



RESIDUAL AND RAIN WATERS

DESIGN AND MANUFACTURE OF ELECTRICAL PANELS



# USEFUL INFORMATION

## COMMON APPLICATIONS

Both the emptying of septic tanks and the bailing of garage and basement cavities are based on the same principle of activating pumps according to levels and the number of pumps.

In the case of bailing with only one pump a level switch will activate it, and a second alarm level switch will warn us that the rain is too intense and the water level in the cavity is very high.

When two pumps are used for bailing, a first level switch will activate one of the pumps that will alternate with the other in turn. If one pump is not sufficient the level will continue to increase until reaching a second level switch which will activate both pumps. And finally if the rain volume is higher than the volume that has been evacuated the alarm level switch will be activated.

In the case of residual waters, in which the density makes the use of conventional level switches unfeasible impulse level switches are used. The electrical panel will recognise this impulse and one more pump will be necessary: on stopping it will undo the order or orders (alternating or simultaneous) that were previously active.

When the risk of flooding is critical accessories like a warning level alarm or thermal trip can be added to the panel and contact can be made by SMS to the mobile telephone of the maintenance staff, community president, technical service...

It is also possible that the risk of flooding due to storms coincides with cuts in the electric supply. For this the automatism can be mounted with a NET BACK-UP GENERATOR and even with an automatic switchboard for activating the generator.

The ANGSER range of electrical panels for residual and rain waters includes panels of one and two pumps, of small or high powers, with direct starting, star-delta, progressive or inverter. With respect to the assembly, it can be conventional, on a rail and gutter, or in modular form as is required in certain Spanish autonomous communities. The casing can be plastic, for compact applications or for cases when the electric panel is not in a closed premises and it is necessary to take "anti-vandal" measures in a metal cabinet, even with a double door. The presentation can be simple and economic, with activation switches and pilot lights to indicate function and thermal rise of each pump; or can also be advanced with level indicators and alarm lights.

## AVAILABLE CATALOGUES: ELECTRICAL PANELS

**DIRECT AND STAR DELTA STARTING**

**STARTERS AND INVERTERS**

**INDUSTRIAL AUTOMATISMS**

**SWIMMING POOLS**

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*AngSer Electric can make all kinds of industrial electrical panels depending on their purpose. We have our own engineering and design departments available in order to offer the best personalised solutions. These departments study technical and aesthetic variants from the beginning to the very end of the process.*

*We always choose top brands to offer you the highest quality.*





## DIRECT STARTING PANEL FOR 1 PUMP



The RES1 range, for one pump in direct starting is the simplest; it incorporates a transformer for working the level switches at a safe voltage, and a visual and acoustic alarm for above the level of the level switch. The plastic casing gives it a compact format which makes it ideal for reduced spaces. This panel functions with conventional floating level switches.

The magneto-thermal protection through a circuit breaker makes adjustment and resetting accessible without the need to open the electric panel which therefore increases user safety and furthermore is compulsory in certain Spanish autonomous communities. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, or collection of relay and switch to silence the alarm.

MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	SIZE OF MAGNET.	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES1-01M	6A	9A	MECHANIC	2,5 - 4	SINGLE PHASE 230 VAC	1	0,25	<b>0,33</b>	429 €	389 €
RES1-02M	6A	9A		2,5 - 4			0,37	<b>0,5</b>	429 €	389 €
RES1-03M	10A	9A		4 - 6			0,55	<b>0,75</b>	429 €	389 €
RES1-04M	10A	12A		4 - 6			0,75	<b>1</b>	429 €	389 €
RES1-05M	16A	12A		7 - 10			1,1	<b>1,5</b>	439 €	389 €
RES1-06M	16A	18A		9 - 13			1,5	<b>2</b>	469 €	401 €
RES1-07M	20A	18A		12 - 18			2,2	<b>3</b>	520 €	409 €
RES1-01T	6A	9A	MECHANIC	0,63 - 1	THREE PHASE 400 VAC	1	0,25	<b>0,33</b>	489 €	428 €
RES1-02T	6A	9A		1 - 1,6			0,37	<b>0,5</b>	489 €	428 €
RES1-03T	6A	9A		1,6 - 2,5			0,55	<b>0,75</b>	489 €	428 €
RES1-04T	6A	9A		1,6 - 2,5			0,75	<b>1</b>	489 €	428 €
RES1-05T	6A	9A		2,5 - 4			1,1	<b>1,5</b>	489 €	428 €
RES1-06T	10A	9A		2,5 - 4			1,5	<b>2</b>	489 €	428 €
RES1-07T	10A	9A		5,5 - 8			2,2	<b>3</b>	499 €	428 €
RES1-08T	10A	12A		5,5 - 8			3	<b>4</b>	499 €	428 €
RES1-09T	16A	12A		7 - 10			3,7	<b>5</b>	502 €	428 €
RES1-10T	16A	12A		9 - 13			4	<b>5,5</b>	502 €	428 €
RES1-11T	20A	18A		12 - 18			5,5	<b>7,5</b>	584 €	454 €

## MANUFACTURING COMPONENTS

1 Plastic casing PRYMA 1712 GM	1 Acoustic and light alarm 24 VAC	2 PG Force presses
1 General miniature circuit breaker (MCB)	1 Red pilot light 230 VAC	2 PG Control presses
1 circuit breaker (MCB)	1 Green pilot light 230 VAC	1 24V 4 Contactor relay
1 Thermal circuit breaker	1 Three position selector	1 4 Contact base relay
1 Contact circuit breaker	1 Force terminal	1 Synoptic
1 230 VAC Contactor	1 Control terminal	1 Wiring
1 40 W 230-24 Torodial transformer	1 Earth connection terminal	

## DIRECT STARTING PANEL FOR 2 PUMPS

The RES2 range, for 2 pumps in direct starting is the simplest, even though it still has a transformer for working the pumps at a safe voltage and a visual and acoustic alarm for above the level of the level switch. The plastic casing gives it a compact format which makes it ideal for reduced spaces. This panel functions with conventional floating level switches.

The magneto-thermal protection through a circuit breaker makes adjustment and resetting accessible without the need to open the electric panel which therefore increases user safety and furthermore is compulsory in certain Spanish autonomous communities. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, or collection of relay and switch to silence the alarm.



MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	SIZE OF MAGNET.	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2-01M	1 de 16A	2 de 9A	MECHANIC	2 de 2,5 - 4	SINGLE PHASE 230 VAC	2	0,25	<b>0,33</b>	609 €	544 €
RES2-02M	1 de 16A	2 de 9A		2 de 2,5 - 4			0,37	<b>0,5</b>	609 €	544 €
RES2-03M	1 de 16A	2 de 9A		2 de 4 - 6			0,55	<b>0,75</b>	609 €	544 €
RES2-04M	1 de 16A	2 de 12A		2 de 4 - 6			0,75	<b>1</b>	609 €	544 €
RES2-05M	1 de 20A	2 de 12A		2 de 7 - 10			1,1	<b>1,5</b>	649 €	556 €
RES2-06M	1 de 20A	2 de 18A		2 de 9 - 13			1,5	<b>2</b>	709 €	579 €
RES2-07M	1 de 40A	2 de 18A		2 de 12 - 18			2,2	<b>3</b>	821 €	604 €
RES2-01T	1 de 6A	2 de 9A	MECHANIC	2 de 0,63 - 1	THREE PHASE 400 VAC	2	0,25	<b>0,33</b>	671 €	585 €
RES2-02T	1 de 6A	2 de 9A		2 de 1 - 1,6			0,37	<b>0,5</b>	671 €	585 €
RES2-03T	1 de 10A	2 de 9A		2 de 1,6 - 2,5			0,55	<b>0,75</b>	671 €	585 €
RES2-04T	1 de 10A	2 de 9A		2 de 1,6 - 2,5			0,75	<b>1</b>	671 €	585 €
RES2-05T	1 de 10A	2 de 9A		2 de 2,5 - 4			1,1	<b>1,5</b>	671 €	585 €
RES2-06T	1 de 16A	2 de 9A		2 de 2,5 - 4			1,5	<b>2</b>	674 €	589 €
RES2-07T	1 de 20A	2 de 9A		2 de 5,5 - 8			2,2	<b>3</b>	694 €	589 €
RES2-08T	1 de 20A	2 de 12A		2 de 5,5 - 8			3	<b>4</b>	694 €	589 €
RES2-09T	1 de 25A	2 de 12A		2 de 7 - 10			3,7	<b>5</b>	701 €	592 €
RES2-10T	1 de 40A	2 de 12A		2 de 9 - 13			4	<b>5,5</b>	701 €	592 €
RES2-11T	1 de 50A	2 de 18A		2 de 12 - 18			5,5	<b>7,5</b>	877 €	642 €

## MANUFACTURING COMPONENTS

1 Plastic casing PRYMA 1712 GM	1 230 V 2 B Alternating relay	3 Earth connection terminals
1 General miniature circuit breaker (MCB)	1 11 Pole base relay	3 PG Force presses
1 circuit breaker (MCB)	1 Acoustic and light alarm 24 VAC	3 PG Control presses
2 Thermal circuit breakers	2 Red pilot lights 230 VAC	1 24V 4 Contactor relay
2 Contact circuit breakers	2 Green pilot lights 230 VAC	1 4 Contact base relay
2 230 VAC Contactors	2 Three position selectors	1 Synoptic
1 40 W 230-24 VAC Torodial transformer	1 Force terminal	1 Wiring
	1 Control terminal	

## BAILING PANEL FOR ONE PUMP WITH LEVEL INDICATIONS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT



The RES1N range like the RES1 range is in a plastic format, it is very compact and ideal for reduced spaces. However, it is thought for an impulse level switch and incorporates a level indicator to distinguish when the pump is functioning because of the level switch or if the level has retained until the stop level switch is released.

The magneto-thermal protection through a circuit breaker makes adjustment and re-setting accessible without the need to open the electric panel which therefore increases user safety and furthermore is compulsory in certain Spanish autonomous communities. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, or collection of relay and switch to silence the alarm.

MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	SIZE OF MAGNET.	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES1N-01M	6A	9A	MECHANIC	2,5 - 4	SINGLE PHASE 230 VAC	1	0,25	<b>0,33</b>	456 €	415 €
RES1N-02M	6A	9A		2,5 - 4			0,37	<b>0,5</b>	456 €	415 €
RES1N-03M	10A	9A		4 - 6			0,55	<b>0,75</b>	456 €	415 €
RES1N-04M	10A	12A		4 - 6			0,75	<b>1</b>	456 €	415 €
RES1N-05M	16A	12A		7 - 10			1,1	<b>1,5</b>	466 €	415 €
RES1N-06M	16A	18A		9 - 13			1,5	<b>2</b>	496 €	427 €
RES1N-07M	20A	18A		12 - 18			2,2	<b>3</b>	547 €	439 €
RES1N-01T	6A	9A	MECHANIC	0,63 - 1	THREE PHASE 400 VAC	1	0,25	<b>0,33</b>	519 €	459 €
RES1N-02T	6A	9A		1 - 1,6			0,37	<b>0,5</b>	519 €	459 €
RES1N-03T	6A	9A		1,6 - 2,5			0,55	<b>0,75</b>	519 €	459 €
RES1N-04T	6A	9A		1,6 - 2,5			0,75	<b>1</b>	519 €	459 €
RES1N-05T	6A	9A		2,5 - 4			1,1	<b>1,5</b>	519 €	459 €
RES1N-06T	10A	9A		2,5 - 4			1,5	<b>2</b>	519 €	459 €
RES1N-07T	10A	9A		5,5 - 8			2,2	<b>3</b>	526 €	459 €
RES1N-08T	10A	12A		5,5 - 8			3	<b>4</b>	526 €	459 €
RES1N-09T	16A	12A		7 - 10			3,7	<b>5</b>	529 €	459 €
RES1N-10T	16A	12A		9 - 13			4	<b>5,5</b>	529 €	459 €
RES1N-11T	20A	18A		12 - 18			5,5	<b>7,5</b>	609 €	479 €

### MANUFACTURING COMPONENTS

1 Plastic casing PRYMA 1712 GM	1 Acoustic and light alarm 24 VAC	2 PG Force presses
1 General miniature circuit breaker (MCB)	2 Red pilot lights 230 VAC	2 PG Control presses
1 circuit breaker (MCB)	3 Green pilot lights 230 VAC	2 24V 4 Contactor relays
1 Thermal circuit breaker	1 Three position selector	2 4 Contact base relays
1 Contact circuit breaker	1 Force terminal	1 Synoptic
1 230 VAC Contactor	1 Control terminal	1 Wiring
1 40 W 230-24 Torodial transformer	2 Earth connection terminals	



## BAILING PANEL FOR TWO PUMPS WITH LEVEL INDICATIONS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT

The RES2N range like the RES2 range is in a plastic format, it is very compact and ideal for reduced spaces. However, it is thought for an impulse level switch and incorporates a level indicator to distinguish when the pump is functioning because of the level switch or if the level has retained until the stop level switch is released.

The magneto-thermal protection through a circuit breaker makes adjustment and resetting accessible without the need to open the electric panel which therefore increases user safety and furthermore is compulsory in certain Spanish autonomous communities. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations. Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, or collection of relay and switch to silence the alarm.



MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	SIZE OF MAGNET.	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2N-01M	1 de 16A	2 de 9A	MECHANIC	2 de 2,5 - 4	SINGLE PHASE 230 VAC	2	0,25	<b>0,33</b>	652 €	586 €
RES2N-02M	1 de 16A	2 de 9A		2 de 2,5 - 4			0,37	<b>0,5</b>	652 €	586 €
RES2N-03M	1 de 16A	2 de 9A		2 de 4 - 6			0,55	<b>0,75</b>	652 €	587 €
RES2N-04M	1 de 16A	2 de 12A		2 de 4 - 6			0,75	<b>1</b>	652 €	587 €
RES2N-05M	1 de 20A	2 de 12A		2 de 7 - 10			1,1	<b>1,5</b>	689 €	599 €
RES2N-06M	1 de 20A	2 de 18A		2 de 9 - 13			1,5	<b>2</b>	751 €	622 €
RES2N-07M	1 de 40A	2 de 18A		2 de 12 - 18			2,2	<b>3</b>	861 €	646 €
RES2N-01T	1 de 6A	2 de 9A	MECHANIC	2 de 0,63 - 1	THREE PHASE 400 VAC	2	0,25	<b>0,33</b>	713 €	629 €
RES2N-02T	1 de 6A	2 de 9A		2 de 1 - 1,6			0,37	<b>0,5</b>	713 €	629 €
RES2N-03T	1 de 10A	2 de 9A		2 de 1,6 - 2,5			0,55	<b>0,75</b>	713 €	629 €
RES2N-04T	1 de 10A	2 de 9A		2 de 1,6 - 2,5			0,75	<b>1</b>	713 €	629 €
RES2N-05T	1 de 10A	2 de 9A		2 de 2,5 - 4			1,1	<b>1,5</b>	713 €	630 €
RES2N-06T	1 de 16A	2 de 9A		2 de 2,5 - 4			1,5	<b>2</b>	716 €	630 €
RES2N-07T	1 de 20A	2 de 9A		2 de 5,5 - 8			2,2	<b>3</b>	736 €	630 €
RES2N-08T	1 de 20A	2 de 12A		2 de 5,5 - 8			3	<b>4</b>	736 €	630 €
RES2N-09T	1 de 25A	2 de 12A		2 de 7 - 10			3,7	<b>5</b>	745 €	635 €
RES2N-10T	1 de 40A	2 de 12A		2 de 9 - 13			4	<b>5,5</b>	745 €	635 €
RES2N-11T	1 de 50A	2 de 18A		2 de 12 - 18			5,5	<b>7,5</b>	920 €	685 €

### MANUFACTURING COMPONENTS

1 Plastic casing PRYMA 1712 GM	230 V 2 B Alternating relay	1 Control terminal
1 General miniature circuit breaker (MCB)	1 11 Pole base relay	3 Earth connection terminals
1 circuit breaker (MCB)	1 Acoustic and light alarm 24 VAC	3 PG Force presses
2 Thermal circuit breakers	3 Red pilot lights 230 VAC	3 PG Control presses
2 Contact circuit breakers	5 Green pilot lights 230 VAC	4 24V 4 Contactor relays
2 230 VAC Contactors	2 Three position selectors	4 4 Contact base relays
1 40 W 230-24 VAC Torodial transformer	1 Force terminal	1 Synoptic
	1 Control terminal	1 Wiring



## BAILING PANEL FOR ONE PUMP WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS



The RES1NX range has the same characteristics as the RES1N range on previous pages, with an added display and alarm for minimum and maximum levels. A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker makes adjustment and resetting accessible without the need to open the electric panel which therefore increases user safety and furthermore is compulsory in certain Spanish autonomous communities. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise...

MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	SIZE OF MAGNET.	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES1NX-01M	6A	9A	MECHANIC	2,5 - 4	SINGLE PHASE 230 VAC	1	0,25	<b>0,33</b>	469 €	429 €
RES1NX-02M	6A	9A		2,5 - 4			0,37	<b>0,5</b>	469 €	429 €
RES1NX-03M	10A	9A		4 - 6			0,55	<b>0,75</b>	469 €	429 €
RES1NX-04M	10A	12A		4 - 6			0,75	<b>1</b>	469 €	429 €
RES1NX-05M	16A	12A		7 - 10			1,1	<b>1,5</b>	479 €	429 €
RES1NX-06M	16A	18A		9 - 13			1,5	<b>2</b>	509 €	439 €
RES1NX-07M	20A	18A		12 - 18			2,2	<b>3</b>	561 €	449 €
RES1NX-01T	6A	9A	MECHANIC	0,63 - 1	THREE PHASE 400 VAC	1	0,25	<b>0,33</b>	529 €	470 €
RES1NX-02T	6A	9A		1 - 1,6			0,37	<b>0,5</b>	529 €	470 €
RES1NX-03T	6A	9A		1,6 - 2,5			0,55	<b>0,75</b>	529 €	470 €
RES1NX-04T	6A	9A		1,6 - 2,5			0,75	<b>1</b>	529 €	470 €
RES1NX-05T	6A	9A		2,5 - 4			1,1	<b>1,5</b>	529 €	470 €
RES1NX-06T	10A	9A		2,5 - 4			1,5	<b>2</b>	529 €	470 €
RES1NX-07T	10A	9A		5,5 - 8			2,2	<b>3</b>	539 €	470 €
RES1NX-08T	10A	12A		5,5 - 8			3	<b>4</b>	539 €	470 €
RES1NX-09T	16A	12A		7 - 10			3,7	<b>5</b>	539 €	470 €
RES1NX-10T	16A	12A		9 - 13			4	<b>5,5</b>	542 €	470 €
RES1NX-11T	20A	18A		12 - 18			5,5	<b>7,5</b>	624 €	492 €

### MANUFACTURING COMPONENTS

1 Plastic casing PRYMA 1712 GM	1 Alarm silencing button	2 Earth connection terminals
1 Circuit breaker (MCB)	1 Acoustic and light alarm 24 VAC	2 PG Force presses
1 Circuit breaker (MCB)	3 Red pilot lights 230 VAC	2 PG Control presses
1 Thermal circuit breaker	3 Green pilot lights 230 VAC	4 24V 4 Contactor relays
1 Contact circuit breaker	1 Three position selector	4 4 Contact base relays
1 230 VAC Contactor	1 Force terminal	1 Synoptic
1 40 W 230-24 Torodial transformer	1 Control terminal	1 Wiring

## BAILING PANEL FOR TWO PUMPS WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS

The RES2NX range has the same characteristics as the RES2N range on previous pages, with an added display and alarm for minimum and maximum levels. A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker makes adjustment and re-setting accessible without the need to open the electric panel which therefore increases user safety and furthermore is compulsory in certain Spanish autonomous communities. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise..



MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	SIZE OF MAGNET.	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2NX-01M	1 de 16A	2 de 9A	MECÁNICO	2 de 2,5 - 4	MONOFÁSICO 230 VAC	2	0,25	<b>0,33</b>	671 €	604 €
RES2NX-02M	1 de 16A	2 de 9A		2 de 2,5 - 4			0,37	<b>0,5</b>	671 €	604 €
RES2NX-03M	1 de 16A	2 de 9A		2 de 4 - 6			0,55	<b>0,75</b>	671 €	604 €
RES2NX-04M	1 de 16A	2 de 12A		2 de 4 - 6			0,75	<b>1</b>	671 €	604 €
RES2NX-05M	1 de 20A	2 de 12A		2 de 7 - 10			1,1	<b>1,5</b>	709 €	619 €
RES2NX-06M	1 de 20A	2 de 18A		2 de 9 - 13			1,5	<b>2</b>	769 €	639 €
RES2NX-07M	1 de 40A	2 de 18A		2 de 12 - 18			2,2	<b>3</b>	879 €	665 €
RES2NX-01T	1 de 6A	2 de 9A	MECÁNICO	2 de 0,63 - 1	TRIFÁSICO 400 VAC	2	0,25	<b>0,33</b>	732 €	649 €
RES2NX-02T	1 de 6A	2 de 9A		2 de 1 - 1,6			0,37	<b>0,5</b>	732 €	649 €
RES2NX-03T	1 de 10A	2 de 9A		2 de 1,6 - 2,5			0,55	<b>0,75</b>	732 €	649 €
RES2NX-04T	1 de 10A	2 de 9A		2 de 1,6 - 2,5			0,75	<b>1</b>	732 €	649 €
RES2NX-05T	1 de 10A	2 de 9A		2 de 2,5 - 4			1,1	<b>1,5</b>	732 €	649 €
RES2NX-06T	1 de 16A	2 de 9A		2 de 2,5 - 4			1,5	<b>2</b>	735 €	649 €
RES2NX-07T	1 de 20A	2 de 9A		2 de 5,5 - 8			2,2	<b>3</b>	754 €	649 €
RES2NX-08T	1 de 20A	2 de 12A		2 de 5,5 - 8			3	<b>4</b>	754 €	649 €
RES2NX-09T	1 de 25A	2 de 12A		2 de 7 - 10			3,7	<b>5</b>	761 €	654 €
RES2NX-10T	1 de 40A	2 de 12A		2 de 9 - 13			4	<b>5,5</b>	764 €	654 €
RES2NX-11T	1 de 50A	2 de 18A		2 de 12 - 18			5,5	<b>7,5</b>	939 €	704 €

### MANUFACTURING COMPONENTS

1 Plastic casing PRYMA 1712 GM	1 230 V 2 B Alternating relay	1 Control terminal
1 Circuit breaker (MCB)	1 11 Pole base relay	3 Earth connection terminals
1 Circuit breaker (MCB)	1 Alarm silencing button	3 PG Force presses
2 Thermal circuit breakers	1 Acoustic and light alarm 24 VAC	3 PG Control presses
2 Contact circuit breakers	4 Red pilot lights 230 VAC	6 24V 4 Contactor relays
2 230 VAC Contactors	5 Green pilot lights 230 VAC	6 4 Contact base relays
1 40 W 230-24 Torodial transformer	2 Three position selectors	1 Synoptic
	1 Force terminal	1 Wiring

## DIRECT STARTING PANEL FOR 1 PUMP WITH METAL CABINET



The RES1M range, for one pump in direct starting is the simplest; it still incorporates a transformer for working the level switches at a safe voltage, and a visual and acoustic alarm for above the level of the level switch. It is different from the RES1 range because of its metal casing. Perhaps it is not as compact as its plastic counterpart, but the RES1M is perfect for occasions when robustness takes precedence over space. It also increases the range of powers. This panel functions with conventional floating level switches.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, or collection of relay and switch to silence the alarm, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.

MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES1M-01M	9A	MECHANIC	2,5 - 4	SINGLE PHASE 230 VAC	1	0,25	0,33	449 €	409 €
RES1M-02M	9A		2,5 - 4			0,37	0,5	449 €	409 €
RES1M-03M	9A		4 - 6			0,55	0,75	449 €	409 €
RES1M-04M	12A		4 - 6			0,75	1	449 €	409 €
RES1M-05M	12A		7 - 10			1,1	1,5	461 €	409 €
RES1M-06M	18A		9 - 13			1,5	2	489 €	421 €
RES1M-07M	18A		12 - 18			2,2	3	542 €	431 €
RES1M-01T	9A	MECHANIC	0,63 - 1	THREE PHASE 400 VAC	1	0,25	0,33	511 €	449 €
RES1M-02T	9A		1 - 1,6			0,37	0,5	511 €	449 €
RES1M-03T	9A		1,6 - 2,5			0,55	0,75	511 €	449 €
RES1M-04T	9A		1,6 - 2,5			0,75	1	511 €	449 €
RES1M-05T	9A		2,5 - 4			1,1	1,5	511 €	449 €
RES1M-06T	9A		2,5 - 4			1,5	2	511 €	451 €
RES1M-07T	9A		5,5 - 8			2,2	3	521 €	451 €
RES1M-08T	12A		5,5 - 8			3	4	522 €	451 €
RES1M-09T	12A		7 - 10			3,7	5	522 €	451 €
RES1M-10T	12A		9 - 13			4	5,5	523 €	451 €
RES1M-11T	18A		12 - 18			5,5	7,5	605 €	474 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 Acoustic and light alarm 24 VAC	2 Earth connection terminals
1 General switch	1 Red pilot light 230 VAC	2 PG Force presses
1 circuit breaker (MCB)	1 Green pilot light 230 VAC	2 PG Control presses
1 Thermal circuit breaker	1 Three position selector	1 24V 4 Contactor relay
1 Contact circuit breaker	1 Force terminal	1 4 Contact base relay
1 230 VAC Contactor	1 Control terminal	1 Synoptic
1 40 W 230-24 Torodial transformer	1 Extended command	1 Wiring

## DIRECT STARTING PANEL FOR 2 PUMPS WITH METAL CABINET

The RES2M range, for two pumps in direct starting is the simplest; it still incorporates a transformer for working the level switches at a safe voltage, and a visual and acoustic alarm for above the level of the level switch. It is different from the RES2 range because of its metal casing. Perhaps it is not as compact as its plastic counterpart, but the RES2M is perfect for occasions when robustness takes precedence over space. It also increases the range of powers. This panel functions with conventional floating level switches.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, or collection of relay and switch to silence the alarm, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.



MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2M-01M	2 de 9A	MECHANIC	2 de 2,5 - 4	SINGLE PHASE 230 VAC	2	0,25	0,33	631 €	565 €
RES2M-02M	2 de 9A		2 de 2,5 - 4			0,37	0,5	631 €	565 €
RES2M-03M	2 de 9A		2 de 4 - 6			0,55	0,75	631 €	565 €
RES2M-04M	2 de 12A		2 de 4 - 6			0,75	1	631 €	565 €
RES2M-05M	2 de 12A		2 de 7 - 10			1,1	1,5	669 €	579 €
RES2M-06M	2 de 18A		2 de 9 - 13			1,5	2	729 €	599 €
RES2M-07M	2 de 18A		2 de 12 - 18			2,2	3	839 €	625 €
RES2M-01T	2 de 9A		MECHANIC			2 de 0,63 - 1	THREE PHASE 400 VAC	2	0,25
RES2M-02T	2 de 9A	2 de 1 - 1,6		0,37	0,5	692 €			606 €
RES2M-03T	2 de 9A	2 de 1,6 - 2,5		0,55	0,75	692 €			606 €
RES2M-04T	2 de 9A	2 de 1,6 - 2,5		0,75	1	692 €			606 €
RES2M-05T	2 de 9A	2 de 2,5 - 4		1,1	1,5	692 €			606 €
RES2M-06T	2 de 9A	2 de 2,5 - 4		1,5	2	695 €			609 €
RES2M-07T	2 de 9A	2 de 5,5 - 8		2,2	3	715 €			609 €
RES2M-08T	2 de 12A	2 de 5,5 - 8		3	4	715 €			609 €
RES2M-09T	2 de 12A	2 de 7 - 10		3,7	5	721 €			614 €
RES2M-10T	2 de 12A	2 de 9 - 13		4	5,5	724 €			614 €
RES2M-11T	2 de 18A	2 de 12 - 18		5,5	7,5	899 €			663 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 230 V 2 B Alternating relay	1 Control terminal
1 General switch	1 11 Pole base relay	3 Earth connection terminals
1 circuit breaker (MCB)	1 Acoustic and light alarm 24 VAC	3 PG Force presses
2 Thermal circuit breakers	2 Red pilot lights 230 VAC	3 PG Control presses
2 Contact circuit breakers	2 Green pilot lights 230 VAC	1 24V 4 Contactor relay
2 230 VAC Contactors	2 Three position selectors	1 4 Contact base relay
1 40 W 230-24 Torodial transformer	1 Force terminal	1 Synoptic
		1 Wiring

### BAILING PANEL IN METAL CABINET FOR ONE PUMP WITH LEVEL INDICATIONS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT



The RES1MN range like the RES1M range is in a metal cabinet, but thought for an impulse level switch and incorporating a level indicator to distinguish when the pump is functioning because of the level switch or if the level has retained until the stop level switch is released.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, or collection of relay and switch to silence the alarm, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.

MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LS
RES1MN-01M	9A	MECHANIC	2,5 - 4	SINGLE PHASE 230 VAC	1	0,25	<b>0,33</b>	477 €	436 €
RES1MN-02M	9A		2,5 - 4			0,37	<b>0,5</b>	477 €	436 €
RES1MN-03M	9A		4 - 6			0,55	<b>0,75</b>	477 €	437 €
RES1MN-04M	12A		4 - 6			0,75	<b>1</b>	477 €	437 €
RES1MN-05M	12A		7 - 10			1,1	<b>1,5</b>	505 €	449 €
RES1MN-06M	18A		9 - 13			1,5	<b>2</b>	535 €	460 €
RES1MN-07M	18A		12 - 18			2,2	<b>3</b>	596 €	476 €
RES1MN-01T	9A	MECHANIC	0,63 - 1	THREE PHASE 400 VAC	1	0,25	<b>0,33</b>	538 €	479 €
RES1MN-02T	9A		1 - 1,6			0,37	<b>0,5</b>	538 €	479 €
RES1MN-03T	9A		1,6 - 2,5			0,55	<b>0,75</b>	538 €	479 €
RES1MN-04T	9A		1,6 - 2,5			0,75	<b>1</b>	538 €	479 €
RES1MN-05T	9A		2,5 - 4			1,1	<b>1,5</b>	538 €	479 €
RES1MN-06T	9A		2,5 - 4			1,5	<b>2</b>	541 €	479 €
RES1MN-07T	9A		5,5 - 8			2,2	<b>3</b>	551 €	479 €
RES1MN-08T	12A		5,5 - 8			3	<b>4</b>	551 €	479 €
RES1MN-09T	12A		7 - 10			3,7	<b>5</b>	559 €	485 €
RES1MN-10T	12A		9 - 13			4	<b>5,5</b>	559 €	485 €
RES1MN-11T	18A		12 - 18			5,5	<b>7,5</b>	654 €	514 €

#### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 Acoustic and light alarm 24 VAC	2 Earth connection terminals
1 General switch	2 Red pilot lights 230 VAC	2 PG Force presses
1 Circuit breaker (MCB)	3 Green pilot lights 230 VAC	2 PG Control presses
1 Thermal circuit breaker	1 Three position selector	2 24V 4 Contactor relays
1 Contact circuit breaker	1 Force terminal	2 4 Contact base relays
1 230 VAC Contactor	1 Control terminal	1 Synoptic
1 40 W 230-24 Torodial transformer	1 Extended command	1 Wiring

## BAILING PANEL IN METAL CABINET FOR TWO PUMPS WITH LEVEL INDICATIONS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT

The RES2MN range like the RES2M range is in a metal cabinet, but thought for two impulse level switches and incorporating level indicators (alternating, simultaneous and alarm) that will be retained until the stop level switch is released.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, or collection of relay and switch to silence the alarm, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.



MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2MN-01M	2 de 9A	MECHANIC	2 de 2,5 - 4	SINGLE PHASE 230 VAC	2	0,25	<b>0,33</b>	679 €	614 €
RES2MN-02M	2 de 9A		2 de 2,5 - 4			0,37	<b>0,5</b>	679 €	614 €
RES2MN-03M	2 de 9A		2 de 4 - 6			0,55	<b>0,75</b>	679 €	614 €
RES2MN-04M	2 de 12A		2 de 4 - 6			0,75	<b>1</b>	679 €	614 €
RES2MN-05M	2 de 12A		2 de 7 - 10			1,1	<b>1,5</b>	716 €	624 €
RES2MN-06M	2 de 18A		2 de 9 - 13			1,5	<b>2</b>	776 €	649 €
RES2MN-07M	2 de 18A		2 de 12 - 18			2,2	<b>3</b>	889 €	674 €
RES2MN-01T	2 de 9A	MECHANIC	2 de 0,63 - 1	THREE PHASE 400 VAC	2	0,25	<b>0,33</b>	739 €	654 €
RES2MN-02T	2 de 9A		2 de 1 - 1,6			0,37	<b>0,5</b>	739 €	654 €
RES2MN-03T	2 de 9A		2 de 1,6 - 2,5			0,55	<b>0,75</b>	739 €	654 €
RES2MN-04T	2 de 9A		2 de 1,6 - 2,5			0,75	<b>1</b>	739 €	654 €
RES2MN-05T	2 de 9A		2 de 2,5 - 4			1,1	<b>1,5</b>	739 €	654 €
RES2MN-06T	2 de 9A		2 de 2,5 - 4			1,5	<b>2</b>	747 €	656 €
RES2MN-07T	2 de 9A		2 de 5,5 - 8			2,2	<b>3</b>	762 €	656 €
RES2MN-08T	2 de 12A		2 de 5,5 - 8			3	<b>4</b>	762 €	656 €
RES2MN-09T	2 de 12A		2 de 7 - 10			3,7	<b>5</b>	769 €	661 €
RES2MN-10T	2 de 12A		2 de 9 - 13			4	<b>5,5</b>	771 €	661 €
RES2MN-11T	2 de 18A		2 de 12 - 18			5,5	<b>7,5</b>	946 €	711 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 Alternating relay 230 V 2 B	1 Extended command
1 General switch	1 11 Pole base relay	3 Earth connection terminals
1 circuit breaker (MCB)	1 Acoustic and light alarm 24 VAC	3 PG Force presses
2 Thermal circuit breakers	3 Red pilot lights 230 VAC	3 PG Control presses
2 Contact circuit breakers	5 Green pilot lights 230 VAC	4 24V 4 Contactor relays
2 230 VAC Contactors	2 Three position selectors	4 4 Contact base relays
1 40 W 230-24 Torodial transformer	1 Force terminal	1 Synoptic
	1 Control terminal	1 Wiring

## BAILING PANEL IN METAL CABINET FOR ONE PUMP WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT



The RES1MNX range has the same characteristics as the RES1MN range on previous pages, with an added display and alarm for minimum and maximum levels. A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.

MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES1MNX-01M	9A	MECHANIC	2,5 - 4	SINGLE PHASE 230 VAC	1	0,25	<b>0,33</b>	492 €	451 €
RES1MNX-02M	9A		2,5 - 4			0,37	<b>0,5</b>	492 €	451 €
RES1MNX-03M	9A		4 - 6			0,55	<b>0,75</b>	492 €	451 €
RES1MNX-04M	12A		4 - 6			0,75	<b>1</b>	492 €	451 €
RES1MNX-05M	12A		7 - 10			1,1	<b>1,5</b>	502 €	451 €
RES1MNX-06M	18A		9 - 13			1,5	<b>2</b>	532 €	463 €
RES1MNX-07M	18A		12 - 18			2,2	<b>3</b>	583 €	472 €
RES1MNX-01T	9A	MECHANIC	0,63 - 1	THREE PHASE 400 VAC	1	0,25	<b>0,33</b>	554 €	492 €
RES1MNX-02T	9A		1 - 1,6			0,37	<b>0,5</b>	554 €	492 €
RES1MNX-03T	9A		1,6 - 2,5			0,55	<b>0,75</b>	554 €	492 €
RES1MNX-04T	9A		1,6 - 2,5			0,75	<b>1</b>	554 €	492 €
RES1MNX-05T	9A		2,5 - 4			1,1	<b>1,5</b>	554 €	492 €
RES1MNX-06T	9A		2,5 - 4			1,5	<b>2</b>	554 €	492 €
RES1MNX-07T	9A		5,5 - 8			2,2	<b>3</b>	563 €	492 €
RES1MNX-08T	12A		5,5 - 8			3	<b>4</b>	563 €	492 €
RES1MNX-09T	12A		7 - 10			3,7	<b>5</b>	563 €	492 €
RES1MNX-10T	12A		9 - 13			4	<b>5,5</b>	563 €	492 €
RES1MNX-11T	18A		12 - 18			5,5	<b>7,5</b>	646 €	515 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 Alarm silencing button	2 Earth connection terminals
1 General switch	1 Acoustic and light alarm 24 VAC	2 PG Force presses
1 Circuit breaker (MCB)	3 Red pilot lights 230 VAC	2 PG Control presses
1 Thermal circuit breaker	3 Green pilot lights 230 VAC	4 24V 4 Contactor relays
1 Contact circuit breaker	1 Three position selector	4 4 Contact base relays
1 230 VAC Contactor	1 Force terminal	1 Synoptic
1 40 W 230-24 Torodial transformer	1 Control terminal	1 Wiring
	1 Extended command	



## BAILING PANEL IN METAL CABINET FOR TWO PUMPS WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT

The RES2MNX range has the same characteristics as the RES2MN range on previous pages, with an added display and alarm for minimum and maximum levels. A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.



MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2MNX-01M	2 de 9A	MECHANIC	2 de 2,5 - 4	SINGLE PHASE 230 VAC	2	0,25	0,33	893 €	827 €
RES2MNX-02M	2 de 9A		2 de 2,5 - 4			0,37	0,5	893 €	827 €
RES2MNX-03M	2 de 9A		2 de 4 - 6			0,55	0,75	893 €	827 €
RES2MNX-04M	2 de 12A		2 de 4 - 6			0,75	1	893 €	827 €
RES2MNX-05M	2 de 12A		2 de 7 - 10			1,1	1,5	929 €	839 €
RES2MNX-06M	2 de 18A		2 de 9 - 13			1,5	2	989 €	862 €
RES2MNX-07M	2 de 18A		2 de 12 - 18			2,2	3	1.101 €	886 €
RES2MNX-01T	2 de 9A	MECHANIC	2 de 0,63 - 1	THREE PHASE 400 VAC	2	0,25	0,33	953 €	870 €
RES2MNX-02T	2 de 9A		2 de 1 - 1,6			0,37	0,5	953 €	868 €
RES2MNX-03T	2 de 9A		2 de 1,6 - 2,5			0,55	0,75	953 €	868 €
RES2MNX-04T	2 de 9A		2 de 1,6 - 2,5			0,75	1	953 €	868 €
RES2MNX-05T	2 de 9A		2 de 2,5 - 4			1,1	1,5	953 €	868 €
RES2MNX-06T	2 de 9A		2 de 2,5 - 4			1,5	2	956 €	869 €
RES2MNX-07T	2 de 9A		2 de 5,5 - 8			2,2	3	976 €	869 €
RES2MNX-08T	2 de 12A		2 de 5,5 - 8			3	4	976 €	869 €
RES2MNX-09T	2 de 12A		2 de 7 - 10			3,7	5	984 €	874 €
RES2MNX-10T	2 de 12A		2 de 9 - 13			4	5,5	984 €	874 €
RES2MNX-11T	2 de 18A		2 de 12 - 18			5,5	7,5	1.159 €	925 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 11 pole base relay	1 Extended command
1 General switch	1 Alarm silencing button	3 Earth connection terminals
1 Circuit breaker (MCB)	1 Acoustic and light alarm 24 VAC	3 PG Force presses
2 Thermal circuit breakers	4 Red pilot lights 230 VAC	3 PG Control presses
2 Contact circuit breakers	5 Green pilot lights 230 VAC	6 24V 4 Contactor relays
2 230 VAC Contactors	2 Three position selectors	6 4 Contact base relays
1 40 W 230-24 Torodial transformer	1 Force terminal	1 Synoptic
1 230 V 2 B Alternating relay	1 Control terminal	1 Wiring



## BAILING PANEL IN METAL CABINET FOR ONE PUMP IN STAR DELTA WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT



With the same functioning of interlocking pumps as in the RES1MN range the RES1ETNX range changes direct starting for star delta. Remembering that instruction MIBT34 of Electro-technical Regulations limits direct starting to certain powers so as not to disrupt the network and its neighbours. For this start-up the pump should have six accessible terminals.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.

MODEL	TECHNICAL CHARACTERISTICS										PRICE	
	SIZE OF MAGNET.	SIZE OF CONTACTORS			TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
	PRINCIPAL	STAR	DELTA									
RES1ETNX-01	20A	12	12	9	MECHANIC	7 - 10	THREE PHASE 400 VAC	1	5,5	7,5	909 €	735 €
RES1ETNX-02	25A	12	12	9		9 - 13			7,5	10	909 €	735 €
RES1ETNX-03	32A	18	18	9		12 - 18			9,3	12,5	959 €	761 €
RES1ETNX-04	32A	18	18	12		12 - 18			11	15	966 €	763 €
RES1ETNX-05	50A	25	25	12		17 - 25			15	20	1.159 €	849 €
RES1ETNX-06	63A	32	32	18		17 - 25			18,5	25	1.284 €	889 €
RES1ETNX-07	63A	32	32	25		23 - 32			22	30	1.375 €	946 €
RES1ETNX-08	80A	40	40	25		30 - 40			26	35	1.619 €	1.112 €
RES1ETNX-09	100A	50	50	32		37 - 50			30	40	1.836 €	1.211 €
RES1ETNX-10	125A	65	65	32		37 - 50			37	50	2.054 €	1.311 €
RES1ETNX-11	125A	65	65	40		48 - 65			45	60	2.204 €	1.434 €
RES1ETNX-12	160A	80	80	50		63 - 80			55	75	2.739 €	1.796 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 Acoustic and light alarm 24 VAC	1 Voltmeter
1 General switch	3 Red pilot lights 230 VAC	2 Earth connection terminals
1 Circuit breaker (MCB)	3 Green pilot lights 230 VAC	2 PG Force presses
1 Miniature circuit breaker (MCB) 2 x 6A	1 Three position selector	2 PG Control presses
1 Main contact + 1 Delta contact	1 Force terminal	4 24V 4 Contactor relays
1 Star contact	1 Control terminal	4 4 Contact base relays
1 40 W 230-24 Torodial transformer	1 Extended command	1 Synoptic
1 Alarm silencing button	1 Ammeter	1 Wiring



## BAILING PANEL IN METAL CABINET FOR TWO PUMPS IN STAR DELTA WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT

With the same functioning of interlocking pumps as in the RES2MN range the RES2ETNX range changes direct starting for star delta. Remembering that instruction MIBT34 of Electro-technical Regulations limits direct starting to certain powers so as not to disrupt the network and its neighbours. For this start-up the pump should have six accessible terminals. A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.



MODEL	TECHNICAL CHARACTERISTICS										PRICE	
	SIZE OF MAGNET.	SIZE OF CONTACTORS			TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
	PRINCIPAL	STAR	DELTA									
RES2ETNX-01	2 de 20A	2 de 12	2 de 12	2 de 9	MECHANIC	2 de 7 - 10	THREE PHASE 400 VAC	2	5,5	7,5	1.369 €	1.059 €
RES2ETNX-02	2 de 25A	2 de 12	2 de 12	2 de 9		2 de 9 - 13			7,5	10	1.405 €	1.094 €
RES2ETNX-03	2 de 32A	2 de 18	2 de 18	2 de 9		2 de 12 - 18			9,3	12,5	1.504 €	1.131 €
RES2ETNX-04	2 de 32A	2 de 18	2 de 18	2 de 12		2 de 12 - 18			11	15	1.517 €	1.146 €
RES2ETNX-05	2 de 50A	2 de 25	2 de 18	2 de 12		2 de 17 - 25			15	20	1.853 €	1.254 €
RES2ETNX-06	2 de 63A	2 de 32	2 de 32	2 de 18		2 de 17 - 25			18,5	25	2.103 €	1.334 €
RES2ETNX-07	2 de 63A	2 de 32	2 de 32	2 de 25		2 de 23 - 32			22	30	2.272 €	1.436 €
RES2ETNX-08	2 de 80A	2 de 40	2 de 40	2 de 25		2 de 30 - 40			26	35	2.849 €	1.857 €
RES2ETNX-09	2 de 100A	2 de 50	2 de 50	2 de 32		2 de 37 - 50			30	40	3.342 €	2.113 €
RES2ETNX-10	2 de 125A	2 de 65	2 de 65	2 de 32		2 de 37 - 50			37	50	3.782 €	2.316 €
RES2ETNX-11	2 de 125A	2 de 65	2 de 65	2 de 40		2 de 48 - 65			45	60	4.010 €	2.488 €
RES2ETNX-12	2 de 160A	2 de 80	2 de 80	2 de 50		2 de 63 - 80			55	75	5.054 €	3.187 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	4 Red pilot lights 230 VAC	5 PG Force presses
1 General switch	4 Green pilot lights 230 VAC	5 PG Control presses
1 Circuit breaker (MCB)	2 Three position selectors	2 Thermal relays
1 Miniature circuit breaker (MCB) 2 x 6A	1 Force terminal	1 230 VAC 2 B Alternating relay
2 Main contacts + 2 Delta contacts	1 Control terminal	2 Star-Delta relays
2 Star contacts	1 Extended command	6 4 Contact 24 V base relays
1 40 W 230-24 Torodial transformer	3 Earth connection terminals	6 4 Contact base relays
1 Alarm silencing button	2 Ammeters	1 Synoptic
1 Acoustic and light alarm 24 VAC	1 Voltmeter	1 Wiring

**BAILING PANEL IN METAL CABINET FOR TWO PUMPS IN PROGRESSIVE ELECTRONIC START-UP WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT**



With the same functioning of interlocking pumps as in the RES1MN range the RES-1APNX range changes direct starting for progressive electronic start-up. Remembering that instruction MIBT34 of Electro-technical Regulations limits direct starting to certain powers so as not to disrupt the network and its neighbours. Unlike the star-delta start-up of the RES1ET range here it is only necessary to have three accessible terminals of the motor and to place only one cable. It also improves the linearity of the start-up and stopping of the equipment and therefore any water hammers.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.

MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	TYPE OF MAGNET.	SIZE OF STARTER	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES1APNX-01	20A	17A	MECHANIC	9 - 14	THREE PHASE 400 VAC	1	5,5	7,5	1.004 €	829 €
RES1APNX-02	25A	22A		13 - 18			7,5	10	1.004 €	829 €
RES1APNX-03	32A	31A		17 - 23			9,3	12,5	1.054 €	856 €
RES1APNX-04	32A	31A		20 - 25			11	15	1.060 €	857 €
RES1APNX-05	50A	44A		25 - 32			15	20	1.254 €	944 €
RES1APNX-06	63A	44A		37 - 50			18,5	25	1.379 €	984 €
RES1APNX-07	63A	58A		37 - 50			22	30	1.469 €	1.041 €
RES1APNX-08	80A	58A	ELECTRONICALLY SELF PROTECTED STARTER	THREE PHASE 400 VAC	1	26	35	1.715 €	1.206 €	
RES1APNX-09	100A	72A				30	40	1.930 €	1.305 €	
RES1APNX-10	125A	85A				37	50	2.149 €	1.405 €	
RES1APNX-11	125A	105A				45	60	2.299 €	1.528 €	
RES1APNX-12	160A	145A				55	75	2.835 €	1.891 €	

**MANUFACTURING COMPONENTS**

- |  |                              |                          |
|--|------------------------------|--------------------------|
| 1 GN Metal casing with plaque            | 1 Ammeter                    | 2 PG Force presses       |
| 1 General switch                         | 1 Voltmeter                  | 2 PG Control presses     |
| 1 Circuit breaker (MCB)                  | 3 Red pilot lights 230 VAC   | 1 Ventilator             |
| 1 Miniature circuit breaker (MCB) 2 x 6A | 3 Green pilot lights 230 VAC | 2 Ventilation grilles    |
| 1 Alarm silencing button                 | 1 Three position selector    | 1 Star-Delta relay       |
| 1 Acoustic and light alarm 24 VAC        | 1 Force terminal             | 4 24V 4 Contactor relays |
| 1 40 W 230-24 Torodial transformer       | 1 Control terminal           | 4 4 Contact base relays  |
| 1 Progressive starter                    | 2 Earth connection terminals | 1 Synoptic               |
|  | 1 Extended command           | 1 Wiring                 |

## BAILING PANEL IN METAL CABINET FOR TWO PUMPS IN PROGRESSIVE ELECTRONIC START-UP WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT

With the same functioning of interlocking pumps as in the RES2MN range the RES2APNX range changes direct starting for progressive electronic start-up. Remembering that instruction MIBT34 of Electro-technical Regulations limits direct starting to certain powers so as not to disrupt the network and its neighbours. Unlike the star-delta start-up of the RES2ET range here it is only necessary to have three accessible terminals of the motor and to place only one cable. It also improves the linearity of the start-up and stopping of the equipment and therefore any water hammers.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.



MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	TYPE OF MAGNET.	SIZE OF STARTER	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2APNX-01	2 de 20A	2 de 17A	MECHANIC	2 de 9 - 14	THREE PHASE 400 VAC	2	5,5	7,5	1.708 €	1.628 €
RES2APNX-02	2 de 25A	2 de 22A		2 de 13 - 18			7,5	10	2.233 €	2.070 €
RES2APNX-03	2 de 32A	2 de 31A		2 de 17 - 23			9,3	12,5	2.544 €	2.358 €
RES2APNX-04	2 de 32A	2 de 31A		2 de 20 - 25			11	15	2.592 €	2.374 €
RES2APNX-05	2 de 50A	2 de 44A		2 de 25 - 32			15	20	4.024 €	3.633 €
RES2APNX-06	2 de 63A	2 de 44A		2 de 37 - 50			18,5	25	4.128 €	3.692 €
RES2APNX-07	2 de 63A	2 de 58A		2 de 37 - 50			22	30	4.550 €	3.959 €
RES2APNX-08	2 de 80A	2 de 58A	ELECTRONICALLY SELF PROTECTED STARTER		THREE PHASE 400 VAC	2	26	35	4.741 €	4.466 €
RES2APNX-09	2 de 100A	2 de 72A					30	40	5.478 €	5.197 €
RES2APNX-10	2 de 125A	2 de 85A					37	50	6.214 €	5.925 €
RES2APNX-11	2 de 125A	2 de 105A					45	60	6.824 €	6.534 €
RES2APNX-12	2 de 160A	2 de 145A					55	75	8.618 €	8.168 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	2 Ammeters	5 PG Force presses
1 General switch	1 Voltmeter	5 PG Control presses
1 circuit breaker (MCB)	4 Red pilot lights 230 VAC	1 Ventilator
1 Miniature circuit breaker (MCB) 2 x 6A	4 Green pilot lights 230 VAC	2 Ventilation grilles
1 Alarm silencing button	2 Three position selectors	2 230 VAC 2 B Alternating relays
1 Acoustic and light alarm 24 VAC	1 Force terminal	6 24V 4 Contactor relays
1 40 W 230-24 Torodial transformer	1 Control terminal	6 4 Contact base relays
2 Progressive starters	3 Earth connection terminals	1 Synoptic
	1 Extended command	1 Wiring



**BAILING PANEL IN METAL CABINET FOR ONE PUMP PROTECTED BY TEMPERATURE AND HUMIDITY RELAYS WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT**



A step further in the RES1MNX range, with indication and alarm of levels of function and of minimum and maximum levels, the RES1MTH also incorporates temperature and humidity alarm relays.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.

MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES1MTH-01M	9A	MECHANIC	2,5 - 4	SINGLE PHASE 230 VAC	1	0,25	<b>0,33</b>	533 €	493 €
RES1MTH-02M	9A		2,5 - 4			0,37	<b>0,5</b>	533 €	493 €
RES1MTH-03M	9A		4 - 6			0,55	<b>0,75</b>	533 €	493 €
RES1MTH-04M	12A		4 - 6			0,75	<b>1</b>	533 €	493 €
RES1MTH-05M	12A		7 - 10			1,1	<b>1,5</b>	544 €	493 €
RES1MTH-06M	18A		9 - 13			1,5	<b>2</b>	574 €	504 €
RES1MTH-07M	18A		12 - 18			2,2	<b>3</b>	624 €	514 €
RES1MTH-01T	9A	MECHANIC	0,63 - 1	THREE PHASE 400 VAC	1	0,25	<b>0,33</b>	595 €	534 €
RES1MTH-02T	9A		1 - 1,6			0,37	<b>0,5</b>	595 €	534 €
RES1MTH-03T	9A		1,6 - 2,5			0,55	<b>0,75</b>	595 €	534 €
RES1MTH-04T	9A		1,6 - 2,5			0,75	<b>1</b>	595 €	534 €
RES1MTH-05T	9A		2,5 - 4			1,1	<b>1,5</b>	595 €	534 €
RES1MTH-06T	9A		2,5 - 4			1,5	<b>2</b>	595 €	534 €
RES1MTH-07T	9A		5,5 - 8			2,2	<b>3</b>	604 €	534 €
RES1MTH-08T	12A		5,5 - 8			3	<b>4</b>	604 €	534 €
RES1MTH-09T	12A		7 - 10			3,7	<b>5</b>	605 €	534 €
RES1MTH-10T	12A		9 - 13			4	<b>5,5</b>	606 €	534 €
RES1MTH-11T	18A		12 - 18			5,5	<b>7,5</b>	688 €	557 €

**MANUFACTURING COMPONENTS**

- |  |                                   |                              |
|--|-----------------------------------|------------------------------|
| 1 GN Metal casing with plaque            | 1 Acoustic and light alarm 24 VAC | 2 Earth connection terminals |
| 1 General switch                         | 1 Ammeter                         | 1 Extended command           |
| 1 Miniature circuit breaker (MCB) 2 x 6A | 1 Voltmeter                       | 2 PG Force presses           |
| 1 230V Contactor                         | 4 Red pilot lights 230 VAC        | 2 PG Control presses         |
| 1 Thermal circuit breaker                | 3 Green pilot lights 230 VAC      | 1 Star-Delta relay           |
| 1 Contact circuit breaker                | 1 Yellow pilot light 230 VAC      | 6 24V 4 Contactor relays     |
| 1 40 W 230-24 Torodial transformer       | 1 Three position selector         | 6 4 Contact base relays      |
| 1 Alarm silencing button                 | 1 Force terminal                  | 1 Synoptic                   |
|  | 1 Control terminal                | 1 Wiring                     |



## BAILING PANEL IN METAL CABINET FOR TWO PUMPS PROTECTED BY TEMPERATURE AND HUMIDITY RELAYS WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT

A step further in the RES2MNX range, with indication and alarm of levels of function and of minimum and maximum levels, the RES2MTH also incorporates temperature and humidity alarm relays.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.



MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2MTH-01M	2 de 9A	MECHANIC	2 de 2,5 - 4	SINGLE PHASE 230 VAC	2	0,25	<b>0,33</b>	1.056 €	990 €
RES2MTH-02M	2 de 9A		2 de 2,5 - 4			0,37	<b>0,5</b>	1.056 €	990 €
RES2MTH-03M	2 de 9A		2 de 4 - 6			0,55	<b>0,75</b>	1.056 €	990 €
RES2MTH-04M	2 de 12A		2 de 4 - 6			0,75	<b>1</b>	1.056 €	990 €
RES2MTH-05M	2 de 12A		2 de 7 - 10			1,1	<b>1,5</b>	1.094 €	1.002 €
RES2MTH-06M	2 de 18A		2 de 9 - 13			1,5	<b>2</b>	1.153 €	1.026 €
RES2MTH-07M	2 de 18A		2 de 12 - 18			2,2	<b>3</b>	1.265 €	1.049 €
RES2MTH-01T	2 de 9A	MECHANIC	2 de 0,63 - 1	THREE PHASE 400 VAC	2	0,25	<b>0,33</b>	1.119 €	1.031 €
RES2MTH-02T	2 de 9A		2 de 1 - 1,6			0,37	<b>0,5</b>	1.119 €	1.031 €
RES2MTH-03T	2 de 9A		2 de 1,6 - 2,5			0,55	<b>0,75</b>	1.119 €	1.031 €
RES2MTH-04T	2 de 9A		2 de 1,6 - 2,5			0,75	<b>1</b>	1.119 €	1.031 €
RES2MTH-05T	2 de 9A		2 de 2,5 - 4			1,1	<b>1,5</b>	1.119 €	1.031 €
RES2MTH-06T	2 de 9A		2 de 2,5 - 4			1,5	<b>2</b>	1.119 €	1.033 €
RES2MTH-07T	2 de 9A		2 de 5,5 - 8			2,2	<b>3</b>	1.140 €	1.033 €
RES2MTH-08T	2 de 12A		2 de 5,5 - 8			3	<b>4</b>	1.140 €	1.033 €
RES2MTH-09T	2 de 12A		2 de 7 - 10			3,7	<b>5</b>	1.149 €	1.038 €
RES2MTH-10T	2 de 12A		2 de 9 - 13			4	<b>5,5</b>	1.149 €	1.038 €
RES2MTH-11T	2 de 18A		2 de 12 - 18			5,5	<b>7,5</b>	1.324 €	1.088 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque  
1 General switch  
1 Miniature circuit breaker (MCB) 2 x 6A  
2 230V Contactors  
2 Thermal circuit breakers  
2 Contact circuit breakers  
1 40 W 230-24 Torodial transformer  
1 Alarm silencing button

1 Acoustic and light alarm 24 VAC  
2 Ammeters  
1 Voltmeter  
6 Red pilot lights 230 VAC  
5 Green pilot lights 230 VAC  
2 Yellow pilot lights 230 VAC  
2 Three position selectors  
1 Force terminal  
1 Control terminal

3 Earth connection terminals  
1 Extended command  
5 PG Force presses  
5 PG Control presses  
2 Thermal relays  
10 24V 4 Contactor relays  
10 4 Contact base relays  
1 Synoptic  
1 Wiring

**BAILING PANEL IN METAL CABINET FOR ONE PUMP WITH STAR-DELTA PROTECTED BY TEMPERATURE AND HUMIDITY RELAYS WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT**



A step further in the RES1ET range, with star-delta starter, with indication and alarm of levels of function and of minimum and maximum levels, the RES1ETTH also incorporates temperature and humidity alarm relays.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.

MODEL	TECHNICAL CHARACTERISTICS									PRICE		
	SIZE OF MAGNET.	SIZE OF CONTACTORS			TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
	PRINCIPAL	STAR	DELTA									
RES1ETTH-01	20A	12	12	9	MECHANIC	7 - 10	THREE PHASE 400 VAC	1	5,5	7,5	1.004 €	829 €
RES1ETTH-02	25A	12	12	9		9 - 13			7,5	10	1.004 €	829 €
RES1ETTH-03	32A	18	18	9		12 - 18			9,3	12,5	1.053 €	857 €
RES1ETTH-04	32A	18	18	12		12 - 18			11	15	1.060 €	857 €
RES1ETTH-05	50A	25	25	12		17 - 25			15	20	1.254 €	944 €
RES1ETTH-06	63A	32	32	18		17 - 25			18,5	25	1.379 €	984 €
RES1ETTH-07	63A	32	32	25		23 - 32			22	30	1.469 €	1.041 €
RES1ETTH-08	80A	40	40	25		30 - 40			26	35	1.714 €	1.206 €
RES1ETTH-09	100A	50	50	32		37 - 50			30	40	1.930 €	1.305 €
RES1ETTH-10	125A	65	65	32		37 - 50			37	50	2.149 €	1.405 €
RES1ETTH-11	125A	65	65	40		48 - 65			45	60	2.299 €	1.528 €
RES1ETTH-12	160A	80	80	50		63 - 80			55	75	2.835 €	1.891 €

**MANUFACTURING COMPONENTS**

- |  |                              |                              |
|--|------------------------------|------------------------------|
| 1 GN Metal casing with plaque            | 1 Voltmeter                  | 2 PG Force presses           |
| 1 General switch                         | 3 Red pilot lights 230 VAC   | 2 PG Control presses         |
| 1 Miniature circuit breaker (MCB) 2 x 6A | 3 Green pilot lights 230 VAC | 1 Star-Delta relay           |
| 1 Main contactor+ 1 Delta contactor      | 1 Yellow pilot light 230 VAC | 1 Thermal relay              |
| 1 Star contactor                         | 1 Three position selector    | 1 Humidity-temperature relay |
| 1 40 W 230-24 Torodial transformer       | 1 Force terminal             | 6 24V 4 Contactorelays       |
| 1 Alarm silencing button                 | 1 Control terminal           | 6 4 Contact base relays      |
| 1 Acoustic and light alarm 24 VAC        | 2 Earth connection terminals | 2 11 Pole base relays        |
| 1 Ammeter                                | 1 Extended command           | 1 Synoptic                   |
|  |                              | 1 Wiring                     |



BAILING PANEL IN METAL CABINET FOR TWO PUMPS WITH STAR-DELTA PROTECTED BY TEMPERATURE AND HUMIDITY RELAYS WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT

A step further in the RES2ET range, with star-delta starter, with indication and alarm of levels of function and of minimum and maximum levels, the RES2ETTH also incorporates temperature and humidity alarm relays.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.



MODEL	TECHNICAL CHARACTERISTICS										PRICE	
	SIZE OF MAGNET.	SIZE OF CONTACTORS			TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
PRINCIPAL	STAR	DELTA										
RES2ETTH-01	2 de 20A	2 de 12	2 de 12	2 de 9	MECHANIC	2 de 7 - 10	THREE PHASE 400 VAC	2	5,5	7,5	1.556 €	1.255 €
RES2ETTH-02	2 de 25A	2 de 12	2 de 12	2 de 9		2 de 9 - 13			7,5	10	1.591 €	1.289 €
RES2ETTH-03	2 de 32A	2 de 18	2 de 18	2 de 9		2 de 12 - 18			9,3	12,5	1.690 €	1.341 €
RES2ETTH-04	2 de 32A	2 de 18	2 de 18	2 de 12		2 de 12 - 18			11	15	1.704 €	1.326 €
RES2ETTH-05	2 de 50A	2 de 25	2 de 18	2 de 12		2 de 17 - 25			15	20	2.039 €	1.449 €
RES2ETTH-06	2 de 63A	2 de 32	2 de 32	2 de 18		2 de 17 - 25			18,5	25	2.289 €	1.529 €
RES2ETTH-07	2 de 63A	2 de 32	2 de 32	2 de 25		2 de 23 - 32			22	30	2.459 €	1.630 €
RES2ETTH-08	2 de 80A	2 de 40	2 de 40	2 de 25		2 de 30 - 40			26	35	3.036 €	2.052 €
RES2ETTH-09	2 de 100A	2 de 50	2 de 50	2 de 32		2 de 37 - 50			30	40	3.541 €	2.319 €
RES2ETTH-10	2 de 125A	2 de 65	2 de 65	2 de 32		2 de 37 - 50			37	50	3.980 €	2.523 €
RES2ETTH-11	2 de 125A	2 de 65	2 de 65	2 de 40		2 de 48 - 65			45	60	4.208 €	2.694 €
RES2ETTH-12	2 de 160A	2 de 80	2 de 80	2 de 50		2 de 63 - 80			55	75	5.289 €	3.412 €

## MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 Voltmeter	5 PG Force presses
1 General switch	6 Red pilot lights 230 VAC	5 PG Control presses
1 Miniature circuit breaker (MCB) 2 x 6A	6 Green pilot lights 230 VAC	2 Star-Delta relays
2 Main contactors+ 2 Delta contactors	2 Yellow pilot lights 230 VAC	1 230 VAC 2 B Alternating relays
2 Star contactors	2 Three position selectors	2 Humidity-temperature relays
1 40 W 230-24 Torodial transformer	1 Force terminal	10 24V 4 Contactor relays
1 Alarm silencing button	1 Control terminal	10 4 Contact base relays
1 Acoustic and light alarm 24 VAC	3 Earth connection terminals	3 11 Pole base relays
2 Ammeters	1 Extended command	1 Synoptic
		1 Wiring



BAILING PANEL IN METAL CABINET FOR ONE PUMP WITH PROGRESSIVE ELECTRONIC START-UP PROTECTED BY TEMPERATURE AND HUMIDITY RELAYS WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT



A step further in the RES1AP range, with progressive starter, with indication and alarm of levels of function and of minimum and maximum levels, the RES1APTH also incorporates temperature and humidity alarm relays.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.

MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	TYPE OF MAGNET.	SIZE OF STARTER	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES1APTH-01	20A	17A	MECHANIC	9 - 14	THREE PHASE 400 VAC	1	5,5	7,5	1.180 €	1.134 €
RES1APTH-02	25A	22A		13 - 18			7,5	10	1.442 €	1.356 €
RES1APTH-03	32A	31A		17 - 23			9,3	12,5	1.598 €	1.500 €
RES1APTH-04	32A	31A		20 - 25			11	15	1.622 €	1.508 €
RES1APTH-05	50A	44A		25 - 32			15	20	2.406 €	2.154 €
RES1APTH-06	63A	44A		37 - 50			18,5	25	2.484 €	2.184 €
RES1APTH-07	63A	58A		37 - 50			22	30	2.624 €	2.323 €
RES1APTH-08	80A	58A	ELECTRONICALLY SELF PROTECTED STARTER	THREE PHASE 400 VAC	1	26	35	2.760 €	2.617 €	
RES1APTH-09	100A	72A				30	40	3.085 €	2.939 €	
RES1APTH-10	125A	85A				37	50	3.451 €	3.301 €	
RES1APTH-11	125A	105A				45	60	3.822 €	3.673 €	
RES1APTH-12	160A	145A				55	75	4.756 €	4.526 €	

#### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 Voltmeter	3 PG Force presses
1 General switch	4 Red pilot lights 230 VAC	4 PG Control presses
1 circuit breaker (MCB)	3 Green pilot lights 230 VAC	1 Ventilator
1 circuit breaker (MCB)	1 Yellow pilot light 230 VAC	2 Ventilation grilles
1 Alarm silencing button	1 Three position selector	1 Electronic humidity relay
1 Acoustic and light alarm 24 VAC	1 Force terminal	11 11 Pole base relays
1 40 W 230-24 Torodial transformer	1 Control terminal	6 24V 4 Contact relays
1 Progressive starter	3 Earth connection terminals	6 4 Contact base relays
1 Ammeter	1 Extended command	1 Synoptic
		1 Wiring



BAILING PANEL IN METAL CABINET FOR TWO PUMPS WITH PROGRESSIVE ELECTRONIC START-UP PROTECTED BY TEMPERATURE AND HUMIDITY RELAYS WITH LEVEL INDICATIONS AND ALARM FOR MINIMUM AND MAXIMUM LEVELS AND INTERLOCKING OF PUMPS UNTIL THE LEVEL DROPS TO STOPPING HEIGHT

A step further in the RES2AP range, with progressive starter, with indication and alarm of levels of function and of minimum and maximum levels, the RES2APTH also incorporates temperature and humidity alarm relays.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The magneto-thermal protection through a circuit breaker guarantees an efficient protection against overloading. The three position selector MANUAL-0-AUTOMATIC, allows the pump to be activated independent to the order of the level switches for example to test revolution directions or other maintenance operations.

Complimentary items can be added to the base panel such as: relays or circuit breaker contacts, to activate the alarm with thermal rise, measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.



MODEL	TECHNICAL CHARACTERISTICS								PRICE	
	TYPE OF MAGNET.	SIZE OF STARTER	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2APTH-01	2 de 20A	2 de 17A	MECHANIC	2 de 9 - 14	THREE PHASE 400 VAC	2	5,5	7,5	1.812 €	1.740 €
RES2APTH-02	2 de 25A	2 de 22A		2 de 13 - 18			7,5	10	2.336 €	2.181 €
RES2APTH-03	2 de 32A	2 de 31A		2 de 17 - 23			9,3	12,5	2.643 €	2.467 €
RES2APTH-04	2 de 32A	2 de 31A		2 de 20 - 25			11	15	2.692 €	2.482 €
RES2APTH-05	2 de 50A	2 de 44A		2 de 25 - 32			15	20	4.126 €	3.721 €
RES2APTH-06	2 de 63A	2 de 44A		2 de 37 - 50			18,5	25	4.273 €	3.777 €
RES2APTH-07	2 de 63A	2 de 58A		2 de 37 - 50			22	30	4.540 €	4.044 €
RES2APTH-08	2 de 80A	2 de 58A	ELECTRONICALLY SELF PROTECTED STARTER	THREE PHASE 400 VAC	2	26	35	4.638 €	4.485 €	
RES2APTH-09	2 de 100A	2 de 72A				30	40	5.370 €	5.214 €	
RES2APTH-10	2 de 125A	2 de 85A				37	50	6.092 €	5.933 €	
RES2APTH-11	2 de 125A	2 de 105A				45	60	6.702 €	6.542 €	
RES2APTH-12	2 de 160A	2 de 145A				55	75	8.193 €	7.952 €	

#### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 Voltmeter	1 Extended command
1 General switch	6 Red pilot lights 230 VAC	5 PG Force presses
2 circuit breakers (MCB)	5 Green pilot lights 230 VAC	5 PG Control presses
2 circuit breakers (MCB)	2 Yellow pilot lights 230 VAC	1 Ventilator
1 Alarm silencing button	2 Three position selector	2 Ventilation grilles
1 Acoustic and light alarm 24 VAC	2 Electronic humidity relays	1 230 VAC 2B Alternating relay
1 40 W 230-24 Torodial transformer	3 11 Pole base relays	10 24V 4 Contact relays
2 Progressive starters	1 Force terminal	10 4 Contact base relays
2 Ammeters	1 Control terminal	1 Synoptic
	3 Earth connection terminals	1 Wiring

## BAILING PANEL IN METAL CABINET FOR ONE PUMP WITH AUTOMATON



The RES1AT range: this model is designed for the control of one pump in the moving of residual and rain waters.

It generates all of the records and parameters necessary for absolute control of the system, we also have a series of supplementary items available for this model, such as: system via radio, GSM/GPRS mode, output unit RS485 (modbus, Profibus) etc.

The thermal control of this model is electronic therefore assuring an efficient protection for the motor.

With regards to protection there are various complementary items available such as: differential, humidity sensor, connection for PTC-PT100 etc.

Note: we can manufacture customised models of the RES1AT range (upon request).

MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES1AT-01M	9A	ELECTRONIC	2,5 - 4	SINGLE PHASE 230 VAC	1	0,25	<b>0,33</b>	1.540 €	1.415 €
RES1AT-02M	9A		2,5 - 4			0,37	<b>0,5</b>	1.540 €	1.415 €
RES1AT-03M	9A		4 - 6			0,55	<b>0,75</b>	1.540 €	1.415 €
RES1AT-04M	12A		4 - 6			0,75	<b>1</b>	1.540 €	1.415 €
RES1AT-05M	12A		7 - 10			1,1	<b>1,5</b>	1.540 €	1.415 €
RES1AT-06M	18A		9 - 13			1,5	<b>2</b>	1.540 €	1.415 €
RES1AT-07M	18A		12 - 18			2,2	<b>3</b>	1.616 €	1.562 €
RES1AT-01T	9A	ELECTRONIC	0,63 - 1	THREE PHASE 400 VAC	1	0,25	<b>0,33</b>	1.899 €	1.784 €
RES1AT-02T	9A		1 - 1,6			0,37	<b>0,5</b>	1.899 €	1.784 €
RES1AT-03T	9A		1,6 - 2,5			0,55	<b>0,75</b>	1.899 €	1.784 €
RES1AT-04T	9A		1,6 - 2,5			0,75	<b>1</b>	1.899 €	1.784 €
RES1AT-05T	9A		2,5 - 4			1,1	<b>1,5</b>	1.899 €	1.784 €
RES1AT-06T	9A		2,5 - 4			1,5	<b>2</b>	1.899 €	1.784 €
RES1AT-07T	9A		5,5 - 8			2,2	<b>3</b>	1.899 €	1.784 €
RES1AT-08T	12A		5,5 - 8			3	<b>4</b>	1.899 €	1.784 €
RES1AT-09T	12A		7 - 10			3,7	<b>5</b>	1.899 €	1.784 €
RES1AT-10T	12A		9 - 13			4	<b>5,5</b>	1.974 €	1.810 €
RES1AT-11T	18A		12 - 18			5,5	<b>7,5</b>	1.998 €	1.896 €

CHARACTERISTICS:	OPTIONAL:
<ul style="list-style-type: none"> <li>-Level switch function</li> <li>-Level status signalisation</li> <li>-Function and pump fault signalisation</li> <li>-Local and remote alarm</li> <li>-Manual/Automatic system</li> </ul>	<ul style="list-style-type: none"> <li>-Control and remote alarms GSM/GPRS</li> <li>-Motor temperature PTC/ PT100</li> <li>-Remote signals via radio</li> <li>-Transmitter input level 4-20 mA</li> <li>-Differential protection</li> </ul>
<ul style="list-style-type: none"> <li>-Record of hours and number of start-ups</li> <li>-Record of faults and levels</li> <li>-PLC with LCD 2 X 20 character display</li> <li>-PLC with motor humidity protection</li> <li>-Motor temperature protection (thermistor)</li> </ul>	

## BAILING PANEL IN METAL CABINET FOR TWO PUMPS WITH AUTOMATON

The RES2AT range: this model is designed for the control of two pumps in the moving of residual and rain waters.

It generates all of the records and parameters necessary for absolute control of the system, we also have a series of supplementary items available for this model, such as: system via radio, GSM/GPRS mode, output unit RS485 (modbus, Profibus) etc.

The thermal control of this model is electronic therefore assuring an efficient protection for the motor.

With regards to protection there are various complementary items available such as: differential, humidity sensor, connection for PTC-PT100 etc.

Note: we can manufacture customised models of the RES1AT range (upon request).



MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG   LS
RES2AT-01M	2 de 9A	ELECTRONIC	2 de 2,5 - 4	SINGLE PHASE 230 VAC	2	0,25	<b>0,33</b>	1.965 €	1.855 €
RES2AT-02M	2 de 9A		2 de 2,5 - 4			0,37	<b>0,5</b>	1.965 €	1.855 €
RES2AT-03M	2 de 9A		2 de 4 - 6			0,55	<b>0,75</b>	1.965 €	1.855 €
RES2AT-04M	2 de 12A		2 de 4 - 6			0,75	<b>1</b>	1.965 €	1.855 €
RES2AT-05M	2 de 12A		2 de 7 - 10			1,1	<b>1,5</b>	1.965 €	1.855 €
RES2AT-06M	2 de 18A		2 de 9 - 13			1,5	<b>2</b>	1.965 €	1.855 €
RES2AT-07M	2 de 18A		2 de 12 - 18			2,2	<b>3</b>	2.070 €	1.960 €
RES2AT-01T	2 de 9A	ELECTRONIC	2 de 0,63 - 1	THREE PHASE 400 VAC	2	0,25	<b>0,33</b>	2.250 €	2.120 €
RES2AT-02T	2 de 9A		2 de 1 - 1,6			0,37	<b>0,5</b>	2.250 €	2.120 €
RES2AT-03T	2 de 9A		2 de 1,6 - 2,5			0,55	<b>0,75</b>	2.250 €	2.120 €
RES2AT-04T	2 de 9A		2 de 1,6 - 2,5			0,75	<b>1</b>	2.250 €	2.120 €
RES2AT-05T	2 de 9A		2 de 2,5 - 4			1,1	<b>1,5</b>	2.250 €	2.120 €
RES2AT-06T	2 de 9A		2 de 2,5 - 4			1,5	<b>2</b>	2.250 €	2.120 €
RES2AT-07T	2 de 9A		2 de 5,5 - 8			2,2	<b>3</b>	2.250 €	2.120 €
RES2AT-08T	2 de 12A		2 de 5,5 - 8			3	<b>4</b>	2.250 €	2.120 €
RES2AT-09T	2 de 12A		2 de 7 - 10			3,7	<b>5</b>	2.250 €	2.120 €
RES2AT-10T	2 de 12A		2 de 9 - 13			4	<b>5,5</b>	2.297 €	2.175 €
RES2AT-11T	2 de 18A		2 de 12 - 18			5,5	<b>7,5</b>	2.345 €	2.230 €

CHARACTERISTICS:	OPTIONAL:
<ul style="list-style-type: none"> <li>-Level switch function</li> <li>-Level status signalisation</li> <li>-Function and pump fault signalisation</li> <li>-Local and remote alarm</li> <li>-Manual/Automatic system</li> </ul>	<ul style="list-style-type: none"> <li>-Control and remote alarms GSM/GPRS</li> <li>-Motor temperature PTC/ PT100</li> <li>-Remote signals via radio</li> <li>-Transmitter input level 4-20 mA</li> <li>-Differential protection</li> </ul>
<ul style="list-style-type: none"> <li>-Record of hours and number of start-ups</li> <li>-Record of faults and levels</li> <li>-PLC with LCD 2 X 20 character display</li> <li>-PLC with motor humidity protection</li> <li>-Motor temperature protection (thermistor)</li> <li>- Automatic alternation and simultaneous</li> </ul>	

## ADVANCED BAILING PANEL FOR ONE PUMP WITH SPEED INVERTER AND PLC FOR MANAGEMENT AND SUPERVISION



For advanced applications the RES1VTH range has a speed inverter that is controlled by an automaton and on the door it has a display for interaction between man and machine. It is also able to send digital statuses to a control centre and also via communication series for example to receive commands to reset, to function etc.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The speed inverter is in charge of the motor's protection, this inverter will have the usual alarms for overloading, phase fault or imbalance, faults at earth, overheating, torque excess, etc. The PLC can take charge of various attempts to reset and can send a notice before activating the general alarm.

In addition a GPS modem can be included that will send an SMS to the mobile telephone of the person in charge of maintenance, the owner of the system etc to notify in case of alarm, start-up etc. Complimentary items can be added to the base panel such as: measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.

MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LS
RES1VTH-01	6A	3,7	PROTECTION OF INVERTER	THREE PHASE 400 VAC	1	1,5	2	3.397 €	3.368 €
RES1VTH-02	10A	5,5				2,2	3	3.517 €	3.488 €
RES1VTH-03	16A	9				3	4	3.985 €	3.954 €
RES1VTH-04	16A	9				4	5,5	4.020 €	3.989 €
RES1VTH-05	20A	12,5				5,5	7,5	4.326 €	4.295 €
RES1VTH-06	25A	16,5				7,5	10	4.641 €	4.608 €
RES1VTH-07	32A	23				11	15	5.061 €	5.028 €
RES1VTH-08	40A	30				15	20	5.452 €	5.413 €
RES1VTH-09	50A	37				18,5	25	6.091 €	5.959 €
RES1VTH-10	63A	44				22	30	6.344 €	6.207 €

MANUFACTURING COMPONENTS		
1 GN Metal casing with plaque	1 Touch screen	1 Three position selector
1 General switch	8 24V 4 Contact relays	1 Force terminal
1 Extended command	8 4 Contact base relays	1 Control terminal
1 circuit breaker (MCB)	1 Temperature- Humidity relay	3 Earth connection terminals
1 circuit breaker (MCB)	1 11 Pole base relay	3 PG Force presses
1 Speed inverter	1 40 W 230-24 Torodial transformer	4 PG Control presses
1 Automaton	1 Acoustic and light alarm 24 VAC	1 Ventilator
1 Power supply	4 Red pilot lights 230 VAC	2 Ventilation grilles
1 Analogue expansion	3 Green pilot lights 230 VAC	1 Synoptic
1 Alarm silencing button	1 Yellow pilot light 230 VAC	1 Wiring



## ADVANCED BAILING PANEL FOR TWO PUMPS WITH SPEED INVERTER AND PLC FOR MANAGEMENT AND SUPERVISION

For advanced applications the RES2VTH range has two speed inverters that are controlled by an automaton and on the door it has a display for interaction between man and machine. It is also able to send digital statuses to a control centre and also via communication series for example to receive commands to reset, to function etc.

A button is also included in this case to silence the alarm since the minimum level switch causes it to function when working dry, for example during cleaning and maintenance.

The speed inverter is in charge of the motor's protection, this inverter will have the usual alarms for overloading, phase fault or imbalance, faults at earth, overheating, torque excess, etc. The PLC can take charge of various attempts to reset and can send a notice before activating the general alarm.

In addition a GPS modem can be included that will send an SMS to the mobile telephone of the person in charge of maintenance, the owner of the system etc to notify in case of alarm, start-up etc. Complimentary items can be added to the base panel such as: measurement instruments, level relays, phase fault and sequence relays, double door cabinet etc.



MODEL	TECHNICAL CHARACTERISTICS							PRICE	
	SIZE OF CONTACTOR	TYPE OF THERMAL	THERMAL REGULATION	VOLTAGE	NUMBER PUMPS	KW	HP	Schneider Electric	LG LS
RES2VTH-01	2 de 6A	2 de 3,7	PROTECTION OF INVERTER	THREE PHASE 400 VAC	2	1,5	2	3.780 €	3.721 €
RES2VTH-02	2 de 10A	2 de 5,5				2,2	3	3.900 €	3.841 €
RES2VTH-03	2 de 16A	2 de 9				3	4	4.419 €	4.358 €
RES2VTH-04	2 de 16A	2 de 9				4	5,5	4.454 €	4.393 €
RES2VTH-05	2 de 20A	2 de 12,5				5,5	7,5	4.762 €	4.701 €
RES2VTH-06	2 de 25A	2 de 16,5				7,5	10	5.037 €	4.972 €
RES2VTH-07	2 de 32A	2 de 23				11	15	5.467 €	5.402 €
RES2VTH-08	2 de 40A	2 de 30				15	20	5.875 €	5.795 €
RES2VTH-09	2 de 50A	2 de 37				18,5	25	6.617 €	6.354 €
RES2VTH-10	2 de 63A	2 de 44				22	30	6.884 €	6.611 €

### MANUFACTURING COMPONENTS

1 GN Metal casing with plaque	1 Touch screen	2 Three position selectors
1 General switch	2 Electronic humidity relays	1 Force terminal
1 Extended command	14 24V 4 Contact relays	1 Control terminal
2 circuit breakers (MCB)	14 Contact base relays	3 Earth connection terminals
2 circuit breakers (MCB)	2 11 Pole base relays	5 PG Force presses
2 Speed inverters	1 40 W 230-24 Torodial transformer	5 PG Control presses
1 Automaton	1 Acoustic and light alarm 24 VAC	1 Ventilator
1 Power supply	6 Red pilot lights 230 VAC	2 Ventilation grilles
2 Analogue expansions	5 Green pilot lights 230 VAC	1 Synoptic
1 Alarm silencing button	2 Yellow pilot lights 230 VAC	1 Wiring

**“OUR OBJECTIVE IS TO ALWAYS  
OFFER YOU THE BEST GUARANTEES”**

All of this is possible thanks to some excellent systems and valuable workforce. We work from the production line of small panels up to the production of made to measure panels. We take pride in the personalisation and graphic finishing of our products. We have our own design department, plotter and printing; this sharpens the production as we can print customised manuals for each product etc. We have a personnel team made up of professionals in graphic design and marketing together with an engineering department that is capable of solving all type of electrical problems as well as developing any project in the programming of automatons.



**PRICES**

The prices in our pricelists are expressed in Euros and do not include taxes.

Our prices are either the ones indicated in the current pricelist or the prices shown in the corresponding offer, the pricelists can be modified at any moment without any given warning.

**ORDERS**

We would be grateful if all orders could be received, preferably by writing, fax or email. The order is considered accepted if our Customer Service does not pose any exceptions or conditions within 72 hours of the order being placed.

**SHIPMENT, TRANSPORT AND PACKAGING**

Our goods travel postage paid, throughout the mainland Spain, for orders above 600€, taxes not included. For figures lower than that indicated, a fixed net charge of 12€ will be added to the invoice. Goods ordered will be sent postage due, by the means of transport chosen by the client as well as any service outside of the mainland regardless of where and the total of the order.

Packaging

All goods will be sent in standard packaging. If goods due their volume, weight or special characteristics require special or wooden packaging, this packaging will be charged separately from the sales invoice.

Important

In the event of a claim due to breakdown, breakage or any cause attributable to the transport, this claim will not be accepted if it is not received accompanied by a corresponding claim from the haulage contractor.

**DELIVERY DATE**

Delivery dates are given in good faith as a guideline and there is no compensation for any delays that may occur. Orders may be supplied in parts, indicating in each case the situation of pending references (cancellation or pending with a new delivery date).

**GUARANTEES**

All our new systems and electric or electronic goods are legally guaranteed for 2 years, counting from the delivery date, against all construction faults and/or defects in their components or accessories. The delivery is considered carried out on the date indicated on the invoice or on the delivery note.

Items will not be included under the guarantee in cases of force majeure, wear and tear, improper handling or usage (E.g. Alteration of the control panel, inadequate electric or hydraulic connection, handling by unauthorised people etc.), not correctly following the instructions, poor conservation, inadequate usage, atmospheric phenomena, or any other fault or disruption not attributable to the systems, products or technical personnel.

The guarantee includes the repair of products recognised as faulty by our technical staff, any replacements remaining our property and there is no obligation for compensation. For the attention of returns and when necessary repairs under guarantee it will be necessary to present, along with the faulty goods, some proof of purchase such as a delivery note or corresponding invoice.

**RETURNS**

No return will be accepted without previous approval from the company's technical services in writing and they must always fulfil the following requirements:

Period- returns that exceed eight days since their shipment will not be accepted.

The material should be sent postage paid, correctly packaged in its original packaging or similar and accompanied with the invoice information or delivery note with the delivery date or with a delivery receipt from the haulage company.

In the case of a return for a reason not attributable to the company a depreciation of 10% for handling will be added to the payment.

**PAYMENT METHODS**

The first order will be paid by advanced transfer or cash on delivery. Once the client has been formalised on the database, depending on the total of the orders, the payments will be made by transfer with an expiry date of at least 90 days from the invoice date or date of receipt.

Orders up to 1000€ direct debit- expiry 30 days after invoice date

Orders between 1000€ and 3000€- expiry 60 days after invoice date

Orders above 3000€- expiry 90 days after invoice date

All totals are before taxes.

No extensions are permitted for holidays, stocktaking or any other reason that may arise. In the case that, exceptionally, an extension is necessary the invoice will be increased by 1% for 30 days of extension.

In the exceptional circumstance of accepting payment on promissory note the company will receive the payment promised within 20 days of the goods being delivered. In the event of the payments not being made within the aforementioned period the company will be authorised to issue a receipt with the expiry agreed on the invoice.

**CANCELLATION OF ORDERS**

In the case of the cancellation of already dispatched orders they will be treated in the same way as returns for reasons not attributable to the company. In the case of the cancellation of an order in the process of manufacture, the client will be billed and a sum of 10% of the original total of the order will be invoiced.

**LIABILITY**

The liability of our products expires when the guarantee runs out and the limit will be the price of the product or of the service required in the claim.

**JUDICIAL COMPETENCE**

To resolve any lawsuit that may derive from commercial relations, both the company and the client should agree to commit themselves to the courts of Zamora renouncing their own jurisdiction if it is another.

**NOTE**

These general sales conditions are considered agreed and accepted by all clients except if they have, exceptionally, negotiated other written conditions when formalising the order. These conditions can be varied at any moment, notifying the clients of such variations 15 days before they come into effect.

**ANGSER ELECTRIC SAL.**

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