Combined MCB/RCD (RCBO) 3+N, AMPARO 6kA, C 16A, 30mA, Typ A

Neutralconductor on the right side, Product category A, Type undelayed, Product standard EN 61009-1:2012 + A1:2014 + A2:2014 + A11:2015 + A12:2016,EN 61009-2-1:1994 + A11:1998,IEC 61009-1,IEC 61009-2-1



Schrack Info

- Double lift terminals on the lower side
- Back terminal protection for safe connection
- Terminal cross-section: 1 - 25mm²
- Switch position indicator

Technical Data

Net width (mm)	71,00
Net height (mm)	85,00
Netto depth (mm)	77,00
Net weight (kg)	0,42
Standard	IEC 61009-1 EN 61009-1
Product category	A
Type	undelayed

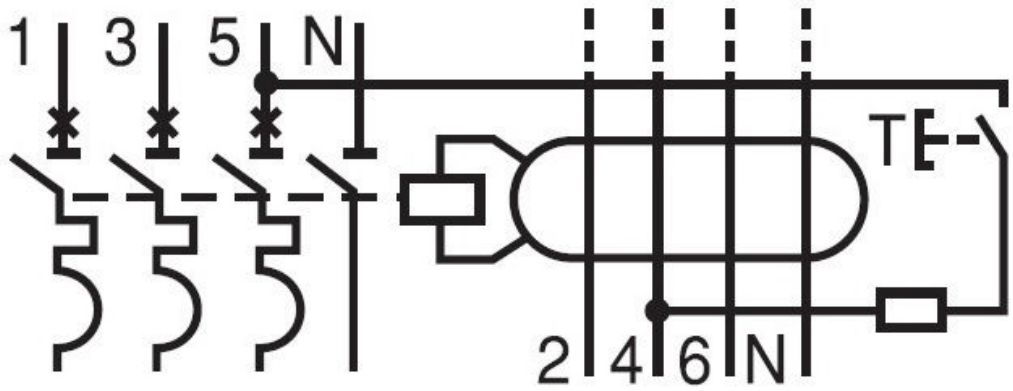
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Technical Data - continued

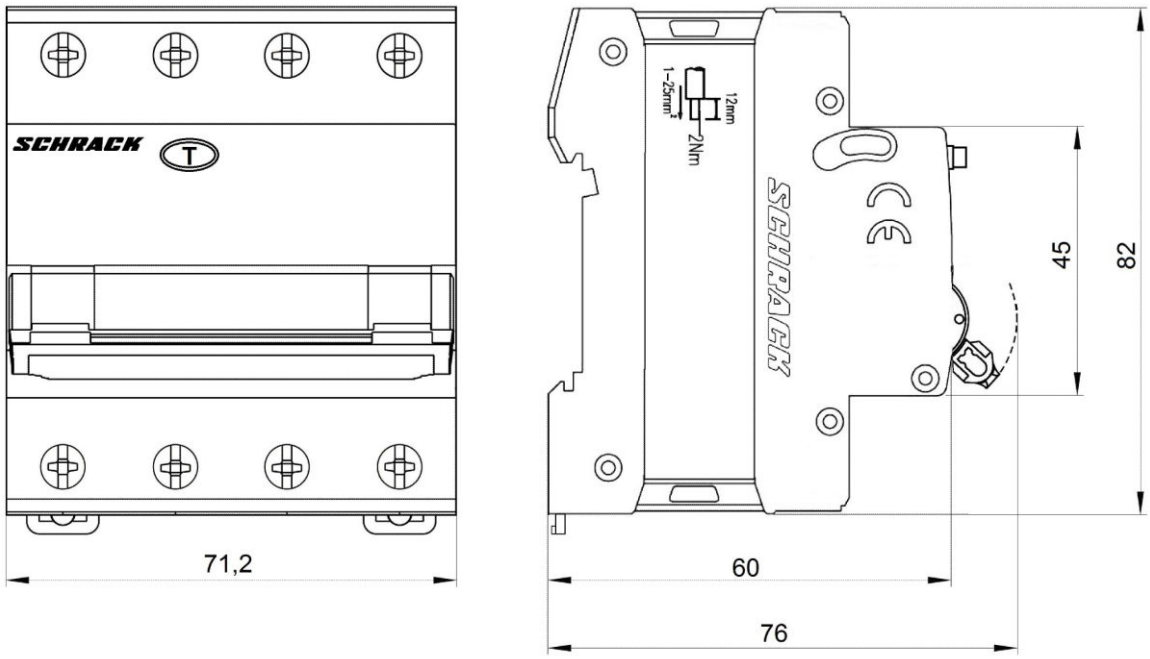
Rated sensitivity IΔn (mA)	30
Tripping characteristics	C
Rated current (A)	16
Amperage (A)	16
Poles	3+N
Rated voltage	230/400 V AC
Rated frequency (Hz)	50/ 60
Energy limiting class	3
Breaking capacity Im (A)	3000
Short circuit withstand	6 kA
Rated breaking capacity (kA)	6
Rated impulse withstand voltage Uimp	4kV
Dielectric test voltage at ind. Frequence (V)	2000
Insulation voltage	500 V
Max. permissible back-up fuse against short circuit (A gG)	63
Trigger time undelayed	≤0,1s
Power loss (W)	6,84
Pollution degree	2
Lifetime, electric	2000 Operations
Lifespan, mechanical	10000 Operations
Contact setting display	Yes
IP Rating	IP20
Terminal cross section (mm^2)	1-25
Clamp size for busbar	10 mm^2
Conductor material	Copper
Torque	2 Nm
Infeed	two-sided
Terminal type	Double funtion clamp / pin and fork busbar
Reference temperature (°C)	30
Ambient temperature Open (°C)	-25°C bis +70
Mounting	On DIN rail according to EN 60715 (35mm) via quick mounting clip
Optional Accessories	AM900099--;BSB90121--;BSB90122--
Series	AMPARO

