

HV Fuse, up to 1250 VAC / 1000 VDC, up to 1100 A



DIN-Rail - Indicator & Microswitch



Flush End - Indicator



US Style Bolted Tag



Bolt-on

500 VDC · 1000 VDC · HV Fuse

See below:

[Approvals and Compliances](#)

Description

- A comprehensive range of square-body fuses, engineered for industrial protection

Unique Selling Proposition

- Compact size
- High safety and reliability
- Mechanical vibration and shock resistance
- Chemical load and temperature shocks resistance

Applications

- Charging Infrastructure
- Manual Service Disconnect
- Energy Storage System/ BESS: Pack, Rack, PCS, Section, Module, PDU
- Power conversion devices (UPS, inverter, rectifiers, drives)
- Industrial equipment (heaters, welding, metal etc. equipment)

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

Rated Voltage	500 VDC, 1000 VDC (1250 VAC available for selected series)
Rated current	50 - 1100 A
Breaking Capacity	50 kA DC (100 kA AC for selected series)
Characteristic	HV Fuse
Mounting	Flush End, DIN-Rail, US style bolted, Bolt-on
Admissible Ambient Temp.	-40 °C to 125 °C
Material: Terminals	Copper alloy, tin-plated
Material: Tube	Ceramic
Storage Conditions	-40 °C to 70 °C, max. 70% r.h.
Product Marking	 Type, Rated current, Rated Voltage, Breaking Capacity, Approvals

Resistance to Vibration	IEC 60068-2-64
Salt mist	IEC 60068-2-11
Damp heat, steady state	IEC 60068-2-3
Thermal Shock	IEC 60068-2-14
Mechanical Shock	IEC 60068-2-27

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: EKO

Approval Logo	Certificates	Certification Body	Description
	UL Approvals	UL	UR File Number: E531402
	CCC Approvals	CCC	CCC Certificate Number: Refer to the link 'CCC-Approvals'

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	IEC 60269-4	Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices
	Designed according to	UL 248-13	Low voltage fuses - Part 13: Semiconductor fuses
	Designed according to	GB/T13539.4	Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices

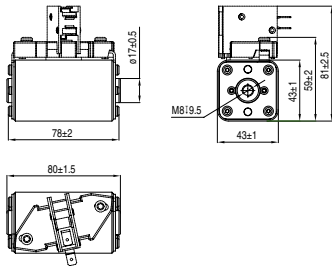
Compliances

The product complies with following Guide Lines

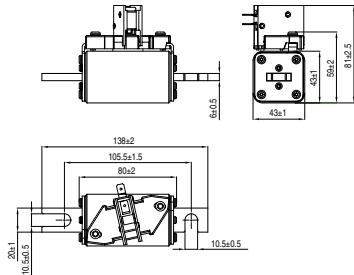
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]

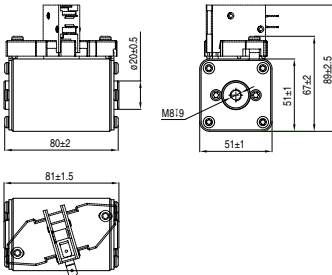
EK011 FLA (-LS)



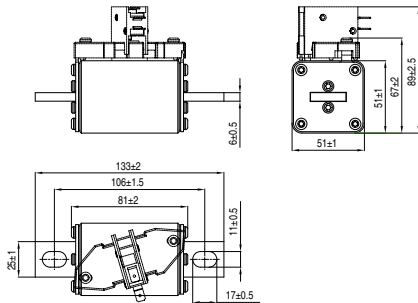
EK011 DIA (-LS)



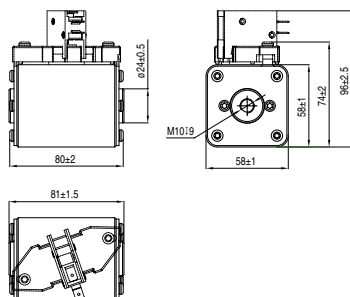
EK012 FLA (-LS)



