



# FERRODYNAMIC POWER FACTOR METERS



## Serie "Classic"

The instruments are suitable for measuring power factor in single- or three-phase networks.

### Technical data

**Movement:** It is a cross-coiled ferrodynamic movement with spring bearings and oil damping. Due to the oil damping, the move of the pointer is free of vibration.

**Scale:** It can be read off directly in  $\cos\varphi$  and  $\varphi$ .  
Scale length: 120 mm.

**Class of accuracy:** 1,5 ~ of 90 degrees, according to IEC-51

**Operating range:**  $0,2xI_N \dots 1,2xI_N$

**Consumption:** current circuit: max. 12 VA.  
voltage circuit: max. 20 mA.

**Continuous overload:** 1.2x rated current at  $\cos\varphi=1$ .

**Safety:** IEC 1010/ EN 61010-1 class 2, degree of pollution 2., CAT III.

**Position of application:** horizontal.

**Weight:** approx. 1,8 kg.



TYPE	Cat. No. 1963-05-...	Class of acc.	Rated voltage			Remark
			Rated current AC	AC	Three-phase AC	
HFQa	001	1.5	1 A	100-220-380-500 V		i. 0.4-1-0.4 c.
	005		1 A	100-220-380-500 V		i. 0.2-1-0.8 c.
	002		5 A	100-220-380-500 V		i. 0.4-1-0.4 c.
	006		5 A	100-220-380-500 V		i. 0.2-1-0.8 c.
	003		1 A	100-240-400-500 V		i. 0.4-1-0.4 c.
	007		1 A	100-240-400-500 V		i. 0.2-1-0.8 c.
	004		5 A	100-240-400-500 V		i. 0.4-1-0.4 c.
	008		5 A	100-240-400-500 V		i. 0.2-1-0.8 c.
	010		1.5 A	100-240-400-500 V		i. 0.4-1-0.4 c.
	011		1.5 A	100-240-400-500 V		i. 0.2-1-0.8 c.
HFQb	036	1.5	10 A	100-240-400-500 V		i. 0.4-1-0.4 c.
	034		5 A	120-220-380-500 V		i. 0.4-1-0.4 c.
	009		5-10 A	150-300-450 V		i. 0.4-1-0.4 c.
	012		1 A		100-220-380-500 V	i. 0.4-1-0.4 c.
	016		1 A		100-220-380-500 V	i. 0.2-1-0.8 c.
	013		5 A		100-220-380-500 V	i. 0.4-1-0.4 c.
	017		5 A		100-220-380-500 V	i. 0.2-1-0.8 c.
	014		1 A		100-240-400-500 V	i. 0.4-1-0.4 c.
	018		1 A		100-240-400-500 V	i. 0.2-1-0.8 c.
	015		5 A		100-240-400-500 V	i. 0.4-1-0.4 c.
HFQa-b	019	1.5	5 A		100-240-400-500 V	i. 0.2-1-0.8 c.
	021		1-5 A		100-240-400-500 V	i. 0.4-1-0.4 c.
	022		1-5 A		100-240-400-500 V	i. 0.2-1-0.8 c.
	035		5 A		100-220-380-800 V	i. 0.4-1-0.4 c.
	020		5-10 A		150-300-450 V	i. 0.4-1-0.4 c.
	023		10 A		380 V	i. 0.4-1-0.4 c.
	024		1 A	150-300-450-600 V	150-300-450 V	i. 0.4-1-0.4 c.
	026		1 A	150-300-450-600 V	150-300-450 V	i. 0.2-1-0.8 c.
	025		5 A	150-300-450-600 V	150-300-450 V	i. 0.4-1-0.4 c.
	027		5 A	150-300-450-600 V	150-300-450 V	i. 0.2-1-0.8 c.
032	1-5 A	150-300-450-600 V	150-300-450 V	i. 0.4-1-0.4 c.		
033	1-5 A	150-300-450-600 V	150-300-450 V	i. 0.2-1-0.8 c.		
037	1-5-10 A	30-100-240-380 V	120-240-380 V	i. 0.4-1-0.4 c.		
038	1-5-10 A	30-100-240-380 V	120-240-380 V	i. 0.2-1-0.8 c.		
028	5-10 A	150-300-450-600 V	150-300-450 V	i. 0.4-1-0.4 c.		
029	5-10 A	150-300-450-600 V	150-300-450 V	i. 0.2-1-0.8 c.		
030	10 A	150-300-450-600 V	150-300-450 V	i. 0.4-1-0.4 c.		
031	10 A	150-300-450-600 V	150-300-450 V	i. 0.2-1-0.8 c.		

### Customers requirement:

- Portable ferrodynamic power factor meter.
- Range:
  - rated current: 5-10 A
  - rated voltage: 150-300-450V
  - Three-phase AC ind 0,4-1-cap 0,4.

### Ordering data:

- Portable ferrodynamic power factor meter.
- Type: HFQb.
- Cat. No. 1963-05-020

Scale: M=1:1

