Priority and sequence phase relays

Series PR

Function

Priority relays offer the possibility to limit the energy consumption in installations with a defined maximum power. This limitation is getting measuring the installation total current continuously and in the case consumption would be higher then fixed value, priority relay would disconnect the non-priority load.

Applications

In some installations the maximum power is limited by the contracted power with the electricity company. If this contracted power is surpassed, the main MCB of the installation opens. Priority relays are used in order to avoid the opening of the main MCB.
A similar case, for exemple, would be an installation where new loads would be added without changing the installation (cable sizes, MCB's...). In this case a priority relay will be installed before the non priority load that would be disconnected when the contracted or limited power is surpassed. Priority... disconnected. The priority relay will realise that the installation total load will come back to be lower than its..., the non priority load will come back to be connected.

Characteristics

Priority relay can work in nets with nominal power of 6 kW if we make a direct connection or higher if we use a current transformer to connect the priority relay to the net. In each case priority relay could be able to disconnect loads with a nominal power from 0 to 6kW or from 0% to 100% when current transformer is used.

Standard/Marking

IEC 61095 CE

Performance

	Priority Relay Series PR
Nominal Voltage Un	*230V*
Maximum nominal current	32A direct, 5A with current transformer
Nominal current	2...32A
Compact capacity	Pozidriv 1/2x2.5mm² or 1x6mm²
Contact type	NC or NO
Work temperature	-20...+55°C
Work area	0 to 7 kW
Fixed delay time	0.5sc
Isolation tension (contact-coil)	2.5 kV
Isolation class	II
IP	IP20
Electrical endurance	100,000 ops.
Mechanical endurance	1,000,000 ops.
Maximum changeover frequency	750 ops./h

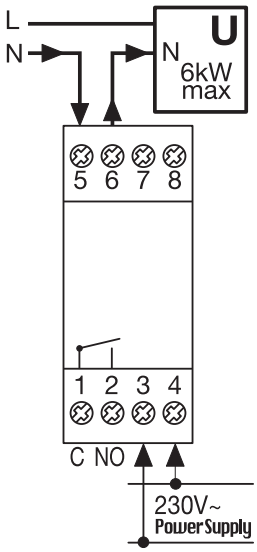
Series PR - Priority relay

1 NO

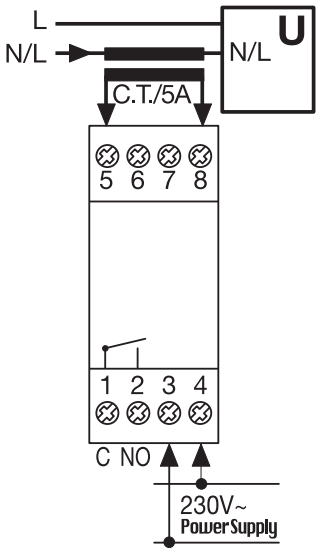
1 NC

Output number	Module number	Contact	Cat. No.	Ref. No.	Pack.
1	2	1NO	PRI 10	**666445**	1
1	2	1NC	PRI 01	**666446**	1

Direct insertion



C-T / 5A insertion



Controls and sequence phase relays

Functions number	Module number	Contact	Cat. No.	Ref. No.	Pack.
2	2	1CO	MTAP 3N2F	**666690**	1
4	3	1CO	MTAP 3N	**666433**	1

Functions	Min. voltage value range	Ref. No.
Phases sequence Phases presence	-	**666690**
Phases sequence Phases presence Neutral presence Min. voltage control	70-100%	**666433**