

7100A

E EUROTHERM

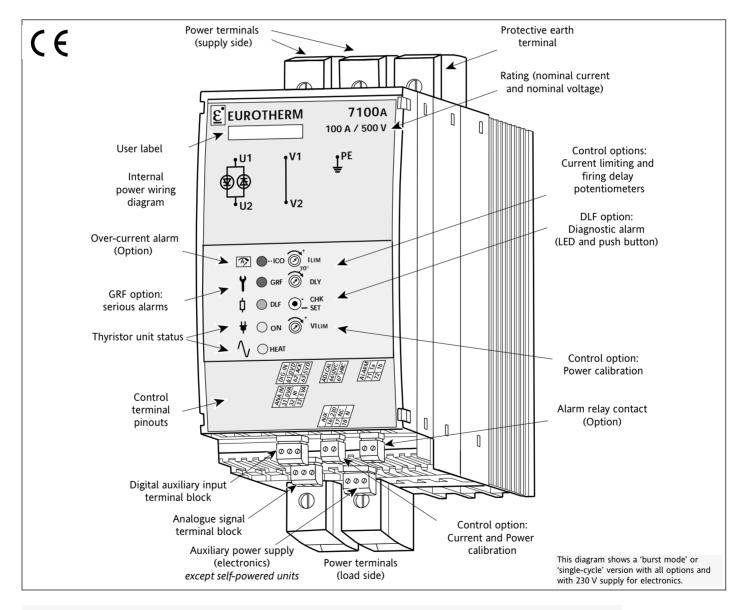
Single-phase thyristor units (≤ 100 A) GENERAL PRESENTATION

IDENTIFICATION

The 7100A series of power thyristor units can control all types of single phase electric load using 'Phase angle' mode or zero-crossing firing ('Burst mode' or 'Single-cycle mode'). For current ratings up to 100 A, the 7100A units comprise two channels, one controlled by the thyristor (U1 - U2) and one direct internal channel (V1 - V2).

These units are available with an extensive choice of current rating, supply type (including self-powered directly from the supply network) and firing type as well as numerous options to match all user requirements.

The options include selection of the control mode, current limiting as well as alarms to diagnose and signal the status of the thyristors and the load as well as over-temperatures or over-currents.



OPTIONS

The following options are available on 7100A series power thyristor units:

- current limiting, power calibration and various control modes,
- transient limiting by delaying the first thyristor firing and by using a safety ramp.

7100A series power thyristor units can optionally signal the following alarms:

- serious alarms (thyristor short circuit, total load failure)
- · load fault diagnosis and monitoring
- over-temperature (for fan-cooled units with current rating ≥ 125 A)
- over-current (for 'burst mode' or 'single-cycle' operation)



TECHNICAL SPECIFICATIONS

Type 1 alarms (Options)

Power Nominal current 16 A to 630 A at 45 °C (see order code) Nominal voltage 100 V to 690 V (see order code). Frequency Use from 47 to 63 Hz Dissipated power 1,3 W (approx.) per amp. Cooling Ratings ≤ 100 A: Natural convection Ratings ≥ 125 A: Fan-cooled 115 V or 230 V fan, consumption 10 VA Load Single-phase industrial load: Resistive load with low or high temperature coefficient. Short wave infrared elements, Transformer primary. Control Self-powered from supply network or Supply external (115 V or 230 V +10%; -15%) depending on order code. Consumption: 10 VA. Control type Analogue (optional digital communication) • Remote analogue setpoint: 0-5 V or 0-10 V (100 $k\Omega \approx input$), 0-20 mA or 4-20 mA (250 Ω input) • Potentiometer for manual setpoint (5 V supply available). Firing mode · 'Burst mode' Firing at zero crossings base time: 16 or 64 cycles • 'Single-cycle' : base time 1 cycle · Advanced single-cycle': base firing time 1 cycle; non conduction by half-cycles. Firing angle variation · 'Phase angle' Control Control parameter • Standard: Load voltage squared (V2) • Option: - Apparent power $(V \times I)$ - Load current squared (I2) - Open loop. Linearity and Stability Better than $\pm 2\%$ of full scale. Current limit Option, depending on firing mode: Phase angle: Automatic control transfer - from V2 to I2 or - from $V \times I$ to I^2 with current recalibration set by potentiometer on front panel. · 'Burst mode' 16 cycle base: Current limited by threshold set using potentiometer on front panel. A control signal is available in V × I and I² to adjust the limit and perform maintenance. Transient current limit Option for transformer primary control in burst mode firing: · Safety firing angle ramp on first firing. · First firing delay adjustable using potentiometer on front panel. **Emitted interference** Internal EMC filter for 'burst mode':

