

Данни за артикула: AM019410UL

Miniature Circuit Breaker AMPARO 5kA, D 10A, 4-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

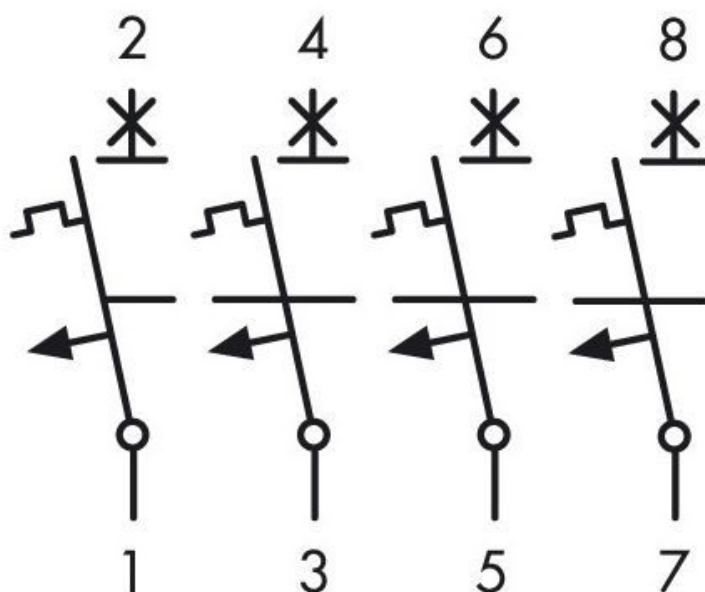
Технически данни

Standard	IEC 60898-1 UL1077 EN 60898-1
Номинално напрежение	230/400 - 240/415V
Rated frequency (Hz)	50/60
Криви на изключване	D

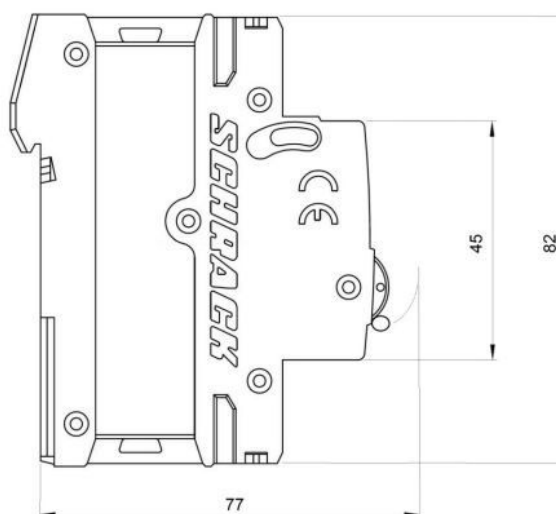
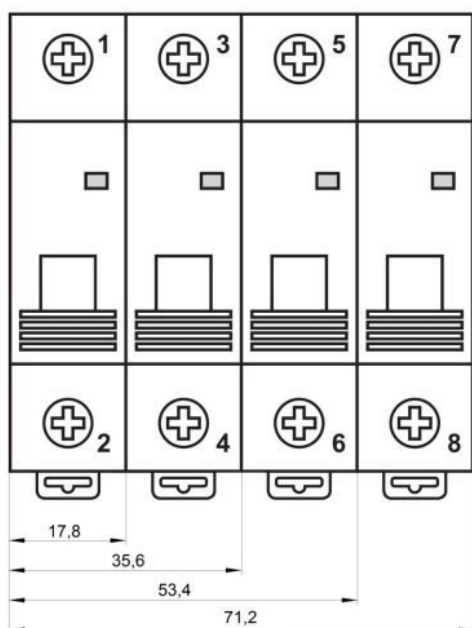
Технически данни - продължение

