System and maintenance switches (Safety switches)



Catalogue







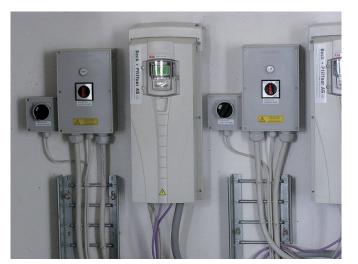
Safety with electric switches	Safety with electric switches	«Fixed product» systems	Direct and indirect shut-down	Features of GIFAS system and safety switches	
	V	- <mark>-0-0-0</mark> -0-0-0-			
Pages 3-6	Page 3	Page 4	Page 5	Page 6	
Main system switches	Main system and maintenance switches direct «immediate»	6-pin maintenance inspection switch and 4-pin selector switch	Indirect maintenance inspection switch		
Maintenance switches					
Pages 7-12	Page 7-9	Page 10	Pages 11 - 12		
Combinations	Maintenance and control switch combi- nations	Special combinations			
Pages 13-14	Page 13	Page 14			
Steel supports	Steel supports/ consoles	Snaping-in emergency shut-off switch	Motor protection switch		
Snapping-in emer- gency shut-off switch Motor protection switch					
Pages 15-16	Page 15	Page 16	Page 16		
Applications	Applications				
	0				
Pages 17-19	Page 17-19				

Basic information

In production and technical operative systems, all measures must be taken to prevent accidents at work in line with art. 82 of the Law on Accident Prevention. This regulation is intended to help prevent accidents at work.

Safety concept

Very different requirements for the safety concept can arise depending on the operating mode of a system. Safety should be guaranteed both in normal operation and special operating modes. In addition to the safety measures against electrical dangers (due to the flow of electrical energy), measures should also be taken against non-electrical risks (e.g. due to movements).



Laws, regulations, standards

Detailed information on this subject are given in the following laws, regulations and standards:

- EG-Machines Directive 2006/42/EG, Appendix I, point 1.6.3;
- EN ISO 12100:2010, Safety of machinery, points 6.3.2.4 and 6.3.5.4;
- EN 60204-1:2018, Safety of machinery Electrical equipment, point 5.4;
- EN ISO 14118:2018, avoiding accidental starts;
- Ordinance on the prevention of accidents and work-related illnesses, SR 832.30, Art. 30;
- SN 411000:2020, Low-voltage installation standard (NIN 2020), points 4.6.4 and 5.3.7.3.2.
- SUVA, the maintenance switch CE93-9.d, 18.5.2020
- EN 62626-1:2014, Low-voltage switchgear and controlgear enclosed equipment
- EN 60947-5-1:2018 Low-voltage switchgear and controlgear, control circuit devices and switching elements
- EN 60947-3:2012 Low-voltage switchgear and controlgear, switches, disconnectors, switch-disconnectors and fuse-combination units

Correct maintenance - Safe shut-down

Better safe, than sorry. The maintenance engineer is certain that he has definitely shut down the machine. Suddenly it starts up, because...? To avoid this, various regulations and recommendations have been released.

GIFAS-ELECTRIC has tackled this problem and has created a basic range of system and maintenance switches to make your work easier and to keep you safe.







Integrating the maintenance switch into an overall system (created from functional units)

The system should be divided into groups of functional units for a specific operating purpose.

A technical system or a complex production machine should be divided up into appropriate functional units at the planning stage, and one maintenance switch should be assigned to each unit. This means that operational and safety requirements for the machine are met (e.g. with parallel production lines the option to shut off individual lines without impairing the overall production as otherwise there would be a risk of the maintenance switch not being used). This means that in the event of a fault or a repair, limited production can be maintained on another parallel path, or parts of the system can continue to be operated.

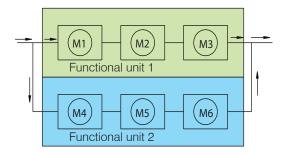
It must be possible to switch off each functional unit using a separate maintenance switch (VUV, Art. 30).

With extensive functional units the maintenance switches must be fitted so that one maintenance switch can be found in the immediate vicinity of every intervention point.

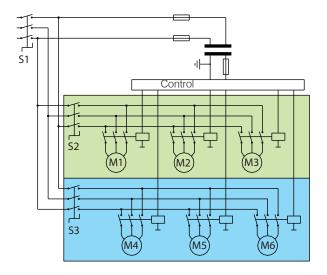
The safety shut-down

Safety shut-down devices must interrupt the flow of power so that no dangerous changes in operating condition can be initiated either through incorrectly entered or faulty control signals.

The safety shut-down device permits persons who need to intervene in the non-electrical danger areas of the system to prevent unintentional changes in the operating status (e.g. initiating a dangerous movement). With simple systems, the system switch can be used to shut down the power supply. However, very often the entire power supply must not be shut down because for example safety devices and control or checking devices must remain in operation, or because with the intervention to be carried out, it must be possible to carry out changes in the operating status intentionally with the special operating control. When designing safety shutdown devices, it is essential to ensure that all power sources are shut off and all stored energy is dissipated that might cause a dangerous change in operating condition. The safety shut-down can carry out the shut-down, depending on the conditions, either directly using a maintenance switch that shuts down all pole lines, or with an indirect shut-down procedure.



