DATASHEET - T5B-4-8343/14



On-Off switch, T5B, 63 A, surface mounting, 4 contact unit(s), 7-pole, with black thumb grip and front plate



Part no. T5B-4-8343/I4





Delivery program	
Product range	On-Off switch
Part group reference	T5B
	with black thumb grip and front plate
Number of poles	7-pole
Degree of Protection	IP65
	totally insulated
Design	surface mounting
Contact sequence	1 0 X 2 0 X 3 0 X 5 0 X 7 0 X 8 0 X 9 0 X 11 0 X 11 0 X 13 0 X
Switching angle	° 90
Switching performance	maintained
Design number	8343
Front plate no.	FS 908
front plate	0-1

Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	30
Rated uninterrupted current	I _u	Α	63
Note on rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{U}}$ is specified for max. cross-section.
Number of contact units		contact unit(s)	4

Technical data

\mathbf{a}				
	OΙ	10	ro	

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			7-pole
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating		Ü	
Fuse		A gG/gL	80
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	1300
Note on rated short-time withstand current lcw	·CVV	11115	Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	2
Switching capacity	·d	10.1	
cos φ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	520
400/415 V		Α	600
500 V		Α	480
690 V		Α	340
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	4.5
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	4.5
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
	·	X IU	
Maximum operating frequency AC	Operations/h		1200
AC-3			
	Р	kW	
Rating, motor load switch 220 V 230 V	P	kW	15
220 V 230 V 230 V Star-delta	P	kW	18.5
400 V 415 V	P	kW	22
400 V Star-delta	P	kW	30
500 V	Р	kW	22

500 V Star-delta	Р	kW	37
690 V	Р	kW	15
690 V Star-delta	Р	kW	22
Rated operational current motor load switch			
230 V	I _e	Α	51
230 V star-delta	l _e	Α	63
400V 415 V	I _e	Α	41
400 V star-delta	I _e	Α	63
500 V	I _e	Α	33
500 V star-delta	I _e	Α	57.2
690 V	I _e	Α	17
690 V star-delta	I _e	Α	29.4
AC-21A			
Rated operational current switch			
440 V	I _e	Α	63
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	18.5
400 V 415 V	Р	kW	30
500 V	Р	kW	22
690 V	Р	kW	22
Rated operational current motor load switch			
230 V	I _e	Α	63
400 V 415 V	I _e	Α	63
500 V	I _e	A	33
690 V	I _e	A	23.8
	·e	^	
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	A	63
Voltage per contact pair in series	-6	V	60
DC-23A, motor load switch L/R = 15 ms		•	
24 V			
Rated operational current	I _e	A	50
Contacts	6	Quantity	
48 V		Quantity	
Rated operational current	I _e	Α	50
Contacts	-6	Quantity	
60 V		Quantity	_
Rated operational current	I _e	Α	50
Contacts	·e	Quantity	
120 V		Quantity	
Rated operational current	I _e	Α	25
Contacts	•е	Quantity	
240 V		Quantity	
Rated operational current	I _e	A	20
Contacts	·e	Quantity	
DC-13, Control switches L/R = 50 ms		quantity	
Rated operational current		A	25
	le		
Voltage per contact pair in series	Fault	V	24
ntrol circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
rminal capacities			
rminal capacities lid or stranded		mm ²	1 x (2,5 - 35) 2 x (2,5 - 16)

			2 x (1.5 - 10)
Terminal screw			M6
Tightening torque for terminal screw		Nm	4
Technical safety parameters:			
Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	U _e	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
General use		Α	63
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		HP	3
200 V AC		HP	7.5
240 V AC		HP	10
Three-phase			
200 V AC		HP	15
240 V AC		HP	15
480 V AC		HP	40
600 V AC		HP	40
Short Circuit Current Rating		SCCR	
High fault rating		kA	10
max. Fuse		Α	100, Class J
Terminal capacity			
Solid or flexible conductor with ferrule		AWG	12 - 4
Terminal screw			M6
Tightening torque		lb-in	35.4

Design verification as per IEC/EN 61439

Design Verification as per IEG/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40
EC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects $$			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			UV resistance only in connection with protective shield.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.

