

7100A

MODEL



Single Phase Thyristor Units for all Load types

Features:

- **Current range; from 16 to 630 amps at 45°C**
- **Voltage up to 690V**
- **Inputs**
 - current:
0-20mA or 4-20mA
 - voltage:
0-5V or 0-10V
- **Firing modes:**
 - Phase angle
 - Fast cycle
 - Single cycle
 - Advanced single cycle
 - Transformer burst firing
- **Suitable for virtually all types of load**
- **Current limit**
- **Alarm options include:**
 - Thyristor short circuit
 - Load open circuit
 - Partial load failure
 - Thyristor over temperature (>100 amps)
- **Optional digital communications**

Ratings

The current ratings of the 7100A cover the range from 16amps up to 630 amps, with units above 100 amps being fan cooled. The voltage rating can go up to a maximum of 690 volts.

Inputs

The 7100A can accept analogue voltage (0-5V or 0-10V) or current (0-20mA or 4-20mA) inputs.

Firing Modes

The 7100A is available with a selection of firing modes to suit most applications. It is suitable for controlling resistive loads with high or low temperature coefficient, short wave infrared (SWIR) or inductive loads.

Limits and alarms

Optional current limit which can work in all firing modes prevents excessive currents from flowing in the load circuit. Optional alarms can warn of thyristor short circuit or load open circuit (GRF alarm). Additionally partial load failure with automatic set up can detect the loss of one out of six parallel loads (DLF alarm). Over temperature shutdown is provided with fan cooled units (above 100 amps) with optional alarm.

Fusing

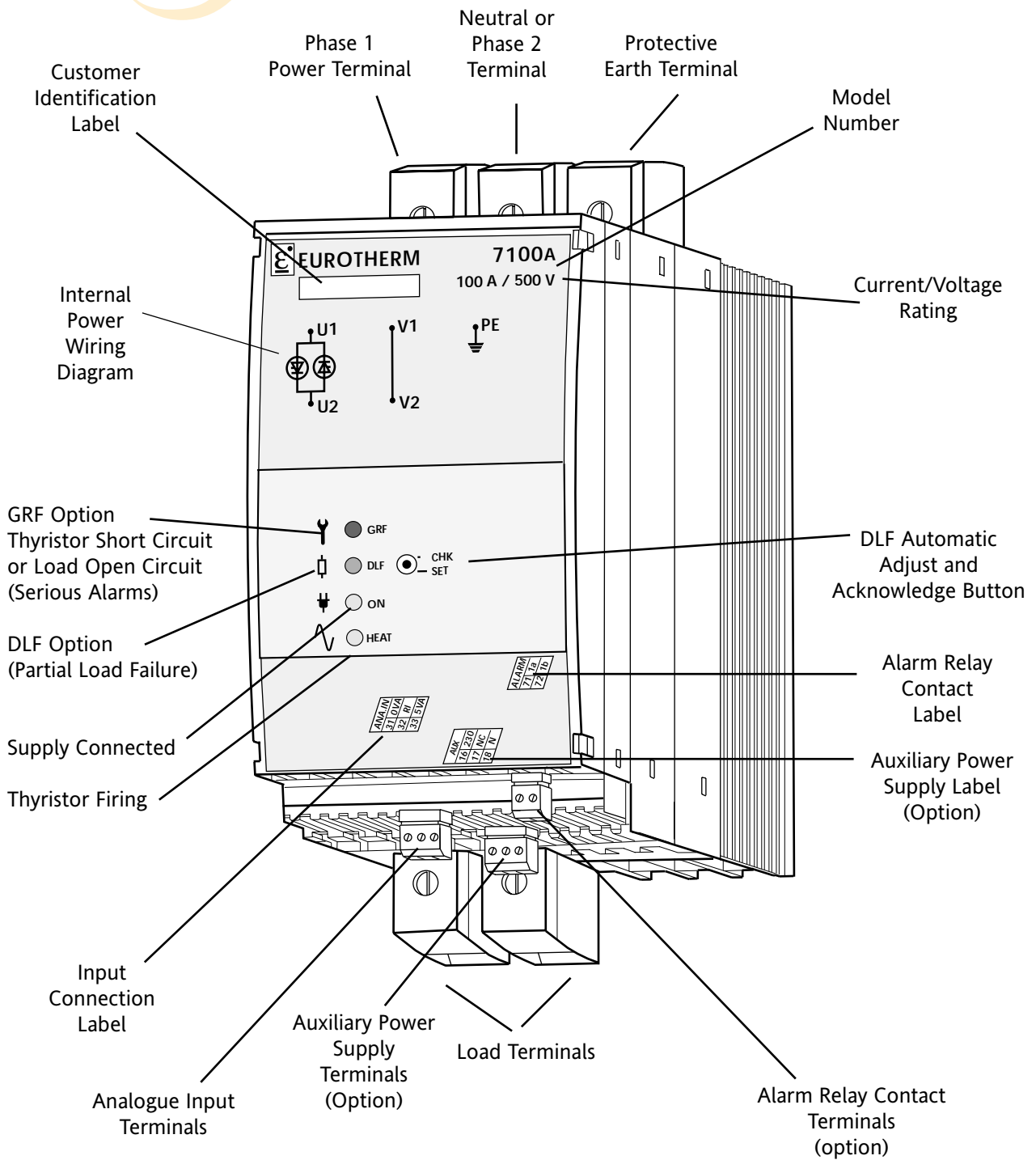
High speed fuses are recommended for most applications except SWIR. The fuses are external for units up to and including 100amps and internal above 100amps. Fuses are available either with or without microswitch indication.