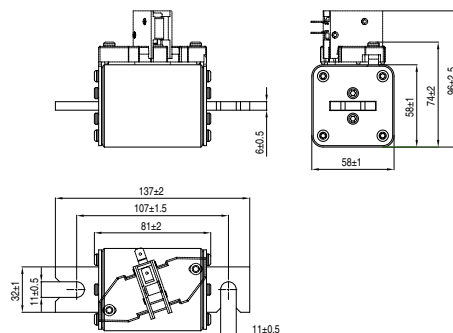
EK012 UBA (-LS)



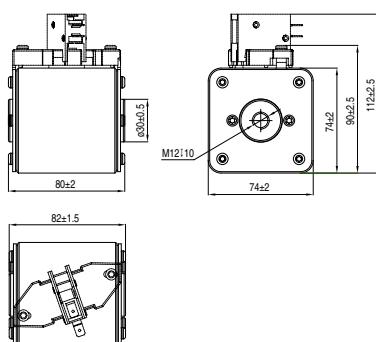
EK013 FLA (-LS)



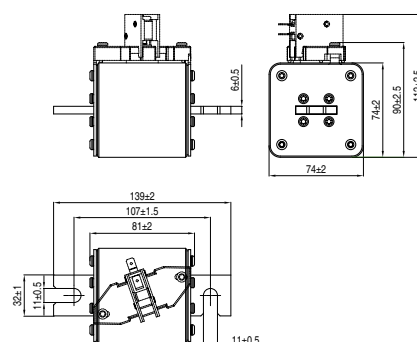
EK013 DIA (-LS)



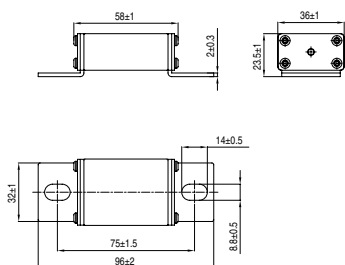
EK014 FLA (-LS)



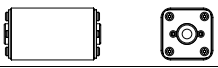
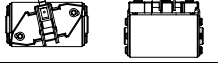
EK014 DIA (-LS)



EK081 B0A

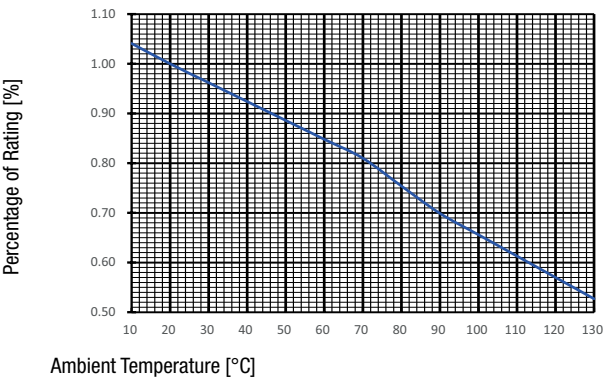


Assembly Instructions

-FL(*)		Mounting: Flush End
-DI(*)		Mounting: DIN-Rail
-UB(*)		Mounting: US Style Bolted Tag
-LN		Accessory: Indicator
-LS		Accessory: Indicator with microswitch

Remark: (*) stand for terminal size variable, e.g. FLA, DIA, etc.