ratings ≤ 40 A: standard

ratings 63 A to 100 A: optional.

Type 1 alarms (Options)	
Serious alarms	Total load failure and thyristor short
(GRF option)	circuit detection.
	Signalled by red 'GRF' LED and alarm
	relay contact.
Diagnostic alarm	Partial load failure detection.
(DLF option)	Signalled by orange 'DLF' LED and alarm
•	relay contact.
	The DLF option includes serious alarm
	monitoring.
	Settings: Monitoring diagnosis, alarm
	adjustment and resetting using push
	button on front panel
	Sensitivity: Detects the failure of at least
	one heating element for six identical
	elements connected in parallel.
Over-temperature alarm	For all fan-cooled units (≥125 A) operation
Over-temperature aiai iii	stops if the temperature threshold is
	exceeded
	Signalled by red 'To' LED and alarm relay
	(if GRF or DLF option selected).
Type 2 alarms (Option)	
Over-current alarm	Operation stopped if current threshold
(ICO Chop Off option)	exceeded.
	Only available with zero crossing firing
	and <i>DLF</i> option (except for <i>short wave</i>
	infrared elements, transformers and
	codes VICL and V2CL).
	Alarm threshold adjustable from 20 to
	100% using potentiometer on front panel.
	Signalled by red 'ICO' LED and alarm
	relay contact.
Alarm relay	Available with alarm options.
	The relay contact (0.25 A/230 Vac; 32 Vdc)
	is either open on alarm or closed on alarm
	is either open on alarm or closed on alarm depending on the product code.
Communication	depending on the product code.
Communication	
Environment	depending on the product code. Available later.
Environment Use	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m.
Environment Use Storage	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C.
Environment Use Storage Pollution	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664).
Environment Use Storage	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664). RH 5% to 95%, non-condensing,
Environment Use Storage Pollution Humidity	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664). RH 5% to 95%, non-condensing, non-streaming.
Environment Use Storage Pollution	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664). RH 5% to 95%, non-condensing, non-streaming. IP20 without adding additional protection.
Environment Use Storage Pollution Humidity Protection	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664). RH 5% to 95%, non-condensing, non-streaming. IP20 without adding additional protection. Overvoltage category 3 (defined by IEC 664).
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Environment Use Storage Pollution Humidity Protection Thyristor protection Signalling	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664). RH 5% to 95%, non-condensing, non-streaming. IP20 without adding additional protection. Overvoltage category 3 (defined by IEC 664). Varistor and RC snubber. High speed fuse: • rating ≤ 100 A: external • rating ≥ 125 A: internal. No fuse for short wave infrared elements in firing at zero crossings or in phase angle firing mode without current limit. Electronics supply present: green 'ON' LED. Thyristor firing request: green 'HEAT' LED.
Environment Use Storage Pollution Humidity Protection Thyristor protection	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664). RH 5% to 95%, non-condensing, non-streaming. IP20 without adding additional protection. Overvoltage category 3 (defined by IEC 664). Varistor and RC snubber. High speed fuse: • rating ≤ 100 A: external • rating ≥ 125 A: internal. No fuse for short wave infrared elements in firing at zero crossings or in phase angle firing mode without current limit. Electronics supply present: green 'ON' LED. Thyristor firing request: green 'HEAT' LED. Complies with the essential requirements
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Environment Use Storage Pollution Humidity Protection Thyristor protection Signalling CE labelling	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664). RH 5% to 95%, non-condensing, non-streaming. IP20 without adding additional protection. Overvoltage category 3 (defined by IEC 664). Varistor and RC snubber. High speed fuse: • rating ≤ 100 A: external • rating ≥ 125 A: internal. No fuse for short wave infrared elements in firing at zero crossings or in phase angle firing mode without current limit. Electronics supply present: green 'ON' LED. Thyristor firing request: green 'HEAT' LED. Complies with the essential requirements of the European Low Voltage Directive 73/23 EEC (93/68 EEC).
Environment Use Storage Pollution Humidity Protection Thyristor protection Signalling	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664). RH 5% to 95%, non-condensing, non-streaming. IP20 without adding additional protection. Overvoltage category 3 (defined by IEC 664). Varistor and RC snubber. High speed fuse: • rating ≤ 100 A: external • rating ≥ 125 A: internal. No fuse for short wave infrared elements in firing at zero crossings or in phase angle firing mode without current limit. Electronics supply present: green 'ON' LED. Thyristor firing request: green 'HEAT' LED. Complies with the essential requirements of the European Low Voltage Directive 73/23 EEC (93/68 EEC). Complies with EMC standard tests,
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Environment Use Storage Pollution Humidity Protection Thyristor protection Signalling CE labelling	depending on the product code. Available later. 0°C to 45°C at max. altitude of 2000 m10°C to 70°C. Degree 2 acceptable (defined by IEC 664). RH 5% to 95%, non-condensing, non-streaming. IP20 without adding additional protection. Overvoltage category 3 (defined by IEC 664). Varistor and RC snubber. High speed fuse: • rating ≤ 100 A: external • rating ≥ 125 A: internal. No fuse for short wave infrared elements in firing at zero crossings or in phase angle firing mode without current limit. Electronics supply present: green 'ON' LED. Thyristor firing request: green 'HEAT' LED. Complies with the essential requirements of the European Low Voltage Directive 73/23 EEC (93/68 EEC). Complies with EMC standard tests, enabling systems which incorporate

