

AKH-0.66/P Low-Voltage Protection Current Transformer



Application

- Low-voltage distribution and relay-protection circuits
- Short-circuit fault current detection
- Suitable for one or more busbars and protection devices such as ARD3T and ALP

Basic Parameters

Models	P-60III / P-80III / P-100III / P-130III / P-60x50II / P-80x50II / P-100x50II / P-120x50II / P-120x50II-H / P-130x50II / P-170x100II / P-220x50II
Primary current	100-6300 A
Secondary output	5 A or 1 A
Protection accuracy classes	5P or 10P
Accuracy limit factors	5 / 10 / 15 / 20, depending on model and current ratio
Rated load	1.5-30 VA, depending on model and current ratio
Rated operating voltage	AC 0.66 kV
Rated frequency	50-60 Hz

Product Feature

The AKH-0.66/P series is designed for relay-protection circuits with one or more busbars passing through the aperture. It detects short-circuit fault current for low-voltage distribution protection and offers 5P or 10P protection accuracy classes with selectable accuracy limit factors and apertures. It can be used with Acrel ARD3T motor protection units, ALP line protection devices and compatible protection relays such as ABB SPAJ140C. Select the exact current ratio, protection class, accuracy limit factor, rated load, busbar arrangement and installation type from the official model table.

Technical Indicators

- Rated operating voltage: AC 0.66 kV (equivalent to AC 0.69 kV according to GB 156-2017)
- Rated frequency: 50-60 Hz
- Ambient temperature: -30 °C to +70 °C
- Altitude: ≤ 3000 m
- Power-frequency withstand voltage: 3000 V / 1 min, 50 Hz
- Use where there is no direct rain or snow, severe pollution or violent vibration
- The equipment rated current or maximum line load current should not exceed 2/3 of the CT rated primary current
- Never leave the secondary circuit open during use; S2 must be grounded

Dimensions

Dimensions

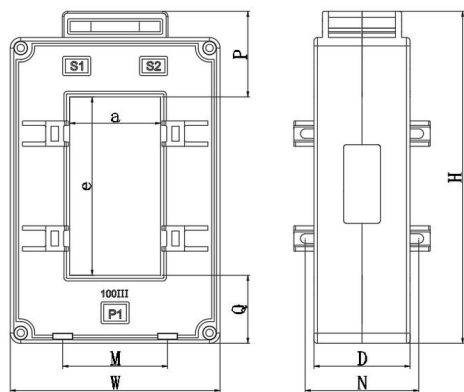


Fig. 1

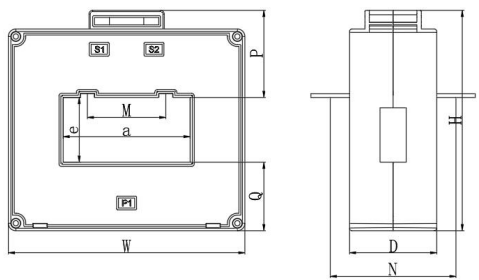


Fig. 2

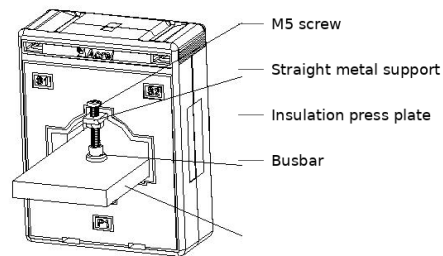
Model	W	H	D	P	Q	a	e	M	N	Fig.	Tol.
P-60III	117	147	55	47.5	37.5	52	62	60	65	Fig. 1	+/-2
P-80III	117	167	55	47.5	37.5	52	82	60	65	Fig. 1	+/-2
P-100III	120	190	55	49	39	52	102	60	65	Fig. 1	+/-2
P-130III	125	224	55	51	41	52	132	60	65	Fig. 1	+/-2
P-60x50II	112	177	70	70	55	62	52	/	110	Fig. 2	+/-2
P-80x50II	132	177	70	70	55	82	52	/	110	Fig. 2	+/-2
P-100x50II	190	177	70	70	55	102	52	63	110	Fig. 2	+/-2
P-120x50II	219	217	90	76	61	130	80	64	110	Fig. 2	+/-2
P-120x50II-H	201	177	75	70	55.5	121.5	51.5	42/42	85	Fig. 2	+/-2
P-130x50II	220	177	75	70	55	131	51	63	110	Fig. 2	+/-2
P-170x100II	227	230	60	70	55	172	105	103	83	Fig. 2	+/-3
P-220x50II	280	190	60	73.5	61.5	225	55	45/60/45	83	Fig. 2	+/-3

All dimensions are in millimetres. Values are translated directly from the current H006 specification.