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Circuit diagram



Dimensions



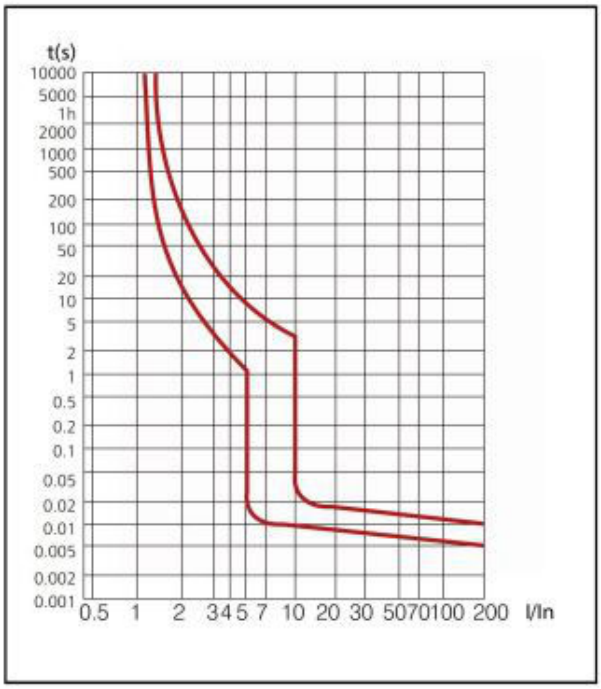
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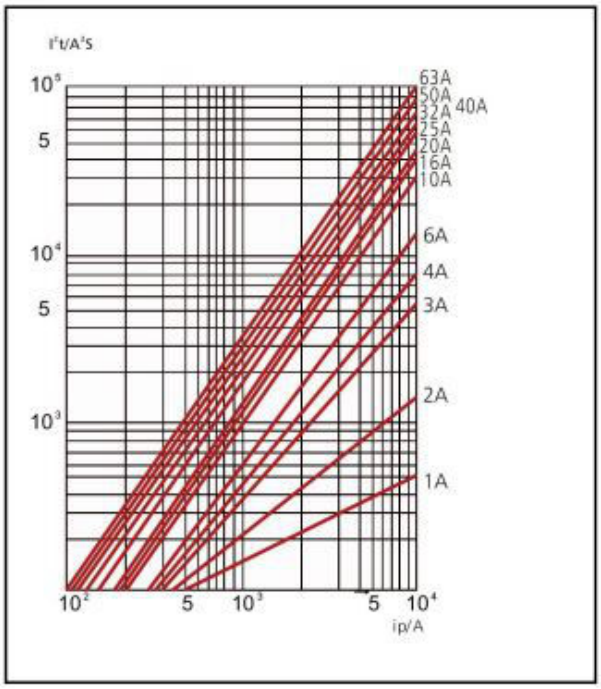
Tripping characteristic according to IEC 60898

Kennlinie C



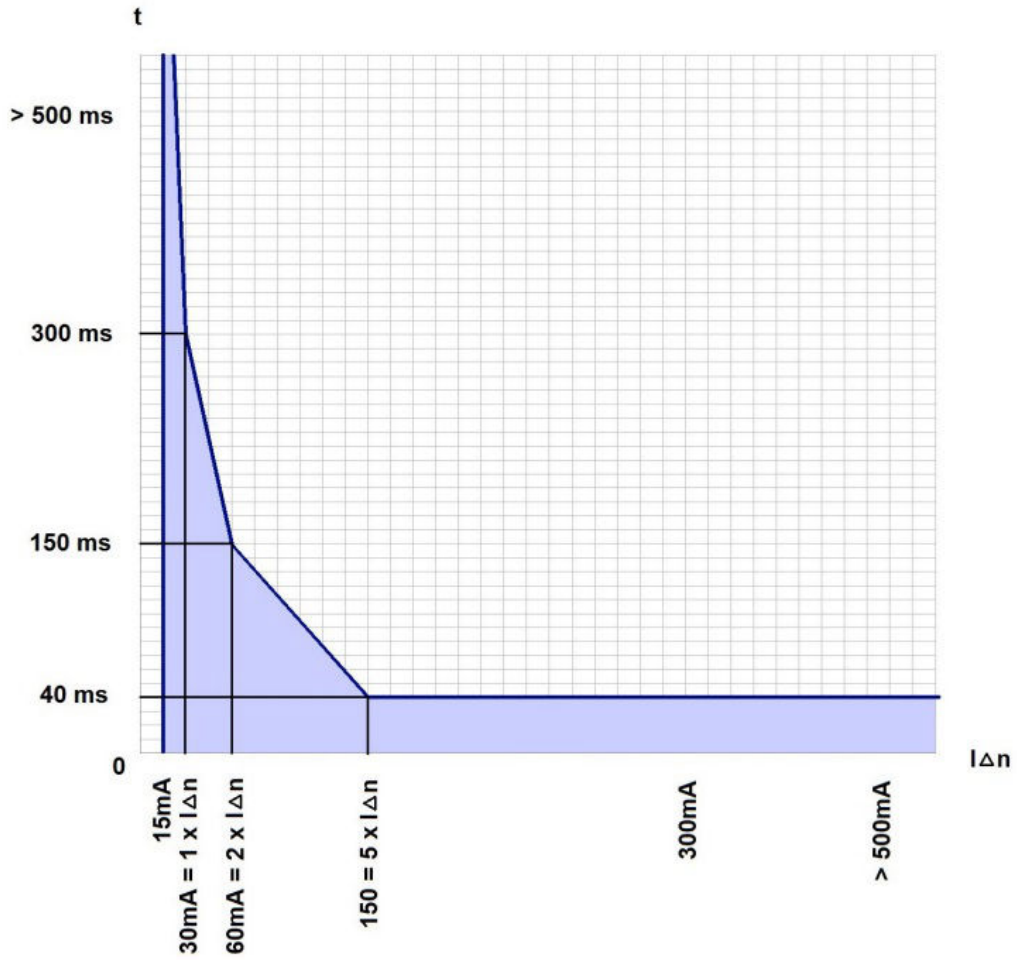
Let-through energy characteristic

Durchlassenergie I^2t



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Tripping characteristic



Influence of the ambient temperature on the thermal tripping behavior

	Ambient Temperature T [°C]								
In [A]	**-10°C**	**0°C**	**10°C**	**20°C**	**30°C**	**40°C**	**50°C**	**60°C**	**70°C**
6	7.2	6.9	6.6	6.3	**6**	5.7	5.4	5.1	4.8
10	12	11.5	11	10.5	**10**	9.5	9	8.5	8
13	15.6	14.95	14.3	13.65	**13**	12.35	11.7	11.05	10.4
16	19.2	18.4	17.6	16.8	**16**	15.2	14.4	13.6	12.8
20	24	23	22	21	**20**	19	18	17	16
25	30	28.8	27.5	26.3	**25**	23.8	22.5	21.3	20
32	38.4	36.8	35.2	33.6	**32**	30.4	28.8	27.2	25.6
40	48	46	44	42	**40**	38	36	34	32

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

Short-circuit selectivity **Characteristic B** of fuse insert

	NH-00 gL/gG								
I_n [A]	**20**	**25**	**36**	**50**	**63**	**80**	**100**	**125**	**160**
6	0.5 kA	0.8 kA	1.9 kA	2.5 kA	4.5 kA	5 kA	6 kA	6 kA	6 kA
10		0.7 kA	1.4 kA	2.2 kA	3.2 kA	3.6 kA	6 kA	6 kA	6 kA
16			1.2 kA	1.8 kA	2.6 kA	3 kA	5.6 kA	6 kA	6 kA
20				1.5 kA	2.2 kA	2.5 kA	4.6 kA	6 kA	6 kA
25				1.3 kA	2 kA	2.2 kA	4.1 kA	5.5 kA	6 kA

Short-circuit selectivity **Characteristic C** of fuse insert

	NH-00 gL/gG								
I_n [A]	**20**	**25**	**36**	**50**	**63**	**80**	**100**	**125**	**160**
6	0.5 kA	0.8 kA	1.9 kA	2.5 kA	4.5 kA	5 kA	6 kA	6 kA	6 kA
10		0.7 kA	1.4 kA	2.2 kA	3.2 kA	3.6 kA	6 kA	6 kA	6 kA
16			1.2 kA	1.8 kA	2.6 kA	3 kA	5.6 kA	6 kA	6 kA
20				1.5 kA	2.2 kA	2.5 kA	4.6 kA	6 kA	6 kA
25				1.3 kA	2 kA	2.2 kA	4.1 kA	5.5 kA	6 kA