respect to the 7100A products.

Dimensions

reduction

CODES (see coding):

A Options: V2, OL, XFMR

B Options: DLF, GRF, I2, V2I2, V2CL

C Options: ICO, VICL, VII2, DLF/GRF + I2, DLF/GRF + V2I2, DLF/GRF + V2CL

Rating Height	Width (mm)		Depth (mm)			Max.		
(A)	(mm)	Basic or A Options			Basic or A Options	B Options or A + B	C Options or A + C	weight (kg)
16 to 40	156	52.5	52.5	70	193	218	238	0.8
63	156	70	70	70	213	238	238	1.9
80 and 100	226	96	96	96	215	243	243	2.2

		Ratings	Basic selection	Options
Coding:	7100A	1 / 2 / 3 / 4 /	5 / 6 / 7 / 8 / 9 / 10 / 1	11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19

Ratings

0	
1. Nominal current	Code
16 amps	16A
25 amps	25A
40 amps	40A
63 amps	63A
80 amps	80A
100 amps	100A
125 amps	125A*
160 amps	160A*
200 amps	200A*
250 amps	250A*
315 amps	315A*
400 amps	400A*
500 amps	500A*
630 amps	630A*

2.	Nominal voltage	Code
	100 volts	100V
	115 volts	115V
	120 volts	120V
	127 volts	127V
	200 volts	200V
	230 volts	230V
l	277 volts	277V
	400 volts	400V
	460 volts	460V
	480 volts	480V
l	500 volts	500V
Ì	690 volts	690V*
1		

3. Power supply for electronics	Code
Self-powered	
(100 V to 500 V only)	SELF
External 115 V supply	115V
External 230 V supply	230V

4. Fan power supply	Code
≤ 100A: No fan	XXXX
≥ 125A:	
- 115 V fan and 115 V or SELF	
electronics	115V
- 230 V fan and 230 V or SELF	
electronics	230V

