




Product overview
Mechanical products

Type	4230-T	4230-T	2216-S	2210-T
				
Mounting method	symmetrical rail	symmetrical rail	plug-in on terminal block	symmetrical rail
Standards, approvals	IEC/EN 60947-2, TÜV, UL489	IEC/EN 60947-2, TÜV, UL1077	IEC/EN 60934, VDE, UL1077, CSA, GL	IEC/EN 60934, VDE, UL1077, CSA, CCC, DNV GL, KC
Number of poles	1, 2, 3 poles	1, 2, 3, 4 poles	1, 2 poles	1, 2, 3, 4 poles
Characteristic curves	B, C, D	B, C, D	F1, F2, M1	F1, F2, M1, T1
Current ratings (A)	1 to 63 A	1 to 63 A	0.5 to 16 A	0.1 to 32 A
Voltage ratings (V)	AC 240/415 V; DC 80 V UL: AC 120 V & AC 240 V (up to 63 A), (AC) 480Y/277 V (up to 32 A), DC 60 V,	AC 240/415 V; DC 80 V UL: AC 480Y/277 V, DC 60 V	AC 240 V (50/60 Hz), DC 50 V	3 AC 433 V, AC 250 V, DC 65 V UL, CSA: AC 480Y/277 V
Auxiliary contact	add-on module 9 mm on the left side	add-on module 9 mm on the left side	integral	integral
Dimensions (wxhxd)	17.6 x 65.7 x 116 mm	17.6 x 65.7 x 82 mm	12.3 x 51.2 x 90 mm	12.5 x 84 x 82.5 mm

Product overview
Electronic products

Type	ESS31-T	REX12-T	ESS30-S, ESS31-T
			
Mounting method	symmetrical rail	symmetrical rail	symmetrical rail
Standards, approvals	UL 1077, UL 2367, UL 1310 NEC Class 2, UL 60947-4, EN 60934	UL 508, UL 2367, UL 1310 NEC Class 2	UL 508, UL 2367, CSA, IECEx, UL121201- 2018 Class I Div 2, ATEX, DNV GL
Current rating range	0.5 - 12 A	1 - 10 A (also adjustable)	0.5 - 16 A (also adjustable)
Operating voltage range U_B	DC 24 V (18 ... 30 V)	DC 24 V (18 ... 30 V)	DC 24 V (18 ... 32 V) (DC 12 V and DC 48 V also available)
Physical isolation	yes	-	-
Connection technology,	screw	push-in	screw
Width per channel	12.5 mm	12.5 mm (1-channel) 6.25 mm (2-channel)	12.5 mm

**UL standards –
the key to the North American market**



Safety for the North American market – with UL approvals

IEC and UL markets are different with regard to the definitions and selection of devices. In the US, the requirements of overcurrent protection devices for use in industrial control panels are stipulated in the application standard UL 508A.

Other major standards that need to be observed include the NFPA 79 (Electrical Standard for Industrial Machinery) for

process control and machine construction and the NEC (National Electric Code)

E-T-A offers a wide range of overcurrent protection devices with approvals for the North American market. It includes powerful »Branch Circuit Protection« as well as selective protection of DC control circuits.



4230-T
MCB for the use as »Branch Circuit Protector« up to 63 A

- Global comprehensive application range through compliance with all relevant standards
- Approvals to UL 489 and IEC 60947-2