S1	Main switch/system switch
S2	Safety switch for functional unit 1
S3	Safety switch for functional unit 2







Direct shut-down (figure 1)

With direct shut-down the supply line to a motor or a system is shut down on all poles directly in the main power circuit. This is achieved with a switch with the two defined positions «0-I», which conforms to the requirements for a maintenance switch (see right).

Indirect shut-down with short-cirquit monitoring (figure 2)

With indirect shut-down the main power source is switched via a contactor, for example. The indirect shut-down consists of a maintenance switch (as a control switch) and a safety contactor. The special requirements both for the safety switch and for the safety contactor must be fulfilled.

Safety shut-down devices must have a clearly detectable shut-down which may only be displayed when the power supply has been shut down reliably. When the indirect shut-down device, the actual safety shut-down is carried out via the safety contactor. A feedback lamp fitted directly onto the safety shut-down device actuator must therefore indicate (by lighting up) that the contacts on the safety contactor are actually open.

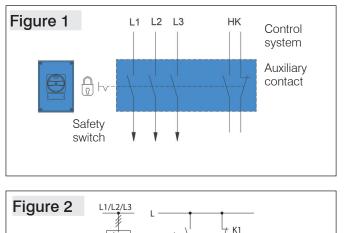
The maintenance switch

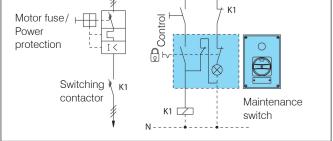
With an issue date of May 2020, the SUVA/CNA/INSAI permits a revised regulation which describes which basic requirements a maintenance switch must fulfil. In Germany the relevant regulations VDE 01-1996 apply.

The most important features

Basic requirements

In technical devices representing a risk in special operating modes (troubleshooting, repairs, maintenance, cleaning, etc.), a maintenance switch must be installed close to each functional unit.





The maintenance switch must meet the following requirements: It must...

- have priority over the switching devices in all operating modes,
- interrupt the supply of all dangerous power sources to the system,
 dissipate the dangerous stored power in the system (e.g. vent pneu-
- matics) or store it safely (EN 1037, point 5.3.1.2),
- be labelled (a diagram must be given, for example, showing which area of the system is rendered inactive by the safety switch),
- have a positive effect and have forced opening contacts,
- normally have two switch positions, e.g. «0» (OFF) and «I» (ON),
- be possible to secure it against unintentional and accidental re-actuation in the OFF positions using multiple (at least 3) personal padlocks,
- be easily accessible without causing danger,
- be positioned so that the part of the system shut down can be viewed,
- always be fitted in immediate proximity to the intervention point (in other words, on site),
- with extensive systems or systems distributed across multiple rooms, be fitted at multiple points and wherever interventions are carried out on the system,
- be designed in black or light grey (exception: if the safety switch is also being used as an emergency stop switch, it must have a red handle and a yellow background),
- if the inspection switch also has the «Emergency-Stop» function, no unexpected start-up may be triggered by it being switched on again. This means that switching off the inspection switch must reset the control commands saved by the control system,
- if the return of the power supply after an interruption or after switching on the inspection switch again can lead to a dangerous situation, an unexpected start-up must be prevented. The controller must therefore be informed about the inspection switch being switched off so that saved movement commands are deleted,
- be designed to prevent re-actuation in the shut-down OFF position.
 This must be observed in particular for the design of the inspection switch with a detachable switch unit.

With the indirect shut-down, the following conditions must be met:

- The actual shut-down must be indicated (e.g. using a white indicator light, identified with «0» or «OFF»).
- This display must be safe (e.g. use contactors with forced contacts).
- When the maintenance switch is shut down, it must not be possible to actuate the indirectly actuated switching elements via manual intervention or another other outside influence.
- Short circuits in the supply line to the switch must be prevented where mechanical or other hazards exist. This can, for example, be achieved with one of the following measures:
 - Protected routing of the switch supply line (e.g. armoured steel tube),
 - Use of separately routed, shielded lines (shield earthed),
 - Use of cables in which each wire is separately shielded and earthed,
 - Use of a short-circuit monitoring system
- The functioning of the inspection switch must have priority over all other functions. Therefore, the inspection switch must act as closely as possible to the element which disconnects the power, i.e. directly on the contactor coil and not via a bus system or a PLC.

Features of GIFAS system and maintenance switches



The GIFAS system and safety combinations are designed for systems where mechanical strength, tightness, chemical resistance, sufficient connection space and visual impression are important. Our complete range of hard rubber casings allow us to manufacture customer requirements for on-site combinations flexibly. The most important features of the GIFAS switch combinations are shown on this page.

Casing specifications

Material

GIFAS hard rubber casing are made from a special butyl rubber mixture, and the cover from polycarbonate. More information on the casings, such as dimensions, assembly holes, etc., can be found in the brochure «Power distribution boxes», index 1.

UV resistance

The light grey or black designs as well as the varnished rubber casings are permanently UV-resistant.

Halogen-free

Completely halogen-free and not contaminated with silicone materials.

Behaviour in fire

Self-extinguishing.

Resistance to chemical materials

The hard rubber is in general resistant to alkalis and acids used in industry.

Resistance to aging

Years of use has not resulted in any problems with aging (becoming hard or brittle, etc.

Casing materials

In addition to the GIFAS hard rubber casings, switch casings in steel plate, stainless steel A2/A4 and in polyester are also available.

Switching and display elements

We assemble the products specified by the customer in the relevant designs, outputs and voltages. Our standard products are Sälzer, Kraus & Naimer switches, and main system switches (0-1) also from the manufacturer ABB. As display elements we use Télémécanique (LED).





Terminals

The fitting is carried out according to the diagram with the required terminals, e.g. series or cage tension spring terminals. Our standard products are Wago, Woertz and Phönix terminals.

Screwed cable glands

High quality screwed cable glands perfect to the finest detail are used and assembled individually according to the diagrams/drawings.

Assembly fitting types

The screw canals in the casing are outside the sealed area to ensure correct seal and safety insulation. The rapid assembly is made even easier using the rust-free fitting brackets or plates to match the casing.

Corrosion protection

The cover screws are always made from stainless steel V4A. Assembly accessories such as brackets are made from zinc-plated, A2 or A4 steel, according to the customer's requirements.

Labelling

With our engraving machine we label the combinations according to your specifications and permanently affix the engraved signs.

Protection category

Seal groove, sealing part and rubber seal guarantee protection category IP65 on the casing. Depending on the product used with the switch and display elements, the protection categories vary from IP54 to IP65.





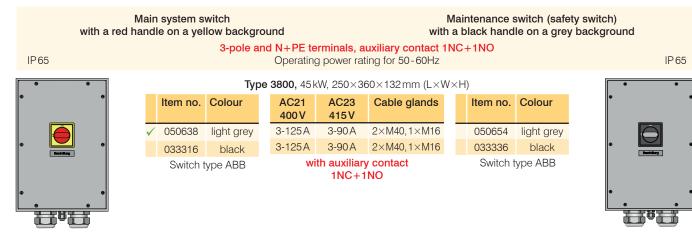


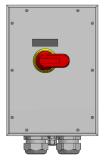
Main system switches and maintenance switches direct «immediate»

with a rec	Main system swi handle on a yello		Ind				switch (safety le on a grey		
IP 65	a nanalo on a yone	3-pole and	N+PE term		kiliary contacts 1 ng for 50-60Hz		lo on a groy	Suokyrounu	IP 65
		Type	e 1212.55	kW 125×1	- 125×76mm (L×W	×H)			
	Item no.	Colour	AC21 400 V	AC23 415 V	Cable glands	Item no	. Colour		
Buchtillung IF en I AAA	050630	light grey	3-16A	3-16A	2×M20,1×M16	✓ 050643	light grey		
	033302	black	3-16A	3-16A	2×M20,1×M16	✓ 033320	black	ШФ	ü
	Switch ty	vpe Sälzer	wi	th auxiliar 1NC+1	•	Switch	type Sälzer		
		Туре	e 1212, 7.5	kW, 125× ⁻	125×76mm (L×W	×H)			
	Item no.	Colour	AC21 400 V	AC23 415 V	Cable glands	Item no	. Colour		
	053988	light grey	3-16A	3-16A	2×M20,1×M16	✓ 054025	light grey	Beachritha 17 00 \$ 4	
	053615	black	3-16A	3-16A	2×M20,1×M16	054024		00	D
	Switch t	ype ABB	WI	th auxiliar 1NC+1	•	Switch	1 type ABB		
		Тур	e 1812, 11	kW, 125 $ imes$ 1	80×90mm (L×W	×H)			
	Item no.	Colour	AC21 400 V	AC23 415 V	Cable glands	Item no	. Colour		
	050632	light grey	3-40 A	3-23 A	2×M20,1×M16	050645	0 0 ,		
	033304	black	3-40 A	3-23 A	2×M20,1×M16	033324		Beschrifter	
	050633	light grey black	3-40 A	3-23 A 3-23 A	2×M25,1×M16 2×M25,1×M16	050648	0 0 ,		
		ype ABB		th auxiliar			n type ABB		
S and elegand				1NC+1	•	×H)		SITAS ELEO	7940 Ø
	Item no.	Colour	AC21 400 V	AC23 415 V	Cable glands	ltem no	. Colour		2
Beechtflung	050634	light grey	3-63 A	3-63 A	2×M32,1×M16	050649	light grey	Beechritta	
	033308	black	3-63 A	3-63 A	2×M32,1×M16	033328			
eria Larra e	Switch t	ype ABB	wi	th auxiliar 1NC+1	•	Switch	n type ABB	8 0/7A0 ELEO	
		Тур	e 2516 , 22	kW, 160×2	250×90mm (L×W	×H)			
e e	Item no.		AC21 400 V	AC23 415 V	Cable glands		. Colour	8 Bestrika	
	050635	light grey	3-63 A 3-63 A	3-63 A 3-63 A	2×M32,1×M16	050651	light grey		
Ø 17 00 \$ AA Ø		black ype ABB		3-63 A th auxiliar	$2 \times M32, 1 \times M16$	033330 Switch	black type ABB	8 17 an 4 /	<u>⊾ _</u> @j
	Ownorr	ype ABB	vi	1NC+1	•	Owned			
		-	0000 451		00 (40 (1))	/ 1 N			
CIFAS ELECTRIC					00×110mm (L×W	,		B BIFAB ELEC	
	Item no.	Colour	AC21 400 V	AC23 415 V	Cable glands	item no	. Colour		
	050637	light grey	3-125 A	3-90 A	2×M40,1×M16	050653	light grey		3
Beechflung	033315	black	3-125A	3-90 A	2×M40, 1×M16	033335	black	Buchtlar	•
	Switch t	ype ABB	wi	th auxiliar 1NC+1	•	Switch	n type ABB		

 \checkmark From stock, offer subject to prior sale



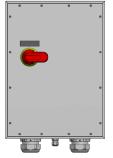




Type 3800, 75 kW, 250×360×132 mm (L×W×H)

Item no.	Colour	AC21 400 V	AC23 415 V	Cable glands	Item no.	Colour
056213	light grey	3-160A	3-160 A	2×M50, 1×M16	058602	light grey
056216	black	3-160A	3-160 A	2×M50, 1×M16	058603	black
Switch t	ype ABB	wi	th auxiliary 1NC+1		Switch t	ype ABB





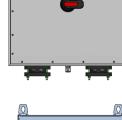
Type 7900, 110kW, 360×500×173mm (L×W×H)

Item no.	Colour	AC21 400 V	AC23 415 V	Cable glands		Item no.	Colour
145006	light grey	3-200 A	3-200 A	2×M63, 1×M16	~	145008	light grey
145010	black	3-200 A	3-200 A	2×M63, 1×M16		145012	black
Switch t	ype ABB	wi	th auxiliary 1NC+1			Switch t	ype ABB

Type 7900 140 kW 500 \times 360 \times 173 mm (L \times W \times H)

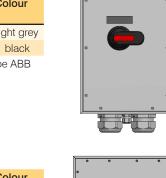
1NC+1NO

				,	60×173mm (L×1		,		
	Item no.	Colour	AC21 400 V	AC23 415 V	Cable glands		Item no.	Colour	
	145019	light grey	3-250 A	3-250 A	2×46-56mm		145022	light grey	
	145021	black			1×M16		145023	black	
	Switch t	ype ABB	3-250 A	3-250 A	2×46-56mm 1×M16	Switch type ABB			
	S	urface mour		th auxiliary 1NC+1) mm	n (I ×W×H)		
	Item no.		AC21 400 V	AC23 415 V	Cable glands		Item no.		
						_			
	251488	metallic grey	3-400 A	3-400 A	2×55-65 mm 1×M16		251489	metallic grey	





From stock, offer subject to prior sale

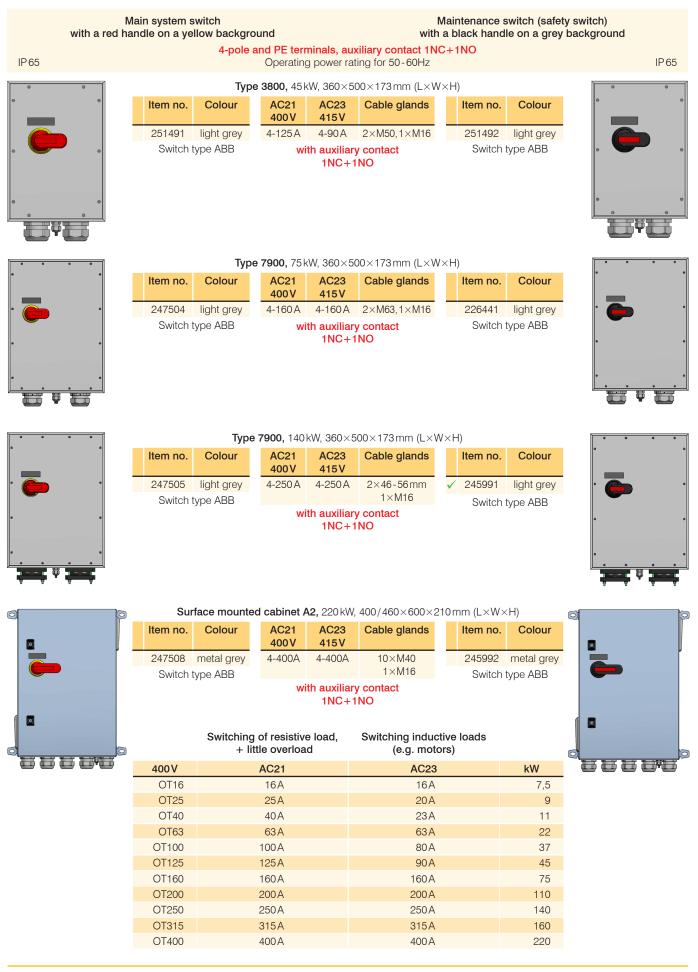




0

C

Main system switches and maintenance switches direct «immediate»