Basic selection

5. Thyristor fuse	Code
Fuse without fuse blown microswitch	FUSE
Fuse with fuse blown microswitch	MSFU
No fuse (short wave infrared elements)	NONE

6. Firing mode	Code
'Phase angle'	PA
'Burst mode':	
base time 16 cycles	C16
base time 64 cycles	C64
<i>'Single-cycle'</i> : 1 base cycle	FC1
'Advanced single-cycle': 1 base cycle	
non-firing by half cycles	ASC

Code
XXXX
FILT
FILT
NONE

8. Input		Code
	from 0 mA to 20 mA	0mA20
voltage	from 4 mA to 20 mA from 0 V to 5 V from 0 V to 10 V	4mA20 0V5 0V10

9. Manual language	Code
French	FRA
English	ENG
German *	GER

10. Selected options	Code
Base version: No options, Standard V ² control End of code	NONE
Version with options: Selection of options	YES

Options for Phase Angle firing

11. Control options	Code
Voltage control (V ²) Current control (I ²)	V2 I2
Current limit by control transfer (V^2 to I^2) Current limit by control transfer ($V \times I$ to I^2)	V2I2 VII2
Open loop	OL

12. Delay on first firing	Code
No delay on first firing	XXXX

13. Type 1 alarms	Code
Serious Alarms: thyristor short-circuit, total load failure,	
over-temperature for ratings ≥ 125 A	GRF
Partial load failure and Serious Alarms	DLF
No alarms	NONE

14. Load type	Code
With DLF option: Short wave infrared elements Low temperature coefficient load	SWIR LTCL
Without DLF option or High temperature coefficient load	XXXX

15. Type 2 alarms	Code
No over-current alarm	XXXX

16. Alarm relay con	ntact	Code
With alarm option:	Contact closed on alarm Contact open on alarm	NC NO
Without alarm option	1	XX

Options for Burst / Single-Cycle firing

11. Control options	Code
Voltage control (V²)	V2
Burst firing C16 only:	
Voltage control (V²) and current limit	V2CL
Power control (V×I) and current limit	VICL

12. Delay on first firing	Code
Burst firing C16 or C64: Transformer primary Other configurations	XFMR NONE
Single-cycle (FC1/ASC)	xxxx

13. Type 1 alarms	Code
Serious Alarms: thyristor short-circuit, total load failure,	
over-temperature for ratings ≥ 125 A	GRF
Partial load failure and Serious Alarms	DLF
No alarms	NONE

14. Load type	Code
With DLF option: Short wave infrared elements Low temperature coefficient load	SWIR LTCL
Without DLF option or High temperature coefficient load	XXXX

15. Type 2 alarms	Code
Over-current alarm (for DLF option)	
except codes: SWIR, XFMR, VICL and V2CL	ICO
No over-current alarm	NONE

16. Alarm relay contact		Code
With alarm option:	Contact closed on alarm Contact open on alarm	NC NO
Without alarm option	=	XX

Communication and Certification

17 / 18 Communication options *	
Available later	NONE

19. Certification option	Code
No certificate of 'Compliance with Order'	NONE
Certificate of 'Compliance with Order'	CFMC

SAFETY DURING USE

• Eurotherm Limited shall not be held responsible for any damage, injury, losses or expenses caused by inappropriate use of the product or failure to comply with this manual. • The protective earth must be connected before any other connections are made and should be the last cable to be disconnected.

• The high speed fuse merely protects the thyristors. A suitable device must be fitted to protect the installation and isolate it from the supply, in accordance with applicable standards • The user must not attempt to access internal parts. Disconnect the unit before disassembling.

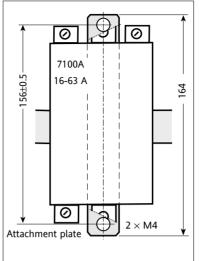
• Avoid touching the heatsink when the unit is operating and for 15 minutes after shutting down.

MOUNTING using attachment plate

Leave a gap of at least 10 mm between adjacent units. Arrange units such that air from one unit is not drawn in by the unit above.

