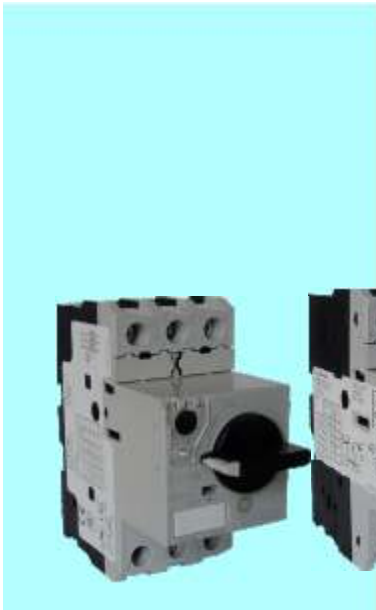


## Manual Motor Starter

Thermal and magnetic protection

GPS1B



### Standards/Approvals

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



RINA



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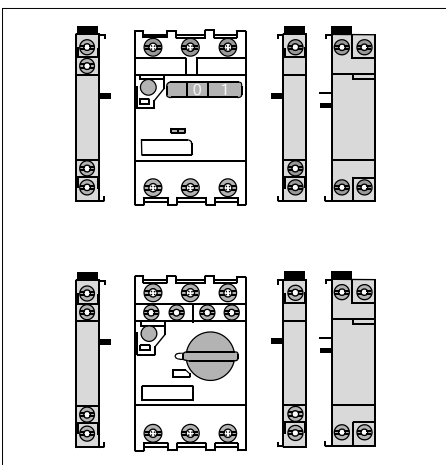
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### Characteristics

- Rocker and rotary handle operator
- Thermal and magnetic protection
- Standard and high breaking capacity  
 $I_{cu} = 100kA > I_{cs} = 100\% I_{cu}$   
 $I_{cu} < 100kA > I_{cs} \text{ min. } 75\% I_{cu}$
- Clear identification of the operation state (ON-OFF-tripped)
- Ambient temperature compensation
- Phase failure protection

### Technical Performance

Rated current $I_n$	(A)	0.1-32
Rated operational current $I_e$	(A)	0.1-32
Rated power at 400Vac	(kW)	0.02-15
Utilisation category		
IEC 60947-2 (circuit breaker)		A
IEC 60947-4-1 (MMS)		AC-3
Tripping class IEC 60947-4-1		10
Magnetic release $I_e \text{ max.}$	(A)	x13
Mechanical/electrical endurance		100,000





## GPS1B - Standard breaking capacity



Rated power 3 phase motors at 400Vac Pn	Rated current In (1)	Thermal Current setting range	Instantaneous short-circuit release	Rated ultimate short-circuit breaking capacity at 400V	Rated service short-circuit breaking capacity at 400V	Cat.No	Code. No
(KW)	(A)	(A)	(A)	(Icu kA)	(Ics kA)		
0.02	0.16	0.1 - 0.16	2.1	100	100	GPS1BSAA	404101211
0.06	0.25	0.16 - 0.25	3.3	100	100	GPS1BSAB	404101212
0.09	0.4	0.25 - 0.4	5.2	100	100	GPS1BSAC	404101213
0.12/0.18	0.63	0.4 - 0.63	8.2	100	100	GPS1BSAD	404101214
0.25	1	0.63 - 1	13	100	100	GPS1BSAE	404101215
0.37/0.55	1.6	1 - 1.6	20.8	100	100	GPS1BSAF	404101216
0.75	2.5	1.6 - 2.5	32.5	100	100	GPS1BSAG	404101217
1.5	4	2.5 - 4	52	100	100	GPS1BSAH	404101218
2.2	6.3	4 - 6.3	81.9	100	100	GPS1BSAJ	404101219
3/4	10	6.3 - 10	130	100	100	GPS1BSAK	404101220
5.5	13	9 - 13	169	50	38	GPS1BSAL	404101221
7.5	16	11 - 16	208	25	19	GPS1BSAM	404101222
10	20	14 - 20	260	25	19	GPS1BSAN	404101223
11	25	19 - 25	325	25	19	GPS1BSAP	404101224
15	32	24 - 32	416	25	19	GPS1BSAR	404101225

(1) Rated current: highest thermal current setting range value.

## GPS1B - High breaking capacity



Rated power 3 phase motors at 400Vac Pn	Rated power In (1)	Thermal Current setting range	Instantaneous short-circuit release	Rated ultimate short-circuit breaking capacity at 400V	Rated service short-circuit breaking capacity at 400V	Cat.No	Code. No
(KW)	(A)	(A)	(A)	(Icu kA)	(Ics kA)		
0.02	0.16	0.1 - 0.16	2.1	100	100	GPS1BHAA	404101234
0.06	0.25	0.16 - 0.25	3.3	100	100	GPS1BHAB	404101235
0.09	0.4	0.25 - 0.4	5.2	100	100	GPS1BHAC	404101236
0.12/0.18	0.63	0.4 - 0.63	8.2	100	100	GPS1BHAD	404101237
0.25	1	0.63 - 1	13	100	100	GPS1BHA E	404101238
0.37/0.55	1.6	1 - 1.6	20.8	100	100	GPS1BHAF	404101239
0.75	2.5	1.6 - 2.5	32.5	100	100	GPS1BHAG	404101240
1.5	4	2.5 - 4	52	100	100	GPS1BHAH	404101241
2.2	6.3	4 - 6.3	81.9	100	100	GPS1BHAJ	404101242
3/4	10	6.3 - 10	130	100	100	GPS1BHAK	404101243
5.5	13	9 - 13	169	50	38	GPS1BHAL	404101244
7.5	16	11 - 16	208	50	38	GPS1BHAM	404101245
10	20	14 - 20	260	50	38	GPS1BHAN	404101246
11	25	19 - 25	325	50	38	GPS1BHAP	404101247
15	32	24 - 32	416	50	38	GPS1BHAR	404101248

(1) Rated current: highest thermal current setting range value.



## Thermal and magnetic protection

GPS2B

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## Standards/Approvals

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



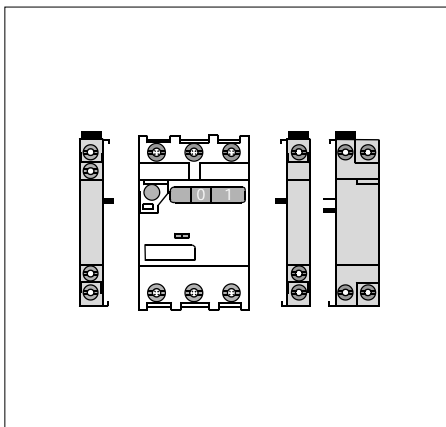
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## Characteristics

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- Rotary handle operator  
Thermal and magnetic protection
- Standard and high breaking capacity  
 $I_{cu} = 100kA > I_{cs} = 100\% I_{cu}$   
 $I_{cu} < 100kA > I_{cs} \text{ min. } 75\% I_{cu}$
- Clear identification of the operation state (ON-OFF-tripped)
- Ambient temperature compensation
- Phase failure protection

## Technical Performance

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Rated current $I_n$	(A)	10-63
Rated operational current $I_e$	(A)	10-63
Rated power at 400Vac	(kW)	4-30
Utilisation category		
IEC 60947-2 (circuit breaker)		A
IEC 60947-4-1 (MMS)		AC-3
Tripping class IEC 60947-4-1		10
Magnetic release $I_e \text{ max.}$	(A)	x13
Mechanical/electrical endurance		50,000/25,000



## GPS2B - Standard breaking capacity



Rated power 3 phase motors at 400Vac Pn	Rated power In (1)	Thermal Current setting range	Instantaneous short-circuit release	Rated ultimate short-circuit breaking capacity at 400V	Rated service short-circuit breaking capacity at 400V	Cat. No	Code. No
(KW)	(A)	(A)	(A)	(Icu kA)	(Ics kA)		
3/4	10	6.3 - 10	130	100	100	GPS2BSAK	404101226
5.5	13	9 - 13	169	50	38	GPS2BSAL	401107119
7.5	16	11 - 16	208	25	19	GPS2BSAM	404101227
10	20	14 - 20	260	25	19	GPS2BSAN	404101228
11	25	19 - 25	325	25	19	GPS2BSAP	404101229
15	32	24 - 32	416	25	19	GPS2BSAR	404101230
18.5	40	28 - 40	520	25	19	GPS2BSAS	404101231
22	50	35 - 45	650	25	19	GPS2BSAT	404101232
30	63	45 - 63	819	25	19	GPS2BSAU	404101233

(1) Rated current: highest thermal current setting range value.

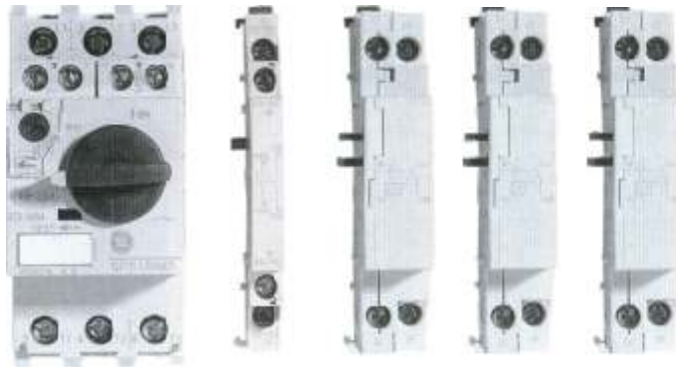
## GPS2B - High breaking capacity



Rated power 3 phase motors at 400Vac Pn	Rated power In (1)	Thermal Current setting range	Instantaneous short-circuit release	Rated ultimate short-circuit breaking capacity at 400V	Rated service short-circuit breaking capacity at 400V	Cat. No	Code. No
(KW)	(A)	(A)	(A)	(Icu kA)	(Ics kA)		
3/4	10	6.3 - 10	130	100	100	GPS2BHAK	404101249
5.5	13	9 - 13	169	100	100	GPS2BHAL	404107120
7.5	16	11 - 16	208	50	38	GPS2BHAM	404101250
10	20	14 - 20	260	50	38	GPS2BHAN	404101251
11	25	19 - 25	325	50	38	GPS2BHAP	404101252
15	32	24 - 32	416	50	38	GPS2BHAR	404101253
18.5	40	28 - 40	520	50	38	GPS2BHAS	404101254
22	50	35 - 50	650	50	38	GPS2BHAT	404101255
30	63	45 - 63	819	50	38	GPS2BHAU	404101256

(1) Rated current: highest thermal current setting range value.

## Auxiliaries



### Standards/Approvals

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



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Lloyd's Register  
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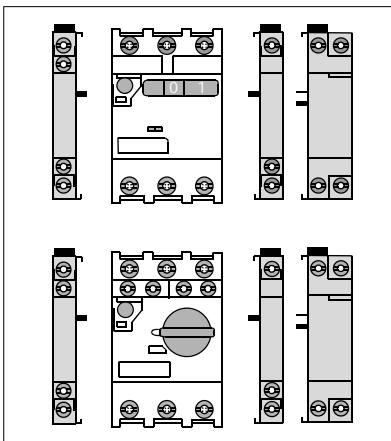
### Product range

- 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

### Technical Performance

- All auxiliaries can be mounted and changed easily, without any tools
- Both frames GPS1 and GPS2 uses same auxiliaries
- 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

### Auxiliaries



### Auxiliary contact blocks



Frontal

Description	For use with:	Type	Cat.No	Code. No
Maximum 2 auxiliary contact block per manual motor starter	GPS1... and GPS2...	1 NO	GPAC10FBA	404101303
	GPS1... and GPS2...	1 NC	GPAC01FBA	404101304



Lateral

Two contacts side mounting on the left	GPS1... and GPS2...	1 NO + 1 NC	GPAC11LLA	404101305
Two contacts Side mounting on the right	GPS1... and GPS2...	1 NO + 1 NC	GPAC11LRA	404101308

### Alarm contact block



Description	For use with:	Type	Cat.No	Code. No
Frontal mounting on the right. Single contact	GPS1... and GPS2...	1 NO	GPAL10FRA	404101311
	GPS1... and GPS2...	1 NC	GPAL01FRA	404101312

### Auxiliary / alarm contact block



Description	For use with:	Type	Cat.No	Code. No
Side mounting on the left (front alarm contact block can not be used at the same time) Two contacts	GPS1... and GPS2...	1 NO(Alarm)+1 NC(Aux.)	GPAD1001LLA	404101314
	GPS1... and GPS2...	1 NC(Alarm)+1 NO(Aux.)	GPAD0110LLA	404101315

### Short-circuit alarm contact block



Description	For use with:	Type	Cat.No	Code. No
Side mounting on the left Two contacts NO + NC Mechanical indication marking	GPS1... and GPS2..	NO + 1 NC	GPAE11LLA	404101317

### Shunt trip device



Description	For use with:	Coil Voltage	Cat.No	Code. No
Side mounting on the right Can not be used together with the undervoltage trip device	GPS1... and GPS2..	220/230V 50Hz	GPASLRAAN	404101323

### Undervoltage trip device



Description	For use with:	Coil Voltage	Cat.No	Code. No
Side mounting on the right Can not be used together with the shunt trip device	GPS1... and GPS2..	220/230V 50Hz	GPAULRAAN	404101336