EUROTHERM

CONTROLS
DATA MANAGEMENT
PROCESS AUTOMATION

7100A



Technical specification (Phased introduction - Consult Eurotherm for availability)

POWER	
Nominal Current	16 A to 630 A at 45° (see order code)
Nominal Voltage	100 VAC to 690 VAC (see order code)
Frequency	47 to 63 Hz
Auxiliary supply	Self-powered from supply network or external (115 V or 230 V +10%; 15%) depending on order code. Consumption: 10 VA
Dissipated power	1.3 W (approx): per amp. Allow 2W per amp to include fuse dissipation
Cooling	Rating ≤100 A: Natural convection Rating ≥ 125A: Fan-cooled
LOAD	Single-phase industrial load: Resistive load with low or high temperature coefficient, Short wave infrared elements, Inductive load, Transformer primary
INPUT	Analogue (optional digital communication) · Remote analogue setpoint: 0-5 V or 0-10V (100 kΩ input), 0-20 mA or 4-20 mA (250Ω input) · Potentiometer for manual setpoint (5 VDC supply available)
FIRING MODE	<i>Firing at zero crossings</i> · 'Burst mode' 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. <i>Firing angle variation</i> · 'Phase angle'
CONTROL	
Control parameter	· Standard: Load voltage squared (V^2) · Option: Apparent power ($V \times I$), Load current squared (I^2), Open loop
Linearity and stability	Better than ±2% of full scale
Current limit	Option depending on firing mode: · Phase angle: Automatic control transfer from V^2 to I^2 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 monitor signal is available to assist the current limit setting
Transient current limit	Option for transformer primary control in burst firing mode: · Safety firing angle ramp on first firing · First firing delay adjustable using potentiometer on front panel
TYPE 1 ALARMS (OPTIONS)	
Serious alarms (GRF option)	Total load failure and thyristor short circuit detection Signalled by 'GRF' LED and alarm relay contact
Diagnostic alarm (DLF)	Partial load failure detection Signalled by orange 'DLF' LED and alarm relay contact. The DLF option includes GRF alarms. Settings: Monitoring diagnostics, 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 stops if the temperature threshold is exceeded. Signalled by 'T' LED and alarm relay (if GRF or DLT option selected)
TYPE 2 ALARMS (OPTION)	
Over-current alarm (ICO Chop Off option)	Operation stopped if current threshold exceeded. Only available with zero crossing firing and DLF option (except for short wave infrared elements, transformers and codes V1CL 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 depending on the product code.
COMMUNICATIONS	Available later
ENVIRONMENT	
Use	0°C to 45°C at max. altitude of 2000m
Storage	-10°C to 70°C
Pollution	Degree 2 acceptable (defined by IEC 664)
Humidity	RH 5% to 95% Non condensing, non streaming
Protection.	IP20 without additional protection. Overvoltage category 3 (defined by IEC 664)
Thyristor protection	Varistor and RC snubber. High speed fuse: Rating ≤100A; external. Rating ≥ 125 A: internal. No fuse for short wave infrared (SWIR) elements if firing at zero crossings or in phase angle firing mode without current limit.
SIGNALLING	Electronics supply present: green 'ON' LED. Thyristor firing request: green 'HEAT' LED
CE LABELLING	Complies with the essential requirements of the European Low Directive 73/23 EEC (93/98 EEC).
EMC	Complies with EMC standard tests, enabling systems which incorporate 7100A products to be declared compliant with the EMC directive 89/336/EEC with respect to the 7100A products. Internal EMC filter for 'burst mode': ratings ≤40 A : standard, ratings 63 A to 100A: optional