6-pole maintenance inspection switch and 4-pin selector switch



IP 65

Maintenance inspection switch (safety switch) with a black handle on a grey background							W	Selector switch with a black handle on a grey background				ground		
6-pole and N+PE terminals, auxiliary contacts 1NC+1NO							1-0-2 4-pole+N+PE terminals				s			
IP 65				0	perating po	ower rating	for	50-v60Hz,	AC2	23, 4	15V			
	Ту	/pe 1812, Item no.	11 kW, 125 Colour	×180×90 AC21 400 V	mm (L×W: AC23 415 V	×H) Cable glands			8	Т	ype 2516, Item no.	7.5 kW, 160 Colour	×250×90 AC21 400 V	0mm (L× AC23 415V
		145384	light grey	6-40 A	6-23 A	2×M20					145646	light grey	4-16A	4-16A
		145385	black	6-40A	6-23A	1×M16 2×M20		Beechillung			145647	black	4-16A	4-16A

1×M16

8	GIFAS ELECTRIC		٦
	Bestellarg	•	
	··· • • •		

Т	Type 2516, 7.5 kW, 160×250×90 mm (L×W×H)									
		ltem no.	Colour	AC21 400 V	AC23 415 V	Cable glands				
		145646	light grey	4-16A	4-16A	3×M20				
		145647	black	4-16A	4-16A	3×M20				



Type 2516, 11 kW, 160×250×90 mm (L×W×H)										
	ltem no.	Colour	AC21 400 V	AC23 415 V	Cable glands					
	145386	light grey	6-40 A	6-23 A	2×M25 1×M16					
	145387	black	6-40 A	6-23 A	2×M25 1×M16					

with auxiliary contact 1NC+1NO

with auxiliary contact 1NC+1NO



Type 3020, 22 kW, 200×300×110 mm (L×W×H)									
	Item no.	Colour	AC21 400 V	AC23 415 V	Cable glands				
	145453	light grey	6-63 A	6-63 A	2×M40 1×M16				
	145456	black	6-63 A	6-63 A	2×M40 1×M16				
	v	vith auxilia	rv contac	t 1NC + 1NC	0				

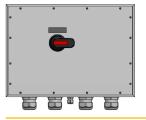


'	Type 3000, 37 kW, 250×300×15211111 (L×W×H)									
	ltem no.	Colour	AC21 400 V	AC23 415 V	Cable glands					
	145461	light grey	6-100A	6-80 A	2×M50 1×M16					
	145462	black	6-100A	6-80 A	2×M50 1×M16					
	with auxiliary contact 1NC+1NO									

Tune 2000 271/W 250×260×122mm (L×W×U)

Type 7800, 45 kW, 500×360×132 mm (L×W×H)

,	,	,		`	,			
	ltem no.	Colour	AC21 400 V	AC23 415 V	Cable glands			
	145463	light grey	6-125 A	6-90 A	4×M40 1×M16			
	145466	black	6-125A	6-90 A	4×M40 1×M16			
	with auxiliary contact 1NC+1NO							

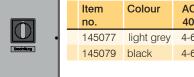


SIFAS ELESTRIC	Ту	pe 251
		ltem no.
	_	14507

Beechrittung

888

Ту	Type 2516, 11 kW, 160×250×90 mm (L×W×H)					
	ltem no.	Colour	AC21 400 V	AC23 415 V	Cable glands	
	145075	light grey	4-40 A	4-23 A	3×M20	
	145076	black	4-40 A	4-23 A	3×M20	

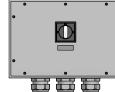


		Item	Colour	AC21 400 V	AC23 415 V	Cable
	_	no. 145077	light grey		4-63 A	glands 3×M25
L		145079	black	4-63 A	4-63 A	3×M25

Type 3020, 22 kW, 200×300×110 mm (L×W×H)

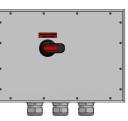
Type 3800. 37 kW. 360×250×132 mm (L×W×H)

ltem no.	Colour	AC21 400 V	AC23 415 V	Cable glands
145080	light grey	4-80 A	4-75 A	3×M40
145082	black	4-80 A	4-75 A	3×M40

