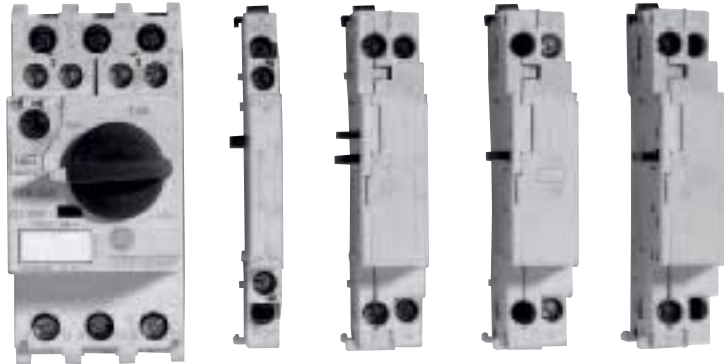
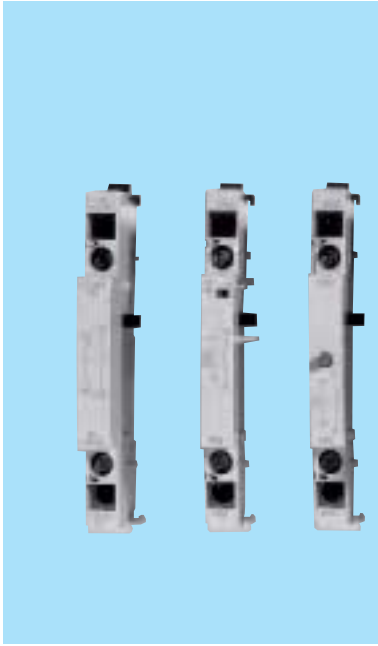


Auxiliaries



Standards/Approvals

IEC 60947-1, 60947-2, 60947-4-1
 DIN VDE 0660T 100/101/102
 UL508/CSA - UL508/cULus
 Shipping approvals:



RINA



Bureau Veritas



Lloyd's Register
 Germanischer Lloyd



cULus

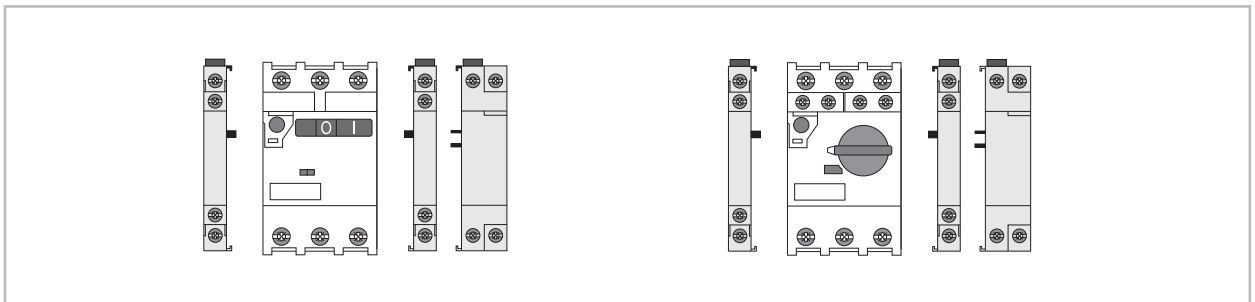


CE

Product range

- Auxiliary contacts (frontal & lateral)
- Alarm contact block
- Auxiliary and alarm contact block
- Short-circuit alarm contact block
- Shunt trip
- Undervoltage release
- Undervoltage release with 2NO early make contacts
- External handle operator
- Terminal protector
- Busbar system

Auxiliaries



Technical performances

- All auxiliaries can be mounted and changed easily, without any tools
- Both frames GPS1 and GPS2 uses same auxiliaries
- All terminals are capable for 2 cables (0.5mm² - 2.5mm²)
- Side auxiliary contacts are rated to A600, P300 duty
- Frontal auxiliary contacts are rated to B300, Q300 duty
- Minimum operational contact 5mA, 17Vdc
- All terminal screwhead are Pozidriv 2 and slotted combination