Номинален ток (A)	10
Полюси	4
Short circuit withstand	10 kA (IEC/EN 60898) , 5 kA (UL 1077)
Rated impulse withstand voltage Uimp	6kV
Energy limiting class	3
Test voltage (V)	2000
Степен на замърсяване	2
Разсейвана мощност (W)	8,00
Internal resistance	10A: 9.989mΩ
Lifetime, electric	4000 Operations
Lifespan, mechanical	20000 Operations
Степен на защита - IP	IP20
Terminal cross section (mm ²)	1 - 25
Clamp size for busbar	10 mm ² / 16 mm ²
Conductor material	Copper
Terminal type	Double function clamp / pin and fork busbar
Calibration-Temperature (°C)	30
Температурен обхват - работен (°C)	-25 to +70
Ambient Temperature - nominal Tripping (°C)	-5 to +40
Монтаж	On DIN rail according to EN 60715 (35mm) via quick mounting clip
Акcesoари	AM900099--;BSB90113-A;BSB90114-A;AM900008--;AM900006--;AM900005--
Mounting position	any
Certificates	UL 1077, File No. E195102
Номинален ток (A)	10

Circuit diagram

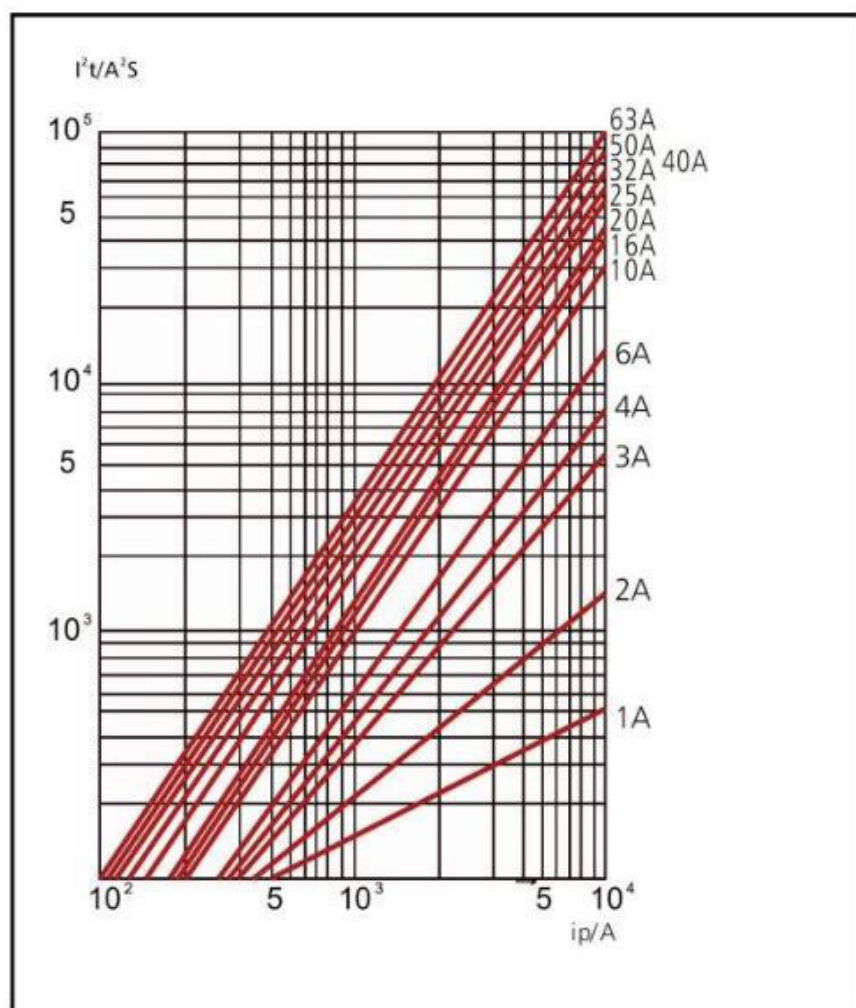


Dimensions