Mounting type: DIN rail or bulkhead mounting (≥ 125A bulkhead mounting only).

Rating	Attachment	Mounting	
Α	plate	Symmetric DIN rails	Bulkhead
		EN 50022 rails	Attachment screws
16 to 63	1 vertical plate	1 rail	2 × M4
80 and 100	2 horizontal plates	2 rails	4 × M4



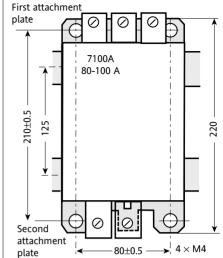
Control

connector

pinouts

Analogue signal

connector



WIRING

Power terminals (cage terminals): supply: U1 and V1; load: U2 and V2; protective earth: PE

Rating	Terminal capacity	Tightening torque
A	mm² / AWG	Nm
16 to 25	2.5 /13 to 6 / 9	1.2
40 to 63	6 / 9 to 16 / 5	1.8
80 to 100	16 / 5 to 35 / 2	3.8

The cross-section of conductors must correspond to the IEC 943 standard.

Control terminals

Terminal	Terminal			
block	No.	Label	Purpose	
ANA.IN	31	0VA	0 V analogue signal	Base
	32	RI	+ analogue signal	
	33	5VA	5 V user supply	
AUX	16	230	Auxiliary 230 V	
	17	115	or 115 V supply	
	18	N	Neutral or 2 nd phase	
DIG.IN	61	0VD	0 V logic signal	
	62	ACK	Acknowledgement	Alarm
	63	5VD	5 V user supply	Options
ALARM	71	1a	Alarm relay	_
	72	1b	contacts	
ADJ.CAL	66	0VC	0 V calibration	VI**
	67	HRC	Calibration control	options

Capacity of ANA.IN; DIG.IN; ADJ/CAL terminals: 1.5 mm² / 16 AWG; tightening torque: 0.5 Nm.

Capacity of AUX; ALARM terminals:

2.5 mm² / 14 AWG; tightening torque: 0.7 Nm

CONNECTION DIAGRAM To supply network Protection and isolation fitted by user Thyristor protection fuse (external for ratings ≤ 100 A) Protective earth E EUROTHERM 7100A 100 A / 500 V Current limit and Internal power firing delay wiring diagram potentiometers (Options) Alarm DLF alarm (option) options diagnostic and setting push button Electronics supply present 0 Oon Power calibration Firing request potentiometer

Fuse without microswitch reference (code FUSE)

Fuse	With fuse-holder	/ Dimensions (mm) H x W x D
CH260024	FU1038/16A	81 x 17,5 x 94
CH260034	FU1038/25A	81 x 17,5 x 94
CH330054	FU1451/40A	97 x 26,5 x 86
CS173087U080	FU2258/63A	128 x 35 x 90
CS173087U100	FU2258/80A	128 x 35 x 90
CS173246U125	FU2760/100A	240 x 38 x 107
	CH260024 CH260034 CH330054 CS173087U080 CS173087U100	CH260024 FU1038/16A CH260034 FU1038/25A CH330054 FU1451/40A CS173087U080 FU2258/63A CS173087U100 FU2258/80A

Fuse with microswitch reference (code MSFU)

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Rating	Fuse	With fuse-holder	/ Dimensions (mm) H x W x D
16 A	CS176513U020	MSFU1451/16A	110 x 26,5 x 94
25 A	CS176513U032	MSFU1451/25A	110 x 26,5 x 94
40 A	CS176513U050	MSFU1451/40A	110 x 26,5 x 94
63 A	CS176461U080	MSFU2258/63A	127,5 x 35 x 96,5
80 A	CS176461U100	MSFU2258/80A	127,5 x 35 x 96,5
100 A	CS173246U125	MSFU2760/100A	240 x 53 x 107

To single phase load

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Alarm relay contact

(with alarm option)

230 V or 115 V power supply

for electronics

(except self-powered versions)

7100A Thyristor Unit Presentation Part No: HA176555ENG - Issue 1.0 - 09/2001