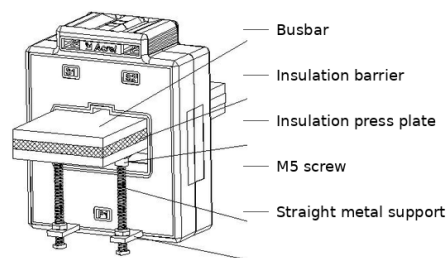
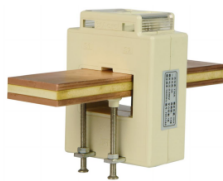
Installation Types

Installation Instruction

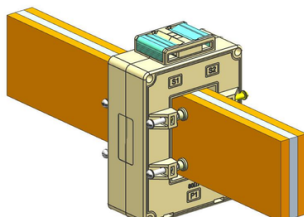
Type C — busbar clamping installation



Type D — multi-busbar clamping installation



Type E — internal support installation



Official installation illustration from the current H006 specification.
Refer to the selected model row for installation type C, D or E.

Protection Class and Rated Load

The following values are transcribed from the current H006 5P and 10P specifications. A paired header such as 5P10 / 10P10 means the same official numeric load applies to the corresponding 5P and 10P class columns in the two current editions. A dash means the combination is not listed.

AKH-0.66/P Series — Protection Class and Rated Load

Model	Rated current ratio (A)	5P5 / 10P5 (VA)	5P10 / 10P10 (VA)	5P15 / 10P15 (VA)	5P20 / 10P20 (VA)	Turns	Busbar (mm) / quantity	Inst.
P-60III	200-250/5(1)	5	-	-	-	1	10x60 / 1-3	E
	300-500/5(1)	5	2.5	-	-	1	10x60 / 1-3	E
	600-1500/5(1)	10	5	2.5	-	1	10x60 / 1-3	E
P-80III	500-600/5(1)	5	2.5	-	-	1	10x80 / 1-3	E
	800-1250/5(1)	10	5	-	-	1	10x80 / 1-3	E
	1500/5(1)	10	5	2.5	-	1	10x80 / 1-3	E
	2000-3000/5(1)	15	10	2.5	-	1	10x80 / 1-3	E
	P-100III	600/5(1)	5	2.5	-	1	10x100 / 1-3	E
	800-1250/5(1)	10	5	-	-	1	10x100 / 1-3	E
	1500/5(1)	10	5	2.5	-	1	10x100 / 1-3	E
	2000-3000/5(1)	15	10	2.5	-	1	10x100 / 1-3	E
	P-130III	1000/5(1)	15	10	2.5	1	10x130 or 10x125 / 1-3	E
	1200-1250/5(1)	15	10	5	-	1	10x130 or 10x125 / 1-3	E
	1500-2000/5(1)	20	10	5	-	1	10x130 or 10x125 / 1-3	E
	2500-3000/5(1)	30	15	5	-	1	10x130 or 10x125 / 1-3	E
	4000-5000/5(1)	30	15	2.5	-	1	10x130 or 10x125 / 1-3	E

Source values: current H006 5P and H006 10P specifications. '-' = combination not listed.