Derating Curves

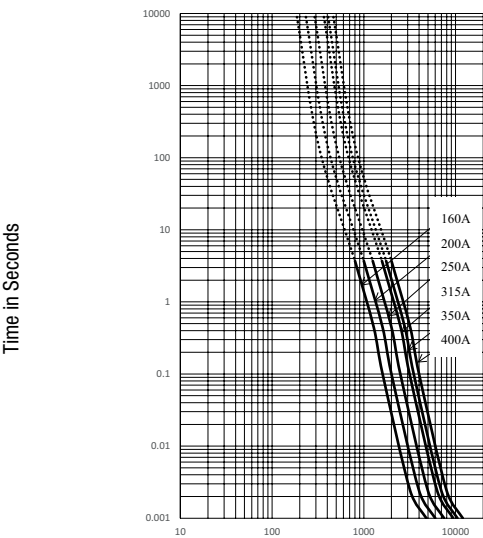


Pre-Arcing Time

Rated Current I_n	5.0 x I_n min.	8.0 x I_n min.
50 A - 1100 A	1 s	0.02 s

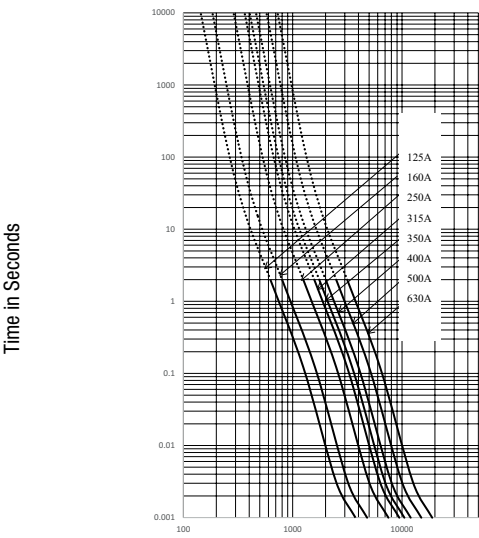
Time-Current-Curves

EK011 160-400 A



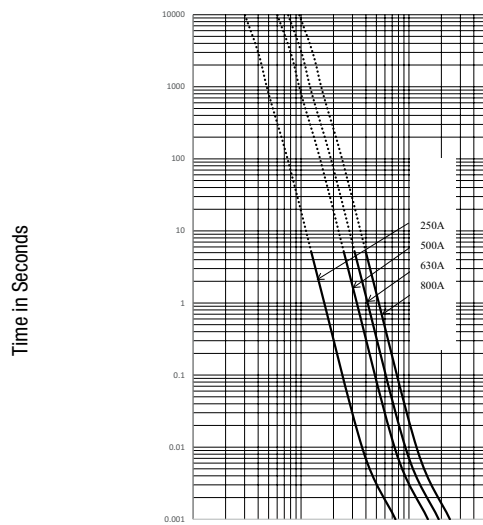
Current in Amperes

EK012 125-630 A



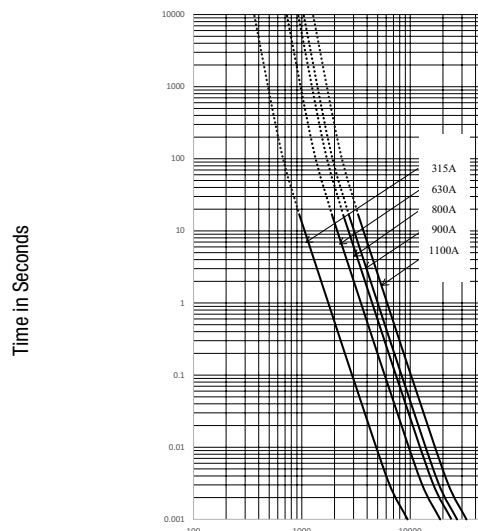
Current in Amperes

EK013 250-800 A



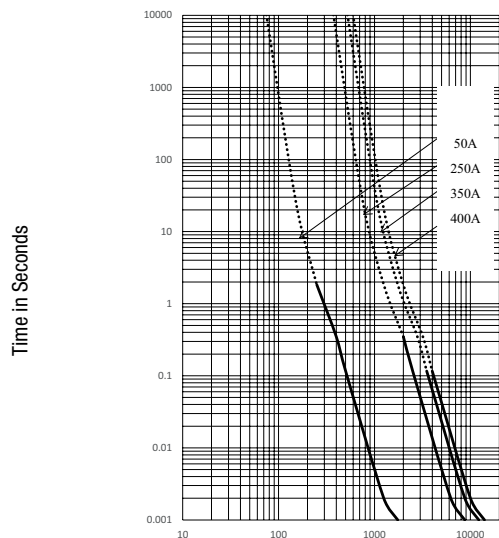
Current in Amperes

EK014 315-1100 A



Current in Amperes

EK081 50-400 A, 500 VDC



Current in Amperes

Variants

Product Series	Rated Current [A]	Rated Voltage [VDC]	Rated Voltage [VAC]	Mounting	Length [mm]	Width [mm]	Height [mm]	Indicator	Micro Switch	Breaking Capacity	Pre-arcing I ² t typ. [kA ² s]	Melting I ² t typ. [kA ² s]	Power Dissipation 1.0 I _n typ. [W]	 US		Packaging [PCS]	Order Number
EK011	160	1000	1250	FLA	80	43	43			2)	18.3	50.4	44	●	●	60	8060.0025
EK011	200	1000	1250	FLA	80	43	43			2)	28.5	78.8	54	●	●	60	8060.0026
EK011	250	1000	1250	FLA	80	43	43			2)	44.6	123.1	64	●	●	60	8060.0027