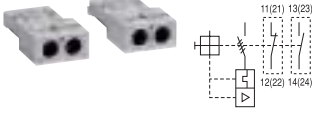
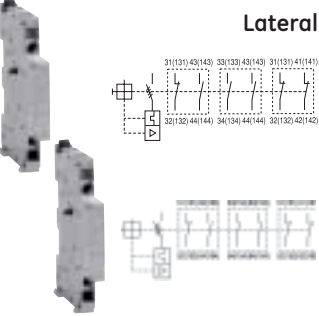
Accessories

- Auxiliaries ● pg. B.16
- Busbar system ● pg. B.19

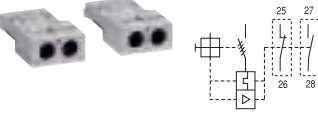
- Technical data ● pg. B.22
- Dimensions ● pg. B.28
- Fuseless starters ● pg. D.2
- Coordination tables ● pg. D.5



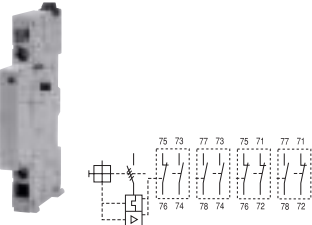
Auxiliary contact blocks

	Description	For use with	Type	Cat. no.	Ref. no.	Pack.
Frontal 	Maximum 2 auxiliary contact blocks per manual motor starter	GPS1... and GPS2...	1 NO	GPAC10FBA	101303	10
		GPS1... and GPS2...	1 NC	GPAC01FBA	101304	10
Lateral 	Two contacts Side mounting on the left	GPS1... and GPS2...	1 NO + 1 NC	GPAC11LLA	101305	10
		GPS1... and GPS2...	2 NO	GPAC20LLA	101306	10
		GPS1... and GPS2...	2 NC	GPAC02LLA	101307	10
	Two contacts Side mounting on the right	GPS1... and GPS2...	1 NO + 1 NC	GPAC11LRA	101308	10
		GPS1... and GPS2...	2 NO	GPAC20LRA	101309	10
		GPS1... and GPS2...	2 NC	GPAC02LRA	101310	10


Alarm contact block

	Description	For use with	Type	Cat. no.	Ref. no.	Pack.
	Frontal mounting on the right	GPS1... and GPS2...	1 NO	GPAL10FRA	101311	10
	Single contact	GPS1... and GPS2...	1 NC	GPAL01FRA	101312	10

Auxiliary / alarm contact block

	Description	For use with	Type	Cat. no.	Ref. no.	Pack.
	Side mounting on the left (front alarm contact block can not be used at the same time)	GPS1... and GPS2...	1 NO(Alarm)+1 NO(Aux)	GPAD1010LLA	101313	10
		GPS1... and GPS2...	1 NO(Alarm)+1 NC(Aux)	GPAD1001LLA	101314	10
		GPS1... and GPS2...	1 NC(Alarm)+1 NO(Aux)	GPAD0110LLA	101315	10
		GPS1... and GPS2...	1 NC(Alarm)+1 NC(Aux)	GPAD0101LLA	101316	10
	Two contacts	GPS1... and GPS2...	1 NC(Alarm)+1 NC(Aux)	GPAD0101LLA	101316	10

Short-circuit alarm contact block

	Description	For use with	Type	Cat. no.	Ref. no.	Pack.
	Side mounting on the left Two contacts NO + NC Mechanical indication marking	GPS1... and GPS2...	1 NO + 1 NC	GPAE11LLA	101317	10

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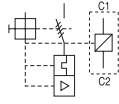
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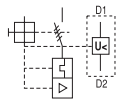
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Shunt trip device



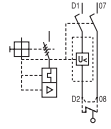
Description	For use with	Coil voltage	Cat. no.	Ref. no.	Pack.
Side mounting on the right Can not be used together with the undervoltage trip device	GPS1... and GPS2...	24V 50/60Hz	GPASLRAA1	101318	5
	GPS1... and GPS2...	48V 60Hz	GPASLRAAF	101319	5
	GPS1... and GPS2...	48V 50Hz / 60V 60Hz	GPASLRAAG	101320	5
	GPS1... and GPS2...	110/127V 50Hz / 120V 60Hz	GPASLRAAJ	101321	5
	GPS1... and GPS2...	208V 60Hz	GPASLRAAM	101322	5
	GPS1... and GPS2...	220/230V 50Hz / 240/260V 60Hz	GPASLRAAN	101323	5
	GPS1... and GPS2...	240V 50Hz / 277V 60Hz	GPASLRAAR	101324	5
	GPS1... and GPS2...	380/400V 50Hz	GPASLRAAU	101325	5
	GPS1... and GPS2...	415/440V 50Hz / 460/480V 60Hz	GPASLRAAW	101326	5
	GPS1... and GPS2...	500V 50Hz / 600V 60Hz	GPASLRAAY	101327	5
	GPS1... and GPS2...	24 to 60Vdc	GPASLRADD	101328	5
	GPS1... and GPS2...	110 to 240Vdc	GPASLRADJ	101329	5
	GPS1... and GPS2...	100V 50/60Hz	GPASLRAA11	101194	5

Undervoltage trip device



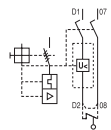
Description	For use with	Coil voltage	Cat. no.	Ref. no.	Pack.
Side mounting on the right Can not be used together with the shunt trip device	GPS1... and GPS2...	24V 50Hz	GPAULRAAD	101330	10
	GPS1... and GPS2...	24V 60Hz	GPAULRAAC	101331	10
	GPS1... and GPS2...	48V 50Hz	GPAULRAAG	101332	10
	GPS1... and GPS2...	48V 60Hz	GPAULRAAF	101333	10
	GPS1... and GPS2...	110/127V 50Hz / 120V 60Hz	GPAULRAAJ	101334	10
	GPS1... and GPS2...	208V 60Hz	GPAULRAAM	101335	10
	GPS1... and GPS2...	220/230V 50Hz / 240/260V 60Hz	GPAULRAAN	101336	10
	GPS1... and GPS2...	240V 50Hz / 277V 60Hz	GPAULRAAR	101337	10
	GPS1... and GPS2...	380/400V 50Hz	GPAULRAAU	101338	10
	GPS1... and GPS2...	415/440V 50Hz / 460/480V 60Hz	GPAULRAAW	101339	10
	GPS1... and GPS2...	500V 50Hz / 600V 60Hz	GPAULRAAY	101340	10
	GPS1... and GPS2...	100V 50/60Hz	GPAULRAA11	102625	10

With 2NO early make auxiliary contacts



Description	For use with	Coil voltage	Cat. no.	Ref. no.	Pack.
Side mounting on the right Can not be used together with the shunt trip device	GPS1*S...	24V 50Hz	GPAU20LTAAD	101341	10
	GPS1*S...	24V 60Hz	GPAU20LTAAC	101342	10
	GPS1*S...	48V 50Hz	GPAU20LTAAG	101343	10
	GPS1*S...	48V 60Hz	GPAU20LTAAF	101344	10
	GPS1*S...	110/127V 50Hz / 120V 60Hz	GPAU20LTAAJ	101345	10
	GPS1*S...	208V 60Hz	GPAU20LTAAM	101346	10
	GPS1*S...	220/230V 50Hz / 240/260V 60Hz	GPAU20LTAAN	101347	10
	GPS1*S...	240V 50Hz / 277V 60Hz	GPAU20LTAAR	101348	10
	GPS1*S...	380/400V 50Hz	GPAU20LTAAU	101349	10
	GPS1*S...	415/440V 50Hz / 460/480V 60Hz	GPAU20LTAAW	101350	10
	GPS1*S...	500V 50Hz / 600V 60Hz	GPAU20LTAAY	101351	10
	GPS1*S...	100V 50/60Hz	GPAU20LTA11	110360	10

With 2NO early make auxiliary contacts



Description	For use with	Coil voltage	Cat. no.	Ref. no.	Pack.
Side mounting on the right Can not be used together with the shunt trip device	GPS1*H and GPS2...	24V 50Hz	GPAU20LCAAD	101352	10
	GPS1*H and GPS2...	24V 60Hz	GPAU20LCAAC	101353	10
	GPS1*H and GPS2...	48V 50Hz	GPAU20LCAAG	101354	10
	GPS1*H and GPS2...	48V 60Hz	GPAU20LCAAF	101355	10
	GPS1*H and GPS2...	110/127V 50Hz / 120V 60Hz	GPAU20LCAAJ	101356	10
	GPS1*H and GPS2...	208V 60Hz	GPAU20LCAAM	101357	10
	GPS1*H and GPS2...	220/230V 50Hz / 240/260V 60Hz	GPAU20LCAAN	101358	10
	GPS1*H and GPS2...	240V 50Hz / 277V 60Hz	GPAU20LCAAR	101359	10
	GPS1*H and GPS2...	380/400V 50Hz	GPAU20LCAAU	101360	10
	GPS1*H and GPS2...	415/440V 50Hz / 460/480V 60Hz	GPAU20LCAAW	101361	10
	GPS1*H and GPS2...	500V 50Hz / 600V 60Hz	GPAU20LCAAY	101362	10
	GPS1*H and GPS2...	100V 50/60Hz	GPAU20LCA11	112185	10