AKH-0.66/P Series — Protection Class and Rated Load

Model	Rated current ratio (A)	5P5 / 10P5 (VA)	5P10 / 10P10 (VA)	5P15 / 10P15 (VA)	5P20 / 10P20 (VA)	Turns	Busbar (mm) / quantity	Inst.
P-60x50II	100/5(1)	2.5	-	-	-	1	60x10 / 1-3	C
	150/5(1)	2.5	1.5	-	-	1	60x10 / 1-3	C
	200/5(1)	5	1.5	-	-	1	60x10 / 1-3	C
	300/5(1)	5	2.5	-	-	1	60x10 / 1-3	C
	400/5(1)	10	2.5	-	-	1	60x10 / 1-3	C
	500-800/5(1)	10	5	2.5	-	1	60x10 / 1-3	C
	1000-2000/5(1)	15	10	5	2.5	1	60x10 / 1-3	C
P-80x50II	200-300/5(1)	5	2.5	-	-	1	80x10 / 1-3	C
	400-600/5(1)	10	5	2.5	-	1	80x10 / 1-3	C
	1000/5(1)	15	10	5	-	1	80x10 / 1-3	C
	1200-2000/5(1)	15	10	5	2.5	1	80x10 / 1-3	C
	2500/5(1)	20	15	10	5	1	80x10 / 1-3	C
P-100x50II	600-800/5(1)	10	5	2.5	-	1	100x10 / 1-3	C
	1000-1500/5(1)	15	10	5	2.5	1	100x10 / 1-3	C
	2000-4000/5(1)	20	15	10	5	1	100x10 / 1-3	C

Source values: current H006 5P and H006 10P specifications. '-' = combination not listed.

AKH-0.66/P Series — Protection Class and Rated Load

Model	Rated current ratio (A)	5P5 / 10P5 (VA)	5P10 / 10P10 (VA)	5P15 / 10P15 (VA)	5P20 / 10P20 (VA)	Turns	Busbar (mm) / quantity	Inst.
P-120x50II	600-800/5(1)	10	5	2.5	-	1	120/125/130x10 / 1-3	C
	1000-1250/5(1)	15	10	5	2.5	1	120/125/130x10 / 1-3	C
	1500/5(1)	20	15	5	2.5	1	120/125/130x10 / 1-3	C
	2000-2500/5(1)	20	15	10	5	1	120/125/130x10 / 1-3	C
	3000-5000/5(1)	30	15	10	5	1	120/125/130x10 / 1-3	C
P-120x50II-H	600-800/5(1)	10	5	2.5	-	1	120x10 / 1-3	C
	1000-1250/5(1)	15	10	5	2.5	1	120x10 / 1-3	C
	1500/5(1)	20	15	5	2.5	1	120x10 / 1-3	C
	2000-2500/5(1)	20	15	10	5	1	120x10 / 1-3	C
	3000-5000/5(1)	30	15	10	5	1	120x10 / 1-3	C
P-130x50II	600-800/5(1)	10	5	2.5	-	1	120/125/130x10 / 1-3	C
	1000-1250/5(1)	15	10	5	2.5	1	120/125/130x10 / 1-3	C
	1500/5(1)	20	15	5	2.5	1	120/125/130x10 / 1-3	C
	2000-2500/5(1)	20	15	10	5	1	120/125/130x10 / 1-3	C
	3000-5000/5(1)	30	15	10	5	1	120/125/130x10 / 1-3	C

Source values: current H006 5P and H006 10P specifications. '-' = combination not listed.

AKH-0.66/P Series — Protection Class and Rated Load

Model	Rated current ratio (A)	5P5 / 10P5 (VA)	5P10 / 10P10 (VA)	5P15 / 10P15 (VA)	5P20 / 10P20 (VA)	Turns	Busbar (mm) / quantity	Inst.
P-170x100II	1000-1250/5(1)	10	5	2.5	-	1	130/150x10 / 1-5	D
	1500-2000/5(1)	15	10	5	-	1	130/150x10 / 1-5	D
	2500-3000/5(1)	20	15	5	-	1	130/150x10 / 1-5	D
	4000-6000/5(1)	30	15	10	2.5	1	130/150x10 / 1-5	D
P-220x50II	1000/5(1)	15	10	2.5	-	1	200x10/1-3; 100x10/4-6	D
	1250-2000/5(1)	15	10	5	-	1	200x10/1-3; 100x10/4-6	D
	2500-3000/5(1)	20	10	5	2.5	1	200x10/1-3; 100x10/4-6	D
	4000-6300/5(1)	30	15	10	5	1	200x10/1-3; 100x10/4-6	D

Source values: current H006 5P and H006 10P specifications. '-' = combination not listed.

Selection and Safety Notes

- Select the exact model by current ratio, protection class, accuracy limit factor, rated load, aperture, busbar quantity and installation type.
- Do not select only from the series-wide 100-6300 A summary range; use the model table for the valid combinations.
- The current H006 source provides installation types C, D and E according to model.
- Do not leave the CT secondary circuit open while primary current is present. Ground S2 as specified.

Prepared from the current H006 5P and 10P official specifications. No third-party sales contact information is included.