Ordering code (Phased introduction - Consult Eurotherm for availability)

7100A	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	

1 Current	2 Voltage	3 Power Supply	5 Fuse	7 Internal EMC filter	9 Manual Language																																																																																
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Options for Phase Angle Firing

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Options for Burst/Single-Cycle Firing

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Communication and Certification

17/18 Comms Options	19 Certification Options						
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SPARES

Fuse without microswitch reference (code FUSE)				Fuse with microswitch reference (code MSFU)			
Rating	Fuse	With fuse-holder/ Dimensions (mm)		Rating	Fuse	With fuse-holder/ Dimensions (mm)	
		H x W x D				H x W x D	
16A	CH260024	FU1038/16A	81 x 17.5 x 94	16A	CS176513U020	MSFU1451/16A	110 x 26.5 x 94
25A	CH260034	FU1038/25A	81 x 17.5 x 94	25A	CS176513U032	MSFU1451/25A	110 x 26.5 x 94
40A	CH330054	FU1451/40A	97 x 26.5 x 86	40A	CS176513U050	MSFU1451/40A	110 x 26.5 x 94
63A	CS173087U080	FU2258/63A	128 x 35 x 90	63A	CS176461U080	MSFU2258/63A	127.5 x 35 x 96.5
80A	CS173087U100	FU2258/80A	128 x 35 x 90	80A	CS176461U100	MSFU2258/80A	127.5 x 35 x 96.5
100A	CS173246U125	FU2760/100A	240 x 38 x 107	100A	CS173246U125	MSFU2760/100A	240 x 53 x 107

Mounting using attachment plate

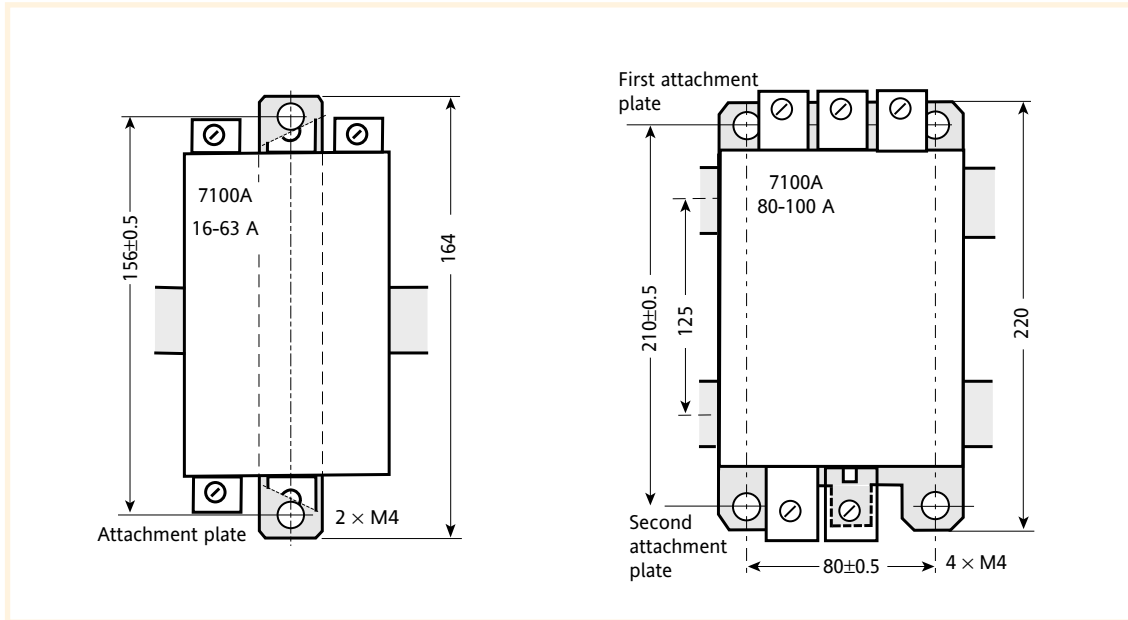
Layout:

Leave a gap of at least 10mm 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 (≥ 125 A bulkhead only)

Rating A	Attachment plate	Mounting	
		Symmetric DIN rails	Bulkhead
		EN50022 rails	Attachment screws
16 to 63	1 vertical	1 rail	2 x M4
80 and 100	2 horizontal	2 rails	4 x M4



Dimensions

CODES (see coding):

