

TH-AX

- POWER CONTROLLERS
WITH RATED VOLTAGE FROM 24 V
- WITH POWER CONNECTIONS FROM
THE TOP AND/OR BOTTOM



FEATURES

POWER DESCRIPTION

TH-AX

The TH-AX line manages voltages from 24 to 600 V with a current 16 to 1.500 A in a single product, single phase, three phase pure and with passing phase. Flexible Connection technology enables power connections from the top and from the bottom, in all combinations desirable, allowing exceptional ergonomics in the realization of the electrical panel.

AE is the first manufacturer to use a graphical touchscreen display in a power controller, allowing to significantly increase the operational simplicity.

There are new options to simplify the display and parameterization.

All parameters are shown in text, while further operator messages are indicated by changes in the display backlight.

In addition to the standard communication interfaces, are now present Ethernet and USB ports.

Via the USB port is possible to parameterize TH-AX also with device switched off.

Alternatively, are possible parameterization and display by the browser.

GENERAL

Rated voltage	From 24 to 253(230), 440(400), 550(500), 660(600) VAC
Rated current	16, 30, 45, 60, 100, 130, 170, 230, 280, 350, 495, 650, 1000, 1400, 1500 A
Auxiliary supply	100... 240 VAC
Functioning mode	Pulse full wave at variable cycle time (mode TAKT), half-wave pulses without component, QUICK continues TAKT (QTM - 1AX only), phase angle (no 2AX) (VAR mode)
Inputs	2 x 0/4...20 mA (Ri 250 Ω), 0/1...5 V (Ri 44 k Ω), 0/2...10 V (Ri 88 k Ω), potentiometer: 5...10 k Ω
Outputs	3 analog outputs for retransmission
Protection	Ultra-rapid fuse
Touch screen	Two color
Diagnostics	From the display - direct check of fuses rupture
Type of load	Resistive, with transformer, at high temperature coefficient (6:1) Rh/Rc
Power circuit connection	Single phase (1AX), three-phase with 2 controlled phases (2AX), with 3 controlled phases (3AX)
Additional functions	Learning load resistance (teach-in) Wizard Configuration (Easy Start) Data logger with RTC (64 events)
Operating temperature	Up to + 40°C (natural ventilation or forced cooling) - Water cooling setting
Serial communication (optional)	Modbus RTU, PROFIBUS DPV1, Ethernet, CANopen, DeviceNet
Dimensions	(W x H x D): from 45 x 199 x 190 to 110 x 276 x 235 mm depending on the model
Compliance	UL approval under test

HOW TO ORDER

To compose the part number, pls. choose one of the option for each variable

TH- VERSION	CODE
Single Phase Operating modes: TAKT, VAR, QTM, SWITCH	1A
Three-phase connection passing phase Operating Mode: TAKT, SWITCH	2A
Three-phase pure Operating modes: TAKT, VAR, SWITCH	3A
RATED VOLTAGE	
24... 253 V	230
24... 440 V	400
24... 550 V	500
24... 660 V	600
RATED CURRENT	
Pls. specify a value between 16 and 1500 A	----
TYPE	
Standard functions + integrated ultra-rapid fuses + alarm relay + load monitoring, including retransmission outputs for power control	HRLP2
Standard functions as HRLP2 but with forced ventilation	HFRLP2

Note: NOT all combinations are possible.

For more details please contact our sales department.

TECHNICAL DATA TH-1AX

CUR- RENT (A)	POWER (KW)				DIMENSIONS			WGH (KG)	FUSE F1
	230 V	400 V	500 V	600 V	L	A	P		
16	3	6	8	-	45	196	193	1.1	20
30	7	12	15	-	45	196	193	1.1	40
45	10	18	22	27	52	276	238	2.2	63
60	14	24	30	36	52	276	238	2.2	80
100	23	40	50	60	54	276	238	2.8	200
130	30	52	65	78	129	361	283	7.8	200
170	39	68	85	102	129	361	283	7.8	315
230	53	92	115	-	129	373	283	8.3	315
240	-	-	-	138	129	373	283	8.3	315
280	64	112	140	168	129	373	283	8.3	350
350	80	140	175	210	129	373	283	8.3	500
1000	-	400	-	-	285	550	565	33.5	2 X 1000
1400	-	-	500	600	285	550	565	33.5	4 X 900
1500	-	600	700	840	285	550	565	33.5	4 X 900

TECHNICAL DATA TH-2AX

CUR- RENT (A)	POWER (KW)			DIMENSIONS			WGH (KG)	FUSE F1
	400 V	500 V	600 V	L	A	P		
16	11	14	-	90	196	193	2.2	20
30	21	26	-	90	196	193	2.2	40
45	31	39	47	108	276	238	4.4	63
60	41	52	62	108	276	238	4.4	80
100	69	86	104	110.2	276	238	5.6	200
130	90	112	135	250	361	283	15.6	200
170	117	147	176	250	361	283	15.6	315
230	159	199	-	250	373	283	16.6	315
240	194	-	239	250	373	283	16.6	315
280	242	242	-	250	373	283	16.6	350
350	693	303	363	452	373	283	16.6	500
1000	-	866	1039	452	550	565	53	2 X 1000
1400	-	1212	1455	452	550	565	53	4 X 900
1500	1039	-	-	452	550	565	53	4 X 900

TECHNICAL DATA TH-3AX

CUR- RENT (A)	POWER (KW)			DIMENSIONS			WGH (KG)	FUSE F1
	400 V	500 V	600 V	L	A	P		
16	11	14	-	135	196	193	3.3	20
30	21	26	-	135	196	193	3.3	40
45	31	39	47	164	276	238	6.6	63
60	41	52	62	164	276	238	6.6	80
100	69	86	104	164	276	238	8.4	200
130	90	112	135	375	361	283	23.4	200
170	118	147	176	375	361	283	23.4	315
230	159	199	-	375	373	283	24.9	315
240	194	-	239	375	373	283	24.9	315
280	242	242	291	375	373	283	24.9	350
350	693	303	363	375	373	283	24.9	500
1000	-	866	1039	618	550	565	72	2 X 1000
1400	-	1212	1455	618	550	565	72	4 X 900
1500	1040	-	-	618	550	565	72	4 X 900