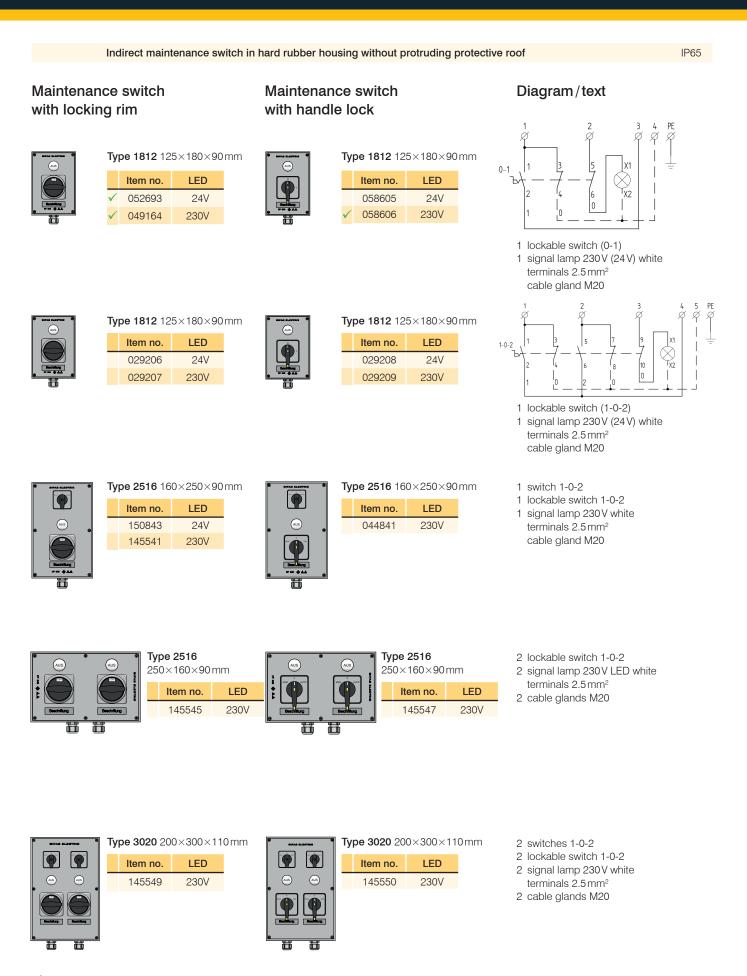


Type 7800, 45 kW, 500×360×132 mm (L×W×H)

	ltem no.	Colour	AC21 400 V	AC23 415 V	Cable glands
	145084	light grey	4-125A	4-90 A	3×M50
	145087	black	4-125A	4-90 A	3×M50



«Direct» maintenance emergency switches



From stock, offer subject to prior sale



Indirect maintenance switch in hard rubber housing with protruding protective roof

Maintenance switch

IP65

Maintenance switch <u>_</u> with lo



locking rim	with handle lock	Technical Infos	
Type 2812 120×268×132mm Item no. LED 049663 24V 049666 230V	Type 2812 120×268×132mm Item no. LED 058610 24V 058611 230V	Indicator lamp: 24 V and 230 V LED modules with extremely high service life to 25° 100'000 hours, IP66 Maintenance switches with locking rim or handle lock, can be locked using three padlocks Switch labels We mark in accordance with your diagrand and have the following marking texts in stock	
Type 2812 120×268×132mm	Type 2812 120×268×132mm Item no. LED 058612 24V 058616 230V	 MANUAL-O-AUTO AUTO-O-MANUAL REMOTE-O-ON REMOTE-O-LOCAL MANUAL-O-REMOTE MANUAL-OFF-REMOTE ON-OFF-REMOTE INSP-OFF-REMOTE Terminals The switch combinations are equipped 	
Type 2812 120×268×132 mm Item no. LED 145623 230V	Type 2812 120×268×132 mm Item no. LED 145624 230 V	with WAGO spring-loaded terminals Housing colour Standard light grey RAL 7035, available in black on request. Wiring We supply the on-site combinations terminals wired or unwired according y diagram. Mounting brackets Material stainless steel V4A	



Item no.	LED	
145626	230V	



Type 7250 160×280×133 mm					
	Item no.	LED			
	145629	230 V			







	Type 7350 200	0×350×13	3mm	0	8	Тур	e 7350 20	0×350×13	3mm
	Item no.	LED			•		Item no.	LED	
L	145630	230V		Beechriftung	Beschriftung		145631	230 V	
9				a 🔾	0 •				
				Beetriturg	Bestehung				

				100 000 110013, 11 00
	058610	24V		
	058611	230V		Maintenance switches with locking rim or handle lock, can be
			locked using three padlocks	
T				Switch labels We mark in accordance with your diagram and have the following marking texts in stock
Ту	rpe 2812 12	0×268×13	2mm	- MANUAL-O-AUTO
	Item no. LED			– AUTO-O-MANUAL
	Item no.	LED		
-	ltem no. 058612	LED 24V		- REMOTE-O-ON - REMOTE-O-LOCAL
				REMOTE-O-ONREMOTE-O-LOCALMANUAL-O-REMOTE
	058612	24V		REMOTE-O-ONREMOTE-O-LOCAL

lable in black on request. ng

supply the on-site combinations on inals wired or unwired according your ram.

inting brackets

IANUAL-O-AUTO UTO-O-MANUAL REMOTE-O-ON

- REMOTE-O-LOCAL
- IANUAL-O-REMOTE
- IANUAL-OFF-REMOTE
- N-OFF-REMOTE
- **NSP-OFF-REMOTE**

ninals

sing colour

Combinations in hard rubber housing with 3-pin maintenance switch, direct switch-off, in combination with a control switch

IP65

Combinations in hard rubber housing with maintenance switch, indirect switch-off, control switch and indicator lamps

IP65



Type 2516	160×250×90mm
-----------	--------------

Item no.	Equipment
103246	 Lockable switch 3P-16A Switch 1-0-2 Cable glands M20 Cable glands M16 Terminals



Type 2812	120×268×132mm
-----------	---------------

Item no.	Equipment
145732	 Lockable switch 0-1 Switch 1-0-2 Signal lamp LED 24V white Signal lamp LED 24V yellow Cable gland M25 Terminals