10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

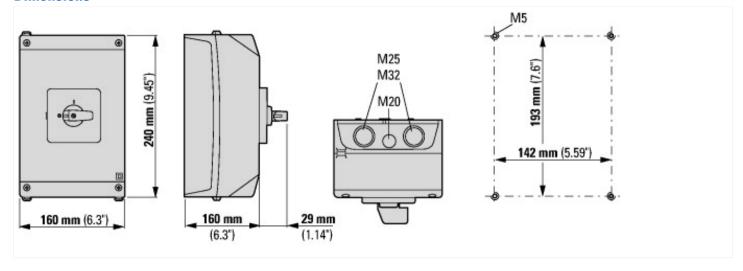
Version as maintentance-/service switch 6 No Version as semigency stop installation 6 No Version as emergency stop installation 8 No Number of switches 1 No Ract operation voltage Us AC V 89 Ract operation voltage Us AC 8 80 Ract operation voltage Us AC A 83 Ract operation power at AC-23,400 V A 83 Ract operation power at AC-23,400 V KW 22 Ract operation power at AC-23,400 V KW 23 Switching power at 400 V KW 20 Vollage ract set short-circuit current lq KW 2 Number of awaliary contacts as normally closed cortact KW 2 Number of awaliary contacts as normally closed cortact KW 2 Number of swilches protects as change-over co	[AKI 0000 TO])		
Version as safety switch No Version as emergency stop installation No Version as reversing switch No Mumber of switches 1 Max. rated operation voltage Ue AC V 898 Rated operating voltage V 890 - 690 Rated permanent current tal A 63 Rated permanent current at AC-27, 400 V A 63 Rated permanent current at AC-27, 400 V A 63 Rated permanent current at AC-27, 400 V A 63 Rated permanent current at AC-27, 400 V A 63 Rated short-time withstand current lcw A 13 Rated short-time withstand current lcw A 13 Rated short-time withstand current lcw A 12 Switching power at 40 V B 2 Vollage reliance power at 40 V B 2 Number of poles 7 7 Number of auxiliary contacts as normally closed contact D 0 Number of auxiliary contacts as change-over contact No No Motor drive inte	Version as main switch		No
Version as emergency stop installation No Version as reversing switch No Number of switches 1 Max. rated operation voltage Us AC V 690 - 890 Rated operating voltage V 690 - 890 Rated operating voltage V 690 - 890 Rated permanent current tu A 63 Rated permanent current at AC-23, 400 V A 63 Rated operation power at AC-24, 400 V KW 22 Rated objectation power at AC-23, 400 V KW 30 Rated objectation power at AC-23, 400 V KW 30 Rated objectation power at AC-23, 400 V KW 30 Rated objectation power at AC-23, 400 V KW 30 Rated objectation power at AC-23, 400 V KW 30 Rated objectation power at AC-23, 400 V KW 30 Witching power at 400 V KW 30 Conditioned rated short-circuit current lq KA 2 Number of poles KW 30 Number of auxiliary contacts as normally closed contact KW 30 Motor drive integrated KW 30 Voltage release optional KW 30 Motor drive integrated KW 30	Version as maintenance-/service switch		No
Version as reversing switch International Control Switches International Control Cont	Version as safety switch		No
Number of switches Asted operation voltage Ue AC Note 1	Version as emergency stop installation		No
Max. rated operation voltage V 690 Rated operating voltage V 690 - 690 Rated permanent current I voltage A 63 Rated permanent current at AC-23, 400 V A 63 Rated permanent current at AC-21, 400 V AV 22 Rated short-time withstand current lew KA 1.3 Rated operation power at AC-23, 400 V KW 30 Switching power at 400 V KW 30 Conditioned rated short-circuit current lq KA 2 Number of poles 7 7 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 No Motor drive pitional No No Motor drive integrated No No Voltage release optional No No Outable for ground mounting Yes Complete device in housing Suitable for front mounting entre No No Suitable for distribution board installation No No Suitable for interm	Version as reversing switch		No
Rated operating voltage V 690 - 690 Rated permanent current tal A 63 Rated permanent current at AC-23, 400 V A 63 Rated operation power at AC-3, 400 V kW 22 Rated operation power at AC-3, 400 V kW 30 Rated operation power at AC-23, 400 V kW 30 Switching power at 400 V kW 30 Switching power at 400 V kW 30 Conditional rated short-circuit current Iq kA 2 Number of poles 7 7 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as change-over contact 0 No Motor drive optional No No Motor drive integrated No No Voltage release optional No Complete device in housing Suitable for ground mounting Yes No Suitable for front mounting centre No No Suitable for intermediate	Number of switches		1
Rated permanent current lu A 63 Rated permanent current at AC-23, 400 V A 63 Rated permanent current at AC-21, 400 V AV 52 Rated operation power at AC-3, 400 V AV 22 Rated operation power at AC-23, 400 V AV 30 Switching power at 400 V AV 30 Conditioned rated short-circuit current lq A 2 Number of poles 7 7 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 No Motor drive optional No No Motor drive integrated No No Voltage release optional No Complete device in housing Suitable for ground mounting Yes No Suitable for front mounting 4-hole No No Suitable for intermediate mounting No No Suitable for intermediate mounting No No Suitable for intermediate mounting No No Suitable for intermediate m	Max. rated operation voltage Ue AC	V	690
Rated permanent current at AC-23, 400 V A 63 Rated permanent current at AC-21, 400 V kW 22 Rated short-time withstand current low kA 1,3 Rated short-time withstand current low kW 30 Rated short-time withstand current low kW 30 Switching power at 400 V kW 30 Conditioned rated short-circuit current lq kA 2 Number of poles 7 7 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact 0 No Motor drive optional No No Motor drive integrated No No Voltage release optional No Complete device in housing Suitable for ground mounting Yes No Suitable for front mounting 4-hole No No Suitable for front mounting entre No No Suitable for intermediate mounting No No Suitable for intermediate mounting No No Suitable f	Rated operating voltage	V	690 - 690
Rated permanent current at AC-21, 400 V	Rated permanent current lu	Α	63
Rated operation power at AC-3, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Row 30 Switching power at 400 V Rw 30 Conditioned rated short-circuit current Iq Row Rated operation power at 400 V Rw 30 Conditioned rated short-circuit current Iq Row Rated operation power at 400 V Rw 30 Conditioned rated short-circuit current Iq Row Rated operation power at 400 V Rw 30 Conditioned rated short-circuit current Iq Row Rated operation power at 400 V Row Rated of poles Row Rated operation power at 400 V Row Rated of poles Row Rated Sport Poles Row Row Rated Sport Poles Row Row Rated Sport Poles Row Rated Spor	Rated permanent current at AC-23, 400 V	Α	63