Terminal protector




101509

107182


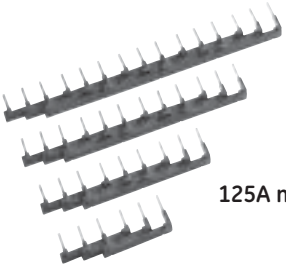


Description	For use with	Cat. no.	Ref. no.	Pack.
Snap-in tabs for screw mounting (set of 10)	GPS1*	GPAKS1A	101509	1
IP20 terminal covers	GPS2*	GPAPT2A	107182	50
DIN rail vibration clamps	GPS1* / GPS2*	GPVDA	101514	2
Panel vibration clamps	GPS1* / GPS2*	GPVPA	101515	2
Increases vibration resistance of GPS1* from 5G to 8G (5-150 Hz) in all directions. One clamp must be mounted on each side which increases total mounting width by 22 mm (0.87"). For vibration resistance of GPS2*, contact customers service.				



External handle operator

	Description	For use with	Type	Cat. no.	Ref. no.	Pack.
	Used for distance mounting on a panel Lockable with 1, 2 or 3 padlocks diameter 4 to 8 mm Two types: standard and emergency applications ON/OFF/TRIPPING position marking Protection degree: IP54 Shaft mounting depths: 139.8 - 289.8 mm for GPA1HAB, GPA1HAR 161 - 311.1 mm for GPA2HAB, GPA2HAR Package parts and quantities: 1 handle unit 1 shaft 1 shaft guide 1 latch (screws) 4 mounting screws	GPS1*H...	Standard (black)	GPA1HAB	101363	5
		GPS1*H ...	Emergency (red/yellow)	GPA1HAR	101364	5
		GPS2...	Standard (black)	GPA2HAB	101502	5
		GPS2 ...	Emergency (red/yellow)	GPA2HAR	101503	5

Busbar system

	Description	For use with	Connection	Cat. no.	Ref. no.	Pack.
 <p>3-phase feed-in terminals</p>	Main feeding terminal Upper connection	GPS1...	Terminal capacity: 25 mm ² Pin	GPB1FA	107186	10
		GPS2...	Terminal capacity: 50 mm ² Pin	GPB2FA	107187	10
		GPS1...	Terminal capacity: 25mm ² Fork	SFVB8	254537	1
 <p>Main busbar 63A max. 125A max.</p>	Modular spacing 45 mm	for 2 GPS1... + frontal auxiliaries	Pin	GPB1B02A	101390	5
		for 3 GPS1... + frontal auxiliaries	Pin	GPB1B03A	101391	5
		for 4 GPS1... + frontal auxiliaries	Pin	GPB1B04A	101392	5
		for 5 GPS1... + frontal auxiliaries	Pin	GPB1B05A	101393	5
	Modular spacing 54 mm	for 2 GPS1... + 9mm lateral aux.	Pin	GPB1B12A	101394	5
		for 3 GPS1... + 9mm lateral aux.	Pin	GPB1B13A	101395	5
		for 4 GPS1... + 9mm lateral aux.	Pin	GPB1B14A	101396	5
		for 5 GPS1... + 9mm lateral aux.	Pin	GPB1B15A	101397	5
	Modular spacing 63 mm	for 2 GPS1... + 18mm lateral aux. or 2 x 9mm lateral auxiliary	Fork	GPB1B22A	101398	10
		for 4 GPS1... + 18mm lateral aux. or 2 x 9mm lateral auxiliary	Fork	GPB1B24A	101399	10
Modular spacing 55 mm	for 2 GPS2... + frontal auxiliaries	Pin	GPB2B02A	101400	1	
	for 3 GPS2... + frontal auxiliaries	Pin	GPB2B03A	101401	1	
	for 4 GPS2... + frontal auxiliaries	Pin	GPB2B04A	101402	1	
Modular spacing 64 mm	for 2 GPS2... + 9mm lateral aux.	Pin	GPB2B12A	101403	1	
	for 3 GPS2... + 9mm lateral aux.	Pin	GPB2B13A	101404	1	
	for 4 GPS2... + 9mm lateral aux.	Pin	GPB2B14A	101405	1	
Modular spacing 73 mm	for 2 GPS2... + 18mm lateral aux. or 2 x 9mm lateral auxiliary	Pin	GPB2B22A	101406	1	
	for 4 GPS2... + 18mm lateral aux. or 2 x 9mm lateral auxiliary	Pin	GPB2B24A	101407	1	
 <p>Busbar cover</p>	Touch guard for non used space	GPS1...	Pin	GPB1GA	101408	10
		GPS1...	Fork	GPB1GAF	101511	1
		GPS2...	Pin	GPB2GA	101409	10
 <p>Terminal cover type E</p>	For compliance UL508E	GPS1...H	-	GPAPT1E	107315	1
		When using a Surion GPS1*BH as a manual self-protected combination motor starter (Type E). Cover enables compliance with NEC Section 430-52, 1" over air creepage and over surface clearance, phase to phase on the line side.				