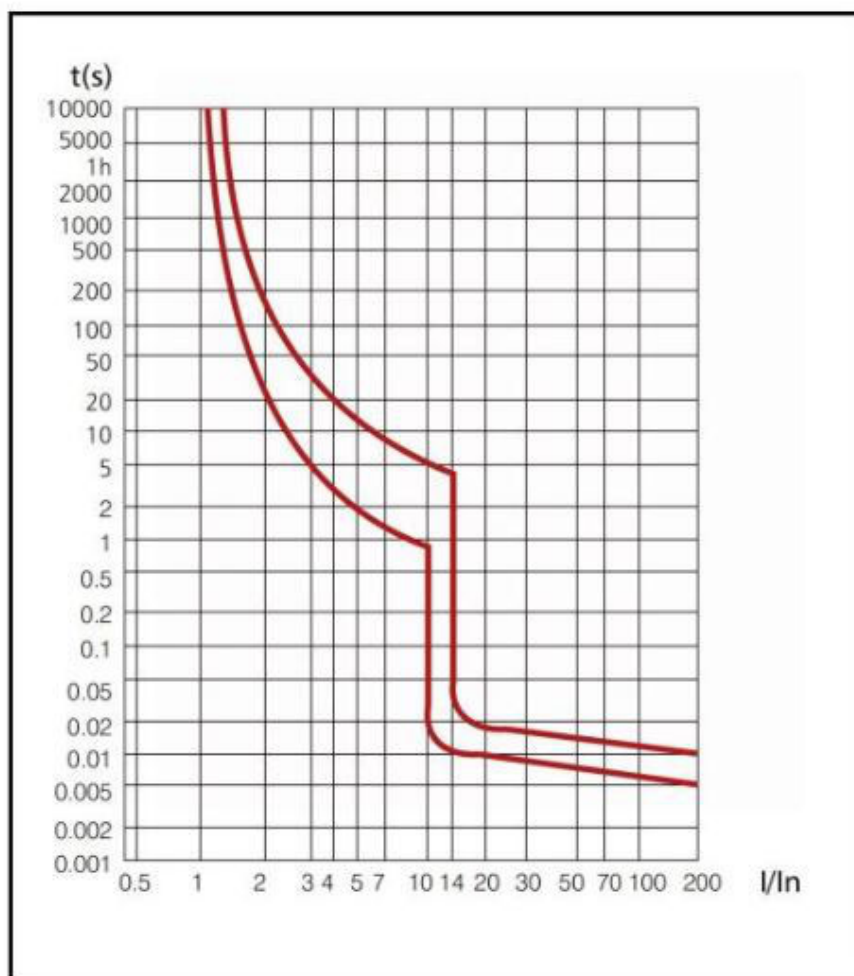
Let-through energy characteristic

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	-	-	-	-	-	-

Таблица с артикули

Описание	Тегло на медта (kg/km)	Артикулен No.
Miniature Circuit Breaker AMPARO 5kA, D 10A, 4-pole, UL1077 Product category AM10, Neutral on right side, Product standard EN 60898-1, IEC 60898-1, UL1077		AM019410UL
Акcesoари		
Допълнителен контакт 1CO, серия AMPARO, за AM / AK Подходящ за AM и AK		AM900099
Разпределителен гребен, виличен, 3P, 1m, 10mm ² Not possible to break off, shortenable on both sides, TE=17.8mm	480	BSB90113-A
Разпределителен гребен, виличен, 3P, 1m, 16mm ² Not possible to break off, shortenable on both sides, TE=17.8mm	670	BSB90114-A
Мин. напреженов изключвател 230V, серия AMPARO, за AM / AK IEC/EN 60947-5-1		AM900008
Шунтов изключвател 240V/400V AC, серия AMPARO, за AM / AK IEC/EN 60947-5-1		AM900006
Шунтов изключвател 24V AC/DC, серия AMPARO, за AM / AK IEC/EN 60947-5-1		AM900005