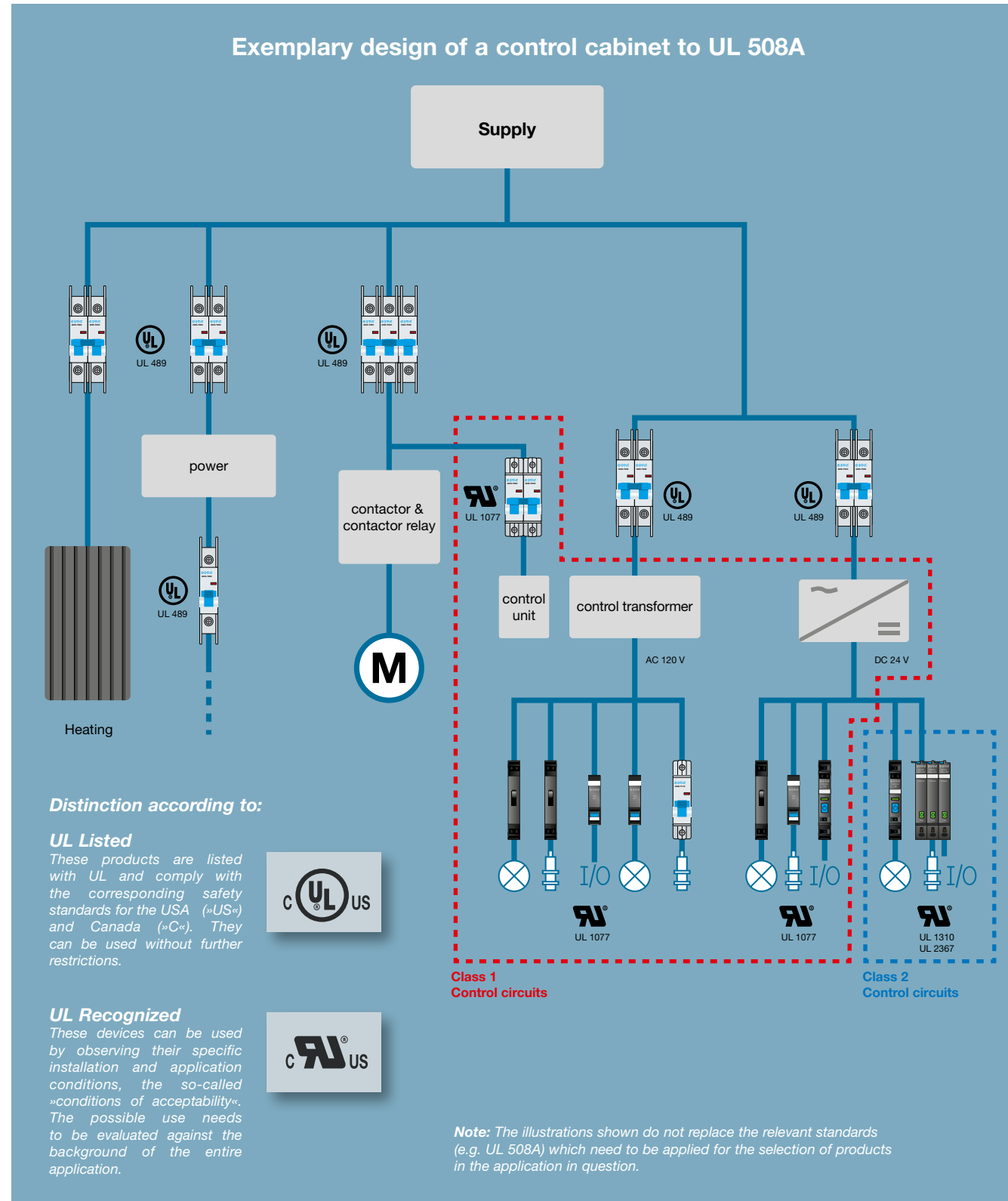
4230-T
MCB for the use as »Supplementary Protector« up to 63 A

- Reduced inventory costs through possible use in both AC and DC applications
- Approvals to UL 1077 and IEC 60947-2



2210-T
Circuit breaker for equipment protection for the use as »Supplementary Protector« up to 32 A

- Increased machine uptime thanks to finest gradings of current ratings and a range of characteristic curves
- Approvals to UL1077 and IEC EN 60934



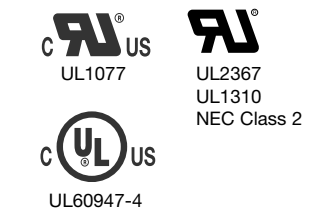
2216-S
Circuit breaker for equipment protection for the use as »Supplementary Protector« up to 16 A

- Flexible planning of machinery through a modular design and convenient adjustment and a choice of wiring options
- Approvals to UL 1077, CSA and IEC 60934



ESS31-T
Electronic circuit breaker for DC 24 V applications up to 12 A

- Enhanced stability of DC supply voltage through physical isolation and active current limitation
- Approvals to UL 1077, UL 2367, UL1310, NEC Class 2, UL 60947-4



REX12-T
Electronic circuit protector for the use in DC 24 V applications up to 10 A

- Enhanced machine uptime through selectivity, quick trouble-shooting and remote diagnosis option
- Approvals to UL508, UL2367, UL1310, NEC Class 2



E-T-A products with UL approvals