Rated short-time withstand current lcw Rated operation power at AC-23, 400 V RW 30 Switching power at 400 V RW 30 Conditioned rated short-circuit current lq RAA 2 Number of poles Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Notor drive optional No Motor drive integrated No Voltage release optional Device construction Complete device in housing Suitable for ground mounting Yes Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation No Suitable for intermediate mounting Colour control element Type of control element Type of control element Interlockable No	Rated permanent current at AC-21, 400 V	Α	63
Rated operation power at AC-23, 400 V Switching power at 400 V Conditioned rated short-circuit current Iq kA 2 Number of poles Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as change-over contact Notor drive optional Notor drive optional No No Voltage release optional No Device construction Complete device in housing Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for front mounting centre Suitable for intermediate mounting Colour control element Type of control element Type of control element No	Rated operation power at AC-3, 400 V	kW	22
Switching power at 400 VkW30Conditioned rated short-circuit current IqkA2Number of poles7Number of auxiliary contacts as normally closed contact0Number of auxiliary contacts as normally open contact0Number of auxiliary contacts as normally open contact0Motor drive optionalNoMotor drive integratedNoVoltage release optionalNoDevice constructionComplete device in housingSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoSuitable for intermediate mountingNoColour control elementBlackType of control elementToggleInterlockableNo	Rated short-time withstand current lcw	kA	1.3
Conditioned rated short-circuit current Iq Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for front mounting centre Suitable for intermediate mounting Colour control element Type of control element Interlockable No Toggle Interlockable	Rated operation power at AC-23, 400 V	kW	30
Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for intermediate mounting Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Interlockable No Interlockable	Switching power at 400 V	kW	30
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for intermediate mounting Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Interlockable No O O O O O O O O O O O O O	Conditioned rated short-circuit current Iq	kA	2
Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for intermediate mounting Suitable for intermediate mounting Colour control element Type of control element Interlockable No O O O No No Suitable Device construction No No Suitable for front mounting the mou	Number of poles		7
Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Complete device in housing Yes No No Suitable for front mounting tentre No Suitable for foot mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Motor drive integrated No Voltage release optional No Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable No	Number of auxiliary contacts as normally open contact		0
Motor drive integrated Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Interlockable No No No No No No No No No N	Number of auxiliary contacts as change-over contact		0
Voltage release optional Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable No Complete device in housing Yes No No No No No Suitable for front mounting centre No No No Toggle Interlockable No	Motor drive optional		No
Device construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Complete device in housing Yes No No No No No No Toggle Interlockable No	Motor drive integrated		No
Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Yes No No No No No No Interlockable No	Voltage release optional		No
Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting No Colour control element Type of control element Interlockable No	Device construction		Complete device in housing
Suitable for front mounting centre Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable No No Toggle No	Suitable for ground mounting		Yes
Suitable for distribution board installation Suitable for intermediate mounting No Colour control element Type of control element Interlockable No	Suitable for front mounting 4-hole		No
Suitable for intermediate mounting Colour control element Type of control element Interlockable No	Suitable for front mounting centre		No
Colour control element Type of control element Interlockable Black Toggle No	Suitable for distribution board installation		No
Type of control element Toggle Interlockable No	Suitable for intermediate mounting		No
Interlockable No	Colour control element		Black
	Type of control element		Toggle
Type of electrical connection of main circuit Screw connection	Interlockable		No
	Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side	Degree of protection (IP), front side		IP65
Degree of protection (NEMA) 12	Degree of protection (NEMA)		12

Approvals

• •	
Product Standards	UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV

CSA File No.	12528
CSA Class No.	3211-07
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes, additional labeling according to UL on the enclosure in combination with "+NA-I4" (105868)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions



Assets (links)

Declaration of CE Conformity

00003073

Instruction Leaflets

IL03801009Z2018_05

Additional product information (links)

L03801009Z (AWA1150-1692) Cam switches: switch-disconnectors			
IL03801009Z (AWA1150-1692) Cam switches: switch-disconnectors	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801009Z2018_05.pdf		
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=130		
Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2		
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4		
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6		
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8		
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8		
Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html		
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf		
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf		