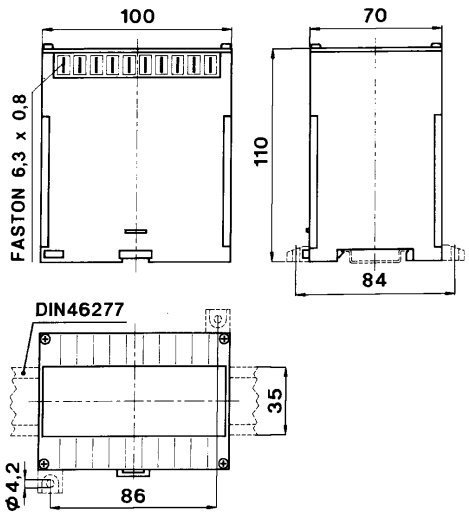
Transducer designed for Power Factor Measurement

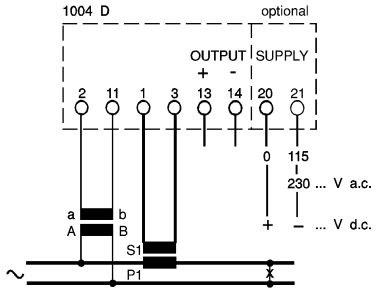


TECHNICAL DATA

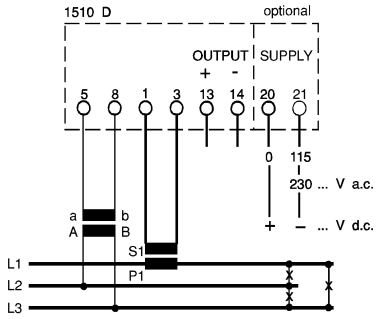
accuracy (class)	1%
frequency	50, 60 or 400 Hz
self-consumption per current path	0,5VA
self-consumption per voltage path	1,5VA
continuous overload	1,2 Un - 2 In
short-term overload	2 Un - 20 In
ripple	<1%
response time	<300ms
storage temperature	-30…+70°C
operating temperature	-10…+50°C
test voltage	2kV-50Hz-60s
surge test	5kV; 1,2/50µs
input range	20…120%
galvanic insulation of input, output and auxiliary voltage	

primary voltage:	100V/√3; 110V/√3; 100V; 110V; 230V; 250V; 400V; 440V				
primary current:	1A; 2,5A; 5A				
output:	±1mA	±5mA	±20mA	4 - 20mA	±10V
burden:	15kΩ	3000Ω	750Ω	750Ω	>2000Ω
scale:	*cap 0,5-1-0,5 ind* or *cap 0,8-1-0,2 ind*				

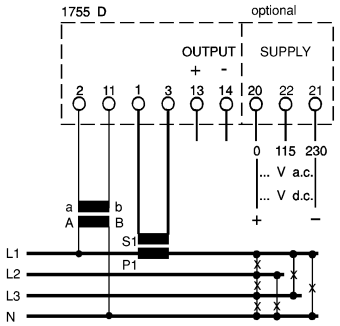
MCOPSL & MCOPS



MCOPYL & MCOPY



MCOPNL & MCOPN



transducer types with *linear output*	**Order Code**	
a.c. single phase	MCOPSL	
3-phase and 3-wires balanced load	MCOPYL	
3-phase and 4-wires balanced load	MCOPNL	
transducer types with *phase angle proportional output*		
a.c. single phase	MCOPS	
3-phase and 3-wires balanced load	MCOPY	
3-phase and 4-wires balanced load	MCOPN	

These transducers are designed for measurements of the power factor in single phase or 3-phase grids. For type MCOPSL, MCOPYL and MCOPNL the input signal is converted into an impressed output signal (D.C. current or D.C. voltage), which is proportional to the phase angle value.
For type MCOPS, MCOPY and MCOPN the output signal has to be linearized by a matching network.
Usually these transducers work self-supplied. The input range is between 90%-120% for voltage and 20%-120% for current.
If equipped with an additional auxiliary supply the input range extends to 20%-120% for both, voltage and current.

auxiliary voltage: 115V and 230V A.C. ±10% (3VA)
on demand: 24 - 400V A.C. (3VA); 24-48-110V D.C. -10 +20% (3W)
Transmission behavior: characteristic curve D, A, C or E

Order Information

- Order Code
- Primary Voltage
- Primary Current
- Auxiliary Voltage (on demand)
- Secondary Current or Voltage
- Frequency

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