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Enclosures for manual motor starters




Product range

- Surface and flush mounting plastic enclosures (IP41 and IP55)
- Neutral and ground connection
- Three different types of push-buttons
 - Mushroom with impulse function
 - Mushroom self latching, unlatching by turning
 - Mushroom self latching, unlatching with a key
- Indicator lamps
- Padlocking device for three padlocks
- Conversion kit IP41 to IP55


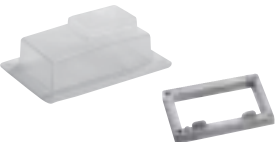

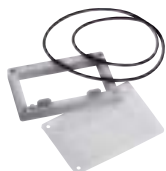


Technical performances

- Used with GPS1*S manual motor starters
- Protection degree IP41 or IP55
- Possibility to mount frontal/lateral auxiliary contact blocks with an undervoltage release (without or with 2NO early make auxiliary contacts) inside the enclosures

Enclosures for only GPS 1*S

	Description	Cat. no.	Ref. no.	Pack.
 Plastic enclosures	Surface mounting IP41	GPES41A	101365	1
	Surface mounting IP55	GPES55A	101366	1
	Flush mounting IP41	GPEF41A	101367	1
	Flush mounting IP55	GPEF55A	101368	1

Mounting accessories for all enclosures

	Description	Cat. no.	Ref. no.	Pack.
 Neutral connection	To be used inside the enclosure	GPENA	101369	1
 Adaptor set	For enclosures used with GPS1*S and undervoltage release with 2 NO auxiliary contacts	GPEUTA	107097	1
 Padlocking device	For three padlocks with max. 8 mm shackle diameter Not to be used with emergency stop handle	GPEPA	101370	1
 Conversion kit IP41 to IP55		GPECA	101371	1
 Mushroom push-button	Mushroom spring return	GPEPMA	101372	1
	Mushroom self latching, turn to release	GPEPLA	101373	1
	Mushroom self latching, release with a key	GPEPKA	101374	1
 Indicator lamps	Green 110/120V	GPELGAJ	101375	1
	Green 220/240V	GPELGAN	101376	1
	Green 380/440V	GPELGAU	101377	1
	Green 480/500V	GPELGAX	101378	1
	Green 600V	GPELGAY	101379	1
	Red 110/120V	GPELRAJ	101380	1
	Red 220/240V	GPELRAN	101381	1
	Red 380/440V	GPELRAU	101382	1
	Red 480/500V	GPELRAX	101383	1
	Red 600V	GPELRAY	101384	1
	Transparent 110/120V	GPELCAJ	101385	1
	Transparent 220/240V	GPELCAN	101386	1
	Transparent 380/440V	GPELCAU	101387	1
	Transparent 480/500V	GPELCAX	101388	1
Transparent 600V	GPELCAV	101389	1	

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