 - 25
Veličina stezaljke za viljuškastu sabirnicu	10 mm ² /16 mm ²
Materijal provodnika	Copper
Tip stezaljke	Double function clamp / pin and fork busbar
Kalibracija-temperatura (°C)	30
Temperaturni okvir - Operativni (°C)	-25 to +70
Ambient Temperature - nominal Tripping (°C)	-5 to +40
Način montaže	On DIN rail according to EN 60715 (35mm) via quick mounting clip
Dodatni pribor	AM900099--;BSB90113-A;BSB90114-A;AM900008--;AM900006--;AM900005--
Položaj ugradnje	bilo koji
Sertifikati	UL 1077, File No. E195102

Circuit diagram



Dimensions



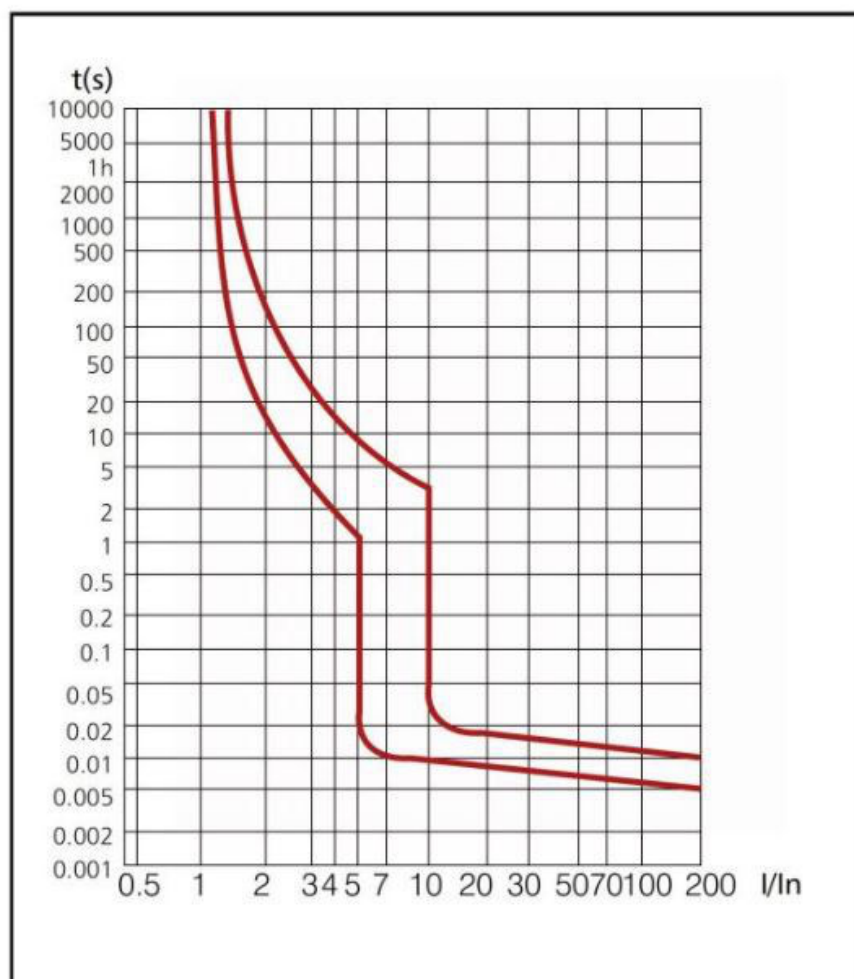
Let-through energy characteristic

I^2t Durchlassenergie/ let-through energy



Tripping characteristic according to IEC 60898

Kennlinie C



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

In	16A	20A	25A	35A	50A	63A	80A	100A
≤2A	0.5 kA	0.8 kA	1.6 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA
3A	0.5 kA	0.8 kA	0.9 kA	2.2 kA	4.5 kA	10.0 kA	10.0 kA	10.0 kA
4A	0.5 kA	0.6 kA	0.8 kA	1.8 kA	3.6 kA	9.7 kA	10.0 kA	10.0 kA
6A	0.5 kA	0.5 kA	0.6 kA	1.4 kA	2.4 kA	5.5 kA	10.0 kA	10.0 kA
10A	-	0.5 kA	0.6 kA	1.3 kA	2.0 kA	3.6 kA	5.4 kA	10.0 kA
13A	-	-	-	1.3 kA	1.9 kA	3.3 kA	5.0 kA	9.4 kA
16A	-	-	-	1.2 kA	1.8 kA	3.2 kA	4.4 kA	8.0 kA
20A	-	-	-	1.2 kA	1.8 kA	3.1 kA	4.1 kA	7.0 kA
25A	-	-	-	-	1.7 kA	2.8 kA	3.8 kA	6.5 kA
32A	-	-	-	-	-	2.7 kA	3.7 kA	6.2 kA
40A	-	-	-	-	-	-	3.5 kA	5.9 kA
50A	-	-	-	-	-	-	-	5.5 kA
63A	-	-	-	-	-	-	-	-

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

In	16A	20A	25A	35A	40A	50A	63A	80A	100A	125A	160A
≤2A	0.5 kA	0.6 kA	1.0 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA
3A	0.5 kA	0.5 kA	0.7 kA	1.8 kA	2.6 kA	4.7 kA	6.6 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA
4A	0.5 kA	0.5 kA	0.7 kA	1.5 kA	2.1 kA	3.6 kA	5.0 kA	10.0 kA	10.0 kA	10.0 kA	10.0 kA
6A	0.5 kA	0.5 kA	0.5 kA	1.2 kA	1.5 kA	2.5 kA	3.3 kA	5.7 kA	10.0 kA	10.0 kA	10.0 kA
10A	-	-	0.5 kA	1.0 kA	1.4 kA	2.0 kA	2.5 kA	3.8 kA	8.0 kA	10.0 kA	10.0 kA
13A	-	-	-	1.0 kA	1.3 kA	1.9 kA	2.4 kA	3.6 kA	7.0 kA	10.0 kA	10.0 kA
16A	-	-	-	1.0 kA	1.3 kA	1.8 kA	2.3 kA	3.3 kA	6.0 kA	8.8 kA	10.0 kA
20A	-	-	-	1.0 kA	1.2 kA	1.7 kA	2.2 kA	3.2 kA	5.5 kA	7.7 kA	10.0 kA
25A	-	-	-	-	-	1.6 kA	2.1 kA	3.0 kA	5.2 kA	7.3 kA	10.0 kA
32A	-	-	-	-	-	-	2.1 kA	2.9 kA	5.0 kA	7.0 kA	10.0 kA
40A	-	-	-	-	-	-	-	2.8 kA	4.8 kA	6.7 kA	10.0 kA
50A	-	-	-	-	-	-	-	-	4.5 kA	6.3 kA	9.5 kA
63A	-	-	-	-	-	-	-	-	-	5.9 kA	8.4 kA

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 artikla

OPIS	MASA BAKRA (kg/km)	Kat. broj
Miniature Circuit Breaker AMPARO 5kA, C 20A, 3+N, UL1077 Product category AM10, Neutral on right side, Product standard EN 60898-1, IEC 60898-1, UL1077		AM017820UL
Dodatni pribor		
Pomoćni kontakt 1CO, serije AMPARO, nadgradni na klik Tip AM6, Standard proizvoda EN 60947-5-1:2017		AM900099
Sabirnica viljuškasta 18mm TE 3pol 10mm fiksne duljine, nije moguće skraćivanje	480	BSB90113-A
Sabirnica viljuškasta 18mm TE 3pol. 16mm fiksne duljine, nije moguće skraćivanje	670	BSB90114-A
Podnaponski okidač 230V AC, serije AMPARO, bočni IEC/EN 60947-5-1		AM900008
Daljinski okidač 230V/400V AC, serije AMPARO, bočni IEC/EN 60947-5-1		AM900006
Daljinski okidač 24V AC/DC, serije AMPARO, bočni IEC/EN 60947-5-1		AM900005