Short-circuit selectivity to circuit breaker size 1

Short-circuit selectivity **Kennlinie B** of fuse insert

	MC1				
I_n [A]	**40**	**50**	**63**	**80**	**100**
6	1.2 kA	2 kA	2.5 kA	3 kA	5 kA
10	1.2 kA	1.5kA	2 kA	2 kA	4 kA
16	1 kA	1.2 kA	1.5 kA	2 kA	3 kA
20	0.8 kA	1.2 kA	1.5 kA	1.5 kA	3 kA
25	0.7 kA	1.2 kA	1.5 kA	1.5 kA	3 kA

Short-circuit selectivity **Kennlinie C** of fuse insert

	MC1				
I_n [A]	**40**	**50**	**63**	**80**	**100**
6	1.2 kA	2 kA	2.5 kA	3 kA	5 kA
10	1.2 kA	1.5 kA	2 kA	2 kA	4 kA
16	1 kA	1.2 kA	1.5 kA	2 kA	3 kA
20	0.8 kA	1.2 kA	1.5 kA	1.5 kA	3 kA
25	0.7 kA	1.2 kA	1.5 kA	1.5 kA	3 kA

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Short-circuit selectivity to circuit breaker size 2

Short-circuit selectivity **Kennlinie B** to circuit breaker

	MC2				
I_n [A]	**40**	**50**	**63**	**80**	**100**
6	1.2 kA	1.5 kA	2.5 kA	3 kA	6 kA
10	1 kA	1.5 kA	2.5 kA	3 kA	6 kA
13	1 kA	1.2 kA	2 kA	3 kA	6 kA
16	1 kA	1.2 kA	1.5 kA	2.5 kA	6 kA
20	1 kA	1.2 kA	1.5 kA	2 kA	6 kA
25	0.8 kA	1 kA	1.5 kA	2 kA	6 kA

Short-circuit selectivity **Kennlinie C** to circuit breaker

	MC2				
I_n [A]	**40**	**50**	**63**	**80**	**100**
6	1.2 kA	1.5 kA	2.5 kA	3 kA	6 kA
10	1 kA	1.5 kA	2.5 kA	3 kA	6 kA
13	1 kA	1.2 kA	2 kA	3 kA	6 kA
16	1 kA	1.2 kA	1.5 kA	2.5 kA	6 kA
20	1 kA	1.2 kA	1.5 kA	1.5 kA	6 kA
25	0.8 kA	1 kA	1.5 kA	2 kA	6 kA

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Number of possible wires

Cross-section [mm²]	Number of rigid single wire conductors					
	1	2	3	4	5	6
1	+	+	+	+	+	+
1.5	+	+	+	+	+	+
2.5	+	+	+	-	-	-
4	+	+	+	-	-	-
6	+	+	+	-	-	-

Cross-section [mm²]	Number of rigid multi wire conductors					
	1	2	3	4	5	6
10	+	+	-	-	-	-
16	+	-	-	-	-	-
25	+	-	-	-	-	-

Cross-section [mm²]	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 [mm²]	Number of flexible single wire conductors (with ferrule)					
	1	2	3	4	5	6
1	+	-	-	-	-	-
1.5	+	-	-	-	-	-
2.5	+	-	-	-	-	-
4	+	-	-	-	-	-
6	+	-	-	-	-	-
10	+	-	-	-	-	-
16	+	-	-	-	-	-
25	-	-	-	-	-	-

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Article Table

DESCRIPTION	COPPER WEIGHT (kg/km)	Order No.
Combined MCB/RCD (RCBO) 3+N, AMPARO 6kA, C 16A, 30mA, Typ A Neutralconductor on the right side, Product category A, Type undelayed, Product standard EN 61009-1:2012 + A1:2014 + A2:2014 + A11:2015 + A12:2016,EN 61009-2-1:1994 + A11:1998,IEC 61009-1,IEC 61009-2-1		AK667816
Optional Accessories		
Auxiliary Contact 1CO, series AMPARO snap-on Product category AM6, Product standard EN 60947-5-1:2017		AM900099
Busbar fork 4-pole, L1/L2/L3/N, 10mm², 1m Not possible to break off, shortenable on both sides, TE=17.8mm	695	BSB90121
Busbar fork 4-pole, L1/L2/L3/N, 16mm², 1m Not possible to break off, shortenable on both sides, TE=17.8mm	825	BSB90122

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