Type 3020 200×300×110 mm

Item no.	Equipment
103248	 Lockable switch 3P-25A Switch 1-0-2 Cable glands M25 Cable glands M16 Terminals

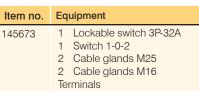


Type 2516 160×250×90 mm

ltem no.	Equipment
132103	 Lockable switch 0-1 Switch 1-0-2 Illuminated push-button green 230 V Illuminated push-button red 230 V Signal lamp LED white 230 V Cable glands M20 Terminals



Type 3020 200×300×110 mm





Type	7250	160×280×133 mm

Item n	Equipment
050669	 Lockable switch 3P-32A+HK 1S Key switch 0-1 KABA Pushbutton green Pushbutton red Cable glands M32 Cable glands M20 Terminals



Ту

/pe 3020 200×300×110 mm	
-------------------------	--

ltem no.	Equipment
103249	 Lockable switch 3P-45A Switch 1-0-2 Cable glands M32 Cable glands M16 Terminals



Type 7250 160×280×133 mm

		Item no.	Equipment
		142844	1 Lockable switch 0-1
			1 Switch 1-0-2
0			1 Switch 0-1
			2 Pushbuttons black
			1 Signal lamp LED white 24V
			1 Signal lamp red 24 V
			1 Cable gland M25
			Terminals
-			



Combinations in hard rubber housing with several maintenance switches, indirect switch-off, control switch and indicator lamps IP65 Combinations in hard rubber housing with several maintenance switches, indirect switch-off, control switch, indicator lamps and socket outlets IP44

Item no

050710

Iter

050

Type 7450 266×370×133 mm



Item no.	Equipment
058640	3 Lockable switch 1-0-23 Signal lamps LED white 230 V

- 3 Switch 1-0-2

Cable glands M25 3

Terminals

Bacabrifung	Beachtforg	
88	888	

Type 7450 266×370×133 mm

о.	Eq	uipment
	2	Lockable switch 1-0-2
	2	Signal lamps LED
		white 230 V
	1	Snapping-in emergency
		shut-off switch
	2	Built-in socket CEE 16A
		400V
	1	Cable gland M16
	4	Cable glands M20

Cable glands M20

Terminals

Type 7750 336×370×162mm



Equipment 4 Lockable switch «1-0-2» 4

Switch 1-0-2 Signal lamp LED 4

white 24 V

4

Cable glands M25 Terminals

Type 7750 336×370×162 mm



n no.	E	quipment
711	2	Lockable switch 0-I
	1	Switch «0-I»
	1	Switch «0-1-2-3»
	2	Signal lamp LED
		white 230 V
	1	Snapping-in emergency
		shut-off switch
	1	Built-in socket Typ 25
	1	Built-in socket CEE 32
		4001/

- 400 V Cable glands M20 3
- Cable gland M25 1 Terminals

Type 7800 500×360×133 mm

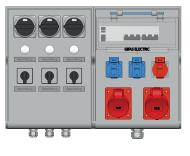


Item no.	Equipment
145274	 9 Lockable switch 1-0-2 9 Signal lamp LED white 230 V 1 Switch 1-0-2 1 snapping-in emergency shut-off switch without cable gland

Item no. Equipment



Type 7400 / 7450 532×370×133 mm



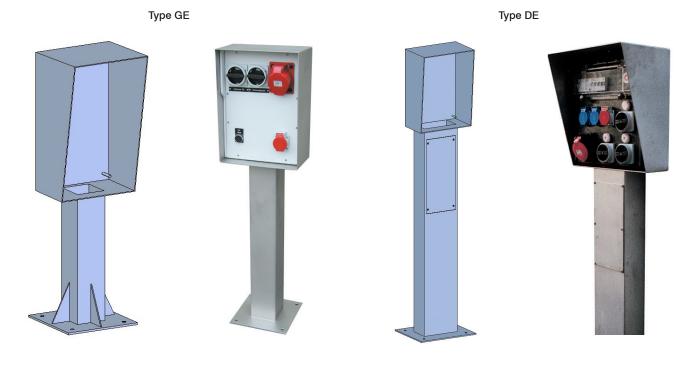
058639	 3 Lockable switch 0-1 3 Signal lamp LED white 230 V 3 Switch 1-0-2 2 Built-in sockets Type 23 1 Built-in sockets Type 25 1 Built-in sockets CEE - 16A 1 Built-in sockets CEE - 32A 1 Switch FI 3N 40A 30mA 1 Circuit breaker 3P 13A 1 Circuit breaker 3P 16A 3 Cable glands M20 1 Cable gland M25



With steel supports or consoles in different designs, the on-site combinations can be installed at the correct location as well as being protected against mechanical damage and the effects of the weather. The steel constructions are powder-coated, zinc-plated or manufactured from rust-free material in V2A or V4A. In collaboration with experienced technicians and metal engineers we develop the right design for you, tailored to fit the various hard rubber casings.

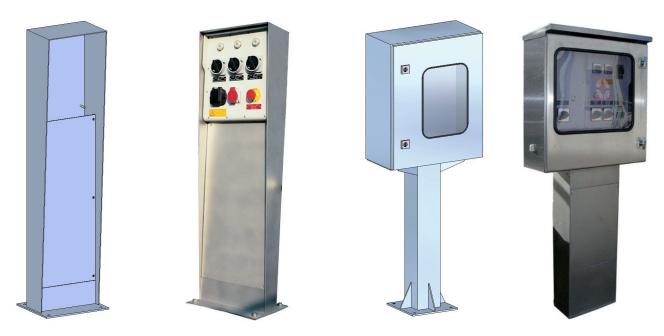
Example specifications:

Steel console type **KA** (GIFAS-ELECTRIC), **V2A glass-blasted**, to fit onsite combination type **7350**, overall height **1'400 mm**.





Type APFE



📞 +41 71 886 44 44 · 🖶 +41 71 886 44 49 · 🗹 info@gifas.ch · ⊕ www.gifas.ch



Emergency-Stop/Emergency-Off button

Emergency-Stop/Emergency-Off button, tamper-proof, with mechanical detent in hard rubber housing IP55

Type 1010 100×100×65mm





In case of an Emergency Off, the system must be deenergised immediately.

In case of an Emergency Stop, a movement must be stopped as quickly as possible (part of system).

Emergency-Stop/Emergency-Off button

Emer- gency- Stop	Emer- gency-Off button				
Item no.	ltem no.	Colour	Release Function	Auxiliary switch	
050729	146593	light grey	pull release	1NC	1NO
030130	146594	black	pull release	1NC	1NO
050731	146595	light grey	twist-release	1NC	1NO
030136	146597	black	twist-release	1NC	1NO
146545	146598	light grey	twist-release		2NO
146547	146599	black	twist-release		2NO
146546	146600	light grey	twist-release	1NC	2NO
146548	146601	black	twist-release	1NC	2NO
146549	146602	light grey	key-release	1NC	1NO
036735	146604	black	key-release	1NC	1NO

The mushroom push-button and Emergency-Stop/Emergency-Off button with a tamper-proof design and with a mechanical detent comply with standard EN/IEC 60204-1.

Button diameter: Emergency-Stop/ Emergency-Off sign: Key-release : Control devices: standard 40 mm red

diameter 60 mm yellow Supplied with 2 keys in metal design



Motor protection switch with thermal-magnetic tripping

Rated output of three phase current motors 50/60Hz according to usage categories AC-3, in solid rubber enclosure IP55

Type 1616 160×160×90 mm



	Item no.	Colour	400V/kW	Setting range of therm. activation	Activation current
	146490	light grey	0.25-0.37	0.63-1.00A	13A
	146491	light grey	0.37-0.55	1.00-1.60A	22A
	146492	light grey	0.75	1.60-2.50A	33A
	146493	light grey	1.10-1.50	2.50-4.00A	51A
	146494	light grey	2.2	4.00-6.30A	78A
	146495	light grey	3.00-4.00	6.00-10.0A	138A
	146496	light grey	5.5	9.00-14.0A	170A
Cable glande 2×M20					

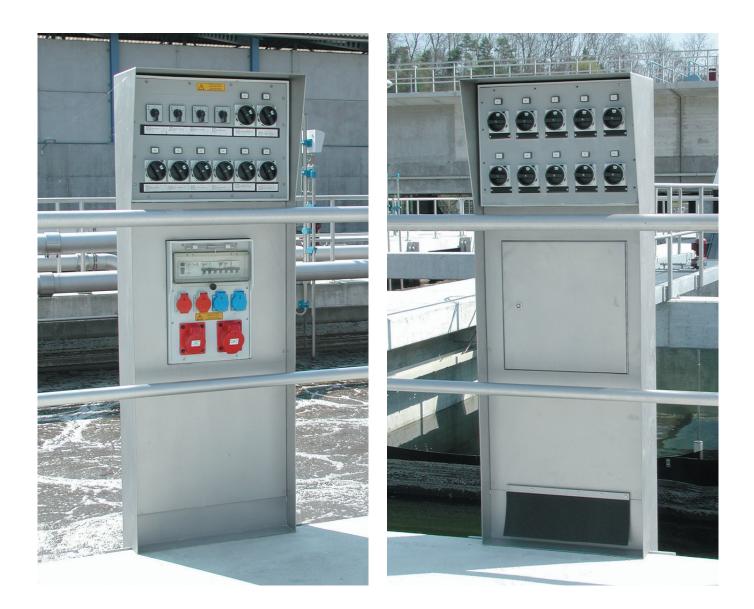
Cable glands 2×M20

Additional modules

Item no.	Description
049710	Auxiliary switch, no delay, side 1NC+1NO
049711	Locking device for padlocks in «O» switch position



Applications





Applications















Applications









News about the assortment and specific solutions can be found on our website:

www.gifas.ch





GIFAS-ELECTRIC GmbH Dietrichstrasse 2 CH-9424 Rheineck

↓ +41 71 886 44 44
 ↓ +41 71 886 44 49
 ☑ info@gifas.ch
 ⊕ www.gifas.ch