Product Series	Rated Current [A]	Rated Voltage [VDC]	Rated Voltage [VAC]	Moun-ting	Length [mm]	Width [mm]	Height [mm]	Indica-tor	Micro Switch	Brea-king Capa-city	Pre-arcing I ² t typ. [kA ² s]	Melting I ² t typ. [kA ² s]	Power Dissipation 1.0 I _n typ. [W]		 VAC 1140	Packa-ging [PCS]	Order Number
EKO11	315	1000	1250	FLA	80	43	43			2)	70.8	195.4	80	●	●	60	8060.0028
EKO11	350	1000	1250	FLA	80	43	43			2)	87.4	241.2	88	●	●	60	8060.0029
EKO11	400	1000	1250	FLA	80	43	43			2)	114.1	315.1	97	●	●	60	8060.0030
EKO11	160	1000	1250	FLA	80	43	43	●		2)	18.3	50.4	44	●	●	60	8060.0036
EKO11	200	1000	1250	FLA	80	43	43	●		2)	28.5	78.8	54	●	●	60	8060.0037
EKO11	250	1000	1250	FLA	80	43	43	●		2)	44.6	123.1	64	●	●	60	8060.0038
EKO11	315	1000	1250	FLA	80	43	43	●		2)	70.8	195.4	80	●	●	60	8060.0039
EKO11	350	1000	1250	FLA	80	43	43	●		2)	87.4	241.2	88	●	●	60	8060.0040
EKO11	400	1000	1250	FLA	80	43	43	●		2)	114.1	315.1	97	●	●	60	8060.0041
EKO11	160	1000	1250	FLA	80	43	43	●	●	2)	18.3	50.4	44	●	●	60	3-158-362
EKO11	200	1000	1250	FLA	80	43	43	●	●	2)	28.5	78.8	54	●	●	60	3-158-363
EKO11	250	1000	1250	FLA	80	43	43	●	●	2)	44.6	123.1	64	●	●	60	3-158-364
EKO11	315	1000	1250	FLA	80	43	43	●	●	2)	70.8	195.4	80	●	●	60	3-158-365
EKO11	350	1000	1250	FLA	80	43	43	●	●	2)	87.4	241.2	88	●	●	60	3-158-366
EKO11	400	1000	1250	FLA	80	43	43	●	●	2)	114.1	315.1	97	●	●	60	3-158-367
EKO11	160	1000	1250	DIA	80	43	43			2)	18.3	50.4	44	●	●	60	8060.0065
EKO11	200	1000	1250	DIA	80	43	43			2)	28.5	78.8	54	●	●	60	8060.0066
EKO11	250	1000	1250	DIA	80	43	43			2)	44.6	123.1	64	●	●	60	8060.0067
EKO11	315	1000	1250	DIA	80	43	43			2)	70.8	195.4	80	●	●	60	8060.0068
EKO11	350	1000	1250	DIA	80	43	43			2)	87.4	241.2	88	●	●	60	8060.0069
EKO11	400	1000	1250	DIA	80	43	43			2)	114.1	315.1	97	●	●	60	8060.0070
EKO11	160	1000	1250	DIA	80	43	43	●		2)	18.3	50.4	44	●	●	60	8060.0076
EKO11	200	1000	1250	DIA	80	43	43	●		2)	28.5	78.8	54	●	●	60	8060.0077
EKO11	250	1000	1250	DIA	80	43	43	●		2)	44.6	123.1	64	●	●	60	8060.0078
EKO11	315	1000	1250	DIA	80	43	43	●		2)	70.8	195.4	80	●	●	60	8060.0079
EKO11	350	1000	1250	DIA	80	43	43	●		2)	87.4	241.2	88	●	●	60	8060.0080
EKO11	400	1000	1250	DIA	80	43	43	●		2)	114.1	315.1	97	●	●	60	8060.0081
EKO11	160	1000	1250	DIA	80	43	43	●	●	2)	18.3	50.4	44	●	●	60	3-158-368
EKO11	200	1000	1250	DIA	80	43	43	●	●	2)	28.5	78.8	54	●	●	60	3-158-369
EKO11	250	1000	1250	DIA	80	43	43	●	●	2)	44.6	123.1	64	●	●	60	3-158-387
EKO11	315	1000	1250	DIA	80	43	43	●	●	2)	70.8	195.4	80	●	●	60	3-158-388
EKO11	350	1000	1250	DIA	80	43	43	●	●	2)	87.4	241.2	88	●	●	60	3-158-466
EKO11	400	1000	1250	DIA	80	43	43	●	●	2)	114.1	315.1	97	●	●	60	3-158-389
EKO12	125	1000	500	FLA	81	51	51			1)	12	37.4	32	●	●	60	8060.0140
EKO12	160	1000	500	FLA	81	51	51			1)	19.7	61.3	40	●	●	60	8060.0141
EKO12	250	1000	500	FLA	81	51	51			1)	48.1	149.6	56	●	●	60	8060.0143
EKO12	315	1000	500	FLA	81	51	51			1)	76.4	237.5	67	●	●	60	8060.0144
EKO12	350	1000	500	FLA	81	51	51			1)	94.3	293.2	73	●	●	60	8060.0145
EKO12	400	1000	500	FLA	81	51	51			1)	123.2	383	83	●	●	60	8060.0146
EKO12	500	1000	500	FLA	81	51	51			1)	192.4	598.4	102	●	●	60	8060.0148
EKO12	630	1000	500	FLA	81	51	51			1)	305.5	950	129	●	●	60	8060.0149
EKO12	125	1000	500	FLA	81	51	51	●		1)	12	37.4	32	●	●	60	8060.0150
EKO12	160	1000	500	FLA	81	51	51	●		1)	19.7	61.3	40	●	●	60	8060.0151
EKO12	250	1000	500	FLA	81	51	51	●		1)	48.1	149.6	56	●	●	60	8060.0153
EKO12	315	1000	500	FLA	81	51	51	●		1)	76.4	237.5	67	●	●	60	8060.0154

Product Series	Rated Current [A]	Rated Voltage [VDC]	Rated Voltage [VAC]	Moun-ting	Length [mm]	Width [mm]	Height [mm]	Indica-tor	Micro Switch	Brea-king Capa-city	Pre-arcing I _{pt} typ. [kA ² s]	Melting I _t typ. [kA ² s]	Power Dissipation 1.0 I _n typ. [W]			Packa-ging [PCS]	Order Number
EK012	350	1000	500	FLA	81	51	51	●		1)	94.3	293.2	73	●	●	60	8060.0155
EK012	400	1000	500	FLA	81	51	51	●		1)	123.2	383	83	●	●	60	8060.0156
EK012	500	1000	500	FLA	81	51	51	●		1)	192.4	598.4	102	●	●	60	8060.0158
EK012	630	1000	500	FLA	81	51	51	●		1)	305.5	950	129	●	●	60	8060.0159
EK012	125	1000	500	FLA	81	51	51	●	●	1)	12	37.4	32	●	●	60	3-158-390
EK012	160	1000	500	FLA	81	51	51	●	●	1)	19.7	61.3	40	●	●	60	3-158-397
EK012	250	1000	500	FLA	81	51	51	●	●	1)	48.1	149.6	56	●	●	60	3-158-391
EK012	315	1000	500	FLA	81	51	51	●	●	1)	76.4	237.5	67	●	●	60	3-158-392
EK012	350	1000	500	FLA	81	51	51	●	●	1)	94.3	293.2	73	●	●	60	3-158-393
EK012	400	1000	500	FLA	81	51	51	●	●	1)	123.2	383	83	●	●	60	3-158-394
EK012	500	1000	500	FLA	81	51	51	●	●	1)	192.4	598.4	102	●	●	60	3-158-395
EK012	630	1000	500	FLA	81	51	51	●	●	1)	305.5	950	129	●	●	60	3-158-396
EK012	125	1000	500	UBA	81	51	51			1)	12	37.4	32	●	●	60	8060.0170
EK012	160	1000	500	UBA	81	51	51			1)	19.7	61.3	40	●	●	60	8060.0171
EK012	250	1000	500	UBA	81	51	51			1)	48.1	149.6	56	●	●	60	8060.0173
EK012	315	1000	500	UBA	81	51	51			1)	76.4	237.5	67	●	●	60	8060.0174
EK012	350	1000	500	UBA	81	51	51			1)	94.3	293.2	73	●	●	60	8060.0175
EK012	400	1000	500	UBA	81	51	51			1)	123.2	383	83	●	●	60	8060.0176
EK012	500	1000	500	UBA	81	51	51			1)	192.4	598.4	102	●	●	60	8060.0178
EK012	630	1000	500	UBA	81	51	51			1)	305.5	950	129	●	●	60	8060.0179
EK012	125	1000	500	UBA	81	51	51	●		1)	12	37.4	32	●	●	60	8060.0180
EK012	160	1000	500	UBA	81	51	51	●		1)	19.7	61.3	40	●	●	60	8060.0181
EK012	250	1000	500	UBA	81	51	51	●		1)	48.1	149.6	56	●	●	60	8060.0183
EK012	315	1000	500	UBA	81	51	51	●		1)	76.4	237.5	67	●	●	60	8060.0184
EK012	350	1000	500	UBA	81	51	51	●		1)	94.3	293.2	73	●	●	60	8060.0185
EK012	400	1000	500	UBA	81	51	51	●		1)	123.2	383	83	●	●	60	8060.0186
EK012	500	1000	500	UBA	81	51	51	●		1)	192.4	598.4	102	●	●	60	8060.0188
EK012	630	1000	500	UBA	81	51	51	●		1)	305.5	950	129	●	●	60	8060.0189
EK012	125	1000	500	UBA	81	51	51	●	●	1)	12	37.4	32	●	●	60	3-158-398
EK012	160	1000	500	UBA	81	51	51	●	●	1)	19.7	61.3	40	●	●	60	3-159-088
EK012	250	1000	500	UBA	81	51	51	●	●	1)	48.1	149.6	56	●	●	60	3-158-465
EK012	315	1000	500	UBA	81	51	51	●	●	1)	76.4	237.5	67	●	●	60	3-158-401
EK012	350	1000	500	UBA	81	51	51	●	●	1)	94.3	293.2	73	●	●	60	3-158-402
EK012	400	1000	500	UBA	81	51	51	●	●	1)	123.2	383	83	●	●	60	3-158-403
EK012	500	1000	500	UBA	81	51	51	●	●	1)	192.4	598.4	102	●	●	60	3-158-404
EK012	630	1000	500	UBA	81	51	51	●	●	1)	305.5	950	129	●	●	60	3-158-405
EK013	250	1000	1250	FLA	81	58	58			2)	29.8	93.1	58		●	24	8060.0210
EK013	500	1000	1250	FLA	81	58	58			2)	119.1	372.3	100		●	24	8060.0215
EK013	630	1000	1250	FLA	81	58	58			2)	189.1	591	127		●	24	8060.0216
EK013	800	1000	1250	FLA	81	58	58			2)	305	953	205		●	24	8060.0218
EK013	250	1000	1250	FLA	81	58	58	●		2)	29.8	93.1	58		●	24	8060.0219
EK013	500	1000	1250	FLA	81	58	58	●		2)	119.1	372.3	100		●	24	8060.0224
EK013	630	1000	1250	FLA	81	58	58	●		2)	189.1	591	127		●	24	8060.0225
EK013	800	1000	1250	FLA	81	58	58	●		2)	305	953	205		●	24	8060.0227
EK013	250	1000	1250	FLA	81	58	58	●	●	2)	29.8	93.1	58		●	24	3-158-406

Product Series	Rated Current [A]	Rated Voltage [VDC]	Rated Voltage [VAC]	Moun-ting	Length [mm]	Width [mm]	Height [mm]	Indica-tor	Micro Switch	Brea-king Capacity	Pre-arcing I _{pt} typ. [kA ² s]	Melting I _{pt} typ. [kA ² s]	Power Dissipation 1.0 I _n typ. [W]			Packa-ging [PCS]	Order Number
EKO13	500	1000	1250	FLA	81	58	58	●	●	2)	119.1	372.3	100	●	●	24	3-158-407
EKO13	630	1000	1250	FLA	81	58	58	●	●	2)	189.1	591	127	●	●	24	3-158-408
EKO13	800	1000	1250	FLA	81	58	58	●	●	2)	305	953	205	●	●	24	3-158-409
EKO13	250	1000	1250	DIA	81	58	58			2)	29.8	93.1	58	●	●	24	8060.0240
EKO13	500	1000	1250	DIA	81	58	58			2)	119.1	372.3	100	●	●	24	8060.0245
EKO13	630	1000	1250	DIA	81	58	58			2)	189.1	591	127	●	●	24	8060.0246
EKO13	800	1000	1250	DIA	81	58	58			2)	305	953	205	●	●	24	8060.0248
EKO13	250	1000	1250	DIA	81	58	58	●		2)	29.8	93.1	58	●	●	24	8060.0249
EKO13	500	1000	1250	DIA	81	58	58	●		2)	119.1	372.3	100	●	●	24	8060.0254
EKO13	630	1000	1250	DIA	81	58	58	●		2)	189.1	591	127	●	●	24	8060.0255
EKO13	800	1000	1250	DIA	81	58	58	●		2)	305	953	205	●	●	24	8060.0257
EKO13	250	1000	1250	DIA	81	58	58	●	●	2)	29.8	93.1	58	●	●	24	3-158-410
EKO13	500	1000	1250	DIA	81	58	58	●	●	2)	119.1	372.3	100	●	●	24	3-158-411
EKO13	630	1000	1250	DIA	81	58	58	●	●	2)	189.1	591	127	●	●	24	3-158-412
EKO13	800	1000	1250	DIA	81	58	58	●	●	2)	305	953	205	●	●	24	3-158-413
EKO14	315	1000	1250	FLA	82	74	74			2)	130.4	250.1	87	●	●	24	8060.0290
EKO14	630	1000	1250	FLA	82	74	74			2)	521.5	1000.5	162	●	●	24	8060.0299
EKO14	800	1000	1250	FLA	82	74	74			2)	841	1613.2	198	●	●	24	8060.0302
EKO14	900	1000	1250	FLA	82	74	74			2)	1064.4	2041.7	223	●	●	24	8060.0304
EKO14	1100	1000	1250	FLA	82	74	74			2)	1590	3050	266	●	●	24	8060.0307
EKO14	315	1000	1250	FLA	82	74	74	●		2)	130.4	250.1	87	●	●	24	8060.0308
EKO14	630	1000	1250	FLA	82	74	74	●		2)	521.5	1000.5	162	●	●	24	8060.0317
EKO14	800	1000	1250	FLA	82	74	74	●		2)	841	1613.2	198	●	●	24	8060.0320
EKO14	900	1000	1250	FLA	82	74	74	●		2)	1064.4	2041.7	223	●	●	24	8060.0322
EKO14	1100	1000	1250	FLA	82	74	74	●		2)	1590	3050	266	●	●	24	8060.0325
EKO14	315	1000	1250	FLA	82	74	74	●	●	2)	130.4	250.1	87	●	●	24	3-158-415
EKO14	630	1000	1250	FLA	82	74	74	●	●	2)	521.5	1000.5	162	●	●	24	3-158-416
EKO14	800	1000	1250	FLA	82	74	74	●	●	2)	841	1613.2	198	●	●	24	3-158-417
EKO14	900	1000	1250	FLA	82	74	74	●	●	2)	1064.4	2041.7	223	●	●	24	3-158-418
EKO14	1100	1000	1250	FLA	82	74	74	●	●	2)	1590	3050	266	●	●	24	3-158-419
EKO14	315	1000	1250	DIA	82	74	74			2)	130.4	250.1	87	●	●	12	8060.0398
EKO14	630	1000	1250	DIA	82	74	74			2)	521.5	1000.5	162	●	●	12	8060.0407
EKO14	800	1000	1250	DIA	82	74	74			2)	841	1613.2	198	●	●	12	8060.0410
EKO14	900	1000	1250	DIA	82	74	74			2)	1064.4	2041.7	223	●	●	12	8060.0412
EKO14	1100	1000	1250	DIA	82	74	74			2)	1590	3050	266	●	●	12	8060.0415
EKO14	315	1000	1250	DIA	82	74	74	●		2)	130.4	250.1	87	●	●	12	8060.0416
EKO14	630	1000	1250	DIA	82	74	74	●		2)	521.5	1000.5	162	●	●	12	8060.0425
EKO14	800	1000	1250	DIA	82	74	74	●		2)	841	1613.2	198	●	●	12	8060.0428
EKO14	900	1000	1250	DIA	82	74	74	●		2)	1064.4	2041.7	223	●	●	12	8060.0430
EKO14	1100	1000	1250	DIA	82	74	74	●		2)	1590	3050	266	●	●	12	8060.0433
EKO14	315	1000	1250	DIA	82	74	74	●	●	2)	130.4	250.1	87	●	●	12	3-158-420
EKO14	630	1000	1250	DIA	82	74	74	●	●	2)	521.5	1000.5	162	●	●	12	3-158-422
EKO14	800	1000	1250	DIA	82	74	74	●	●	2)	841	1613.2	198	●	●	12	3-158-423
EKO14	900	1000	1250	DIA	82	74	74	●	●	2)	1064.4	2041.7	223	●	●	12	3-158-424
EKO14	1100	1000	1250	DIA	82	74	74	●	●	2)	1590	3050	266	●	●	12	3-158-425

Product Series	Rated Current [A]	Rated Voltage [VDC]	Rated Voltage [VAC]	Mounting	Length [mm]	Width [mm]	Height [mm]	Indicator	Micro Switch	Breaking Capacity	Pre-arcing I ² t typ. [kA²s]	Melting I ² t typ. [kA²s]	Power Dissipation 1.0 I _n typ. [W]			Packaging [PCS]	Order Number
EK081	50	500	-	BOA	58	36	23.5			1)	2.7	7.3	9	●	●	180	3-158-849
EK081	250	500	-	BOA	58	36	23.5			1)	67.9	182.2	44	●	●	180	3-158-850
EK081	350	500	-	BOA	58	36	23.5			1)	133	357.2	63	●	●	180	3-158-851
EK081	400	500	-	BOA	58	36	23.5			1)	173.7	466.5	77	●	●	180	3-158-852

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

Breaking Capacity

1) 50kA@10ms

2) AC100kA/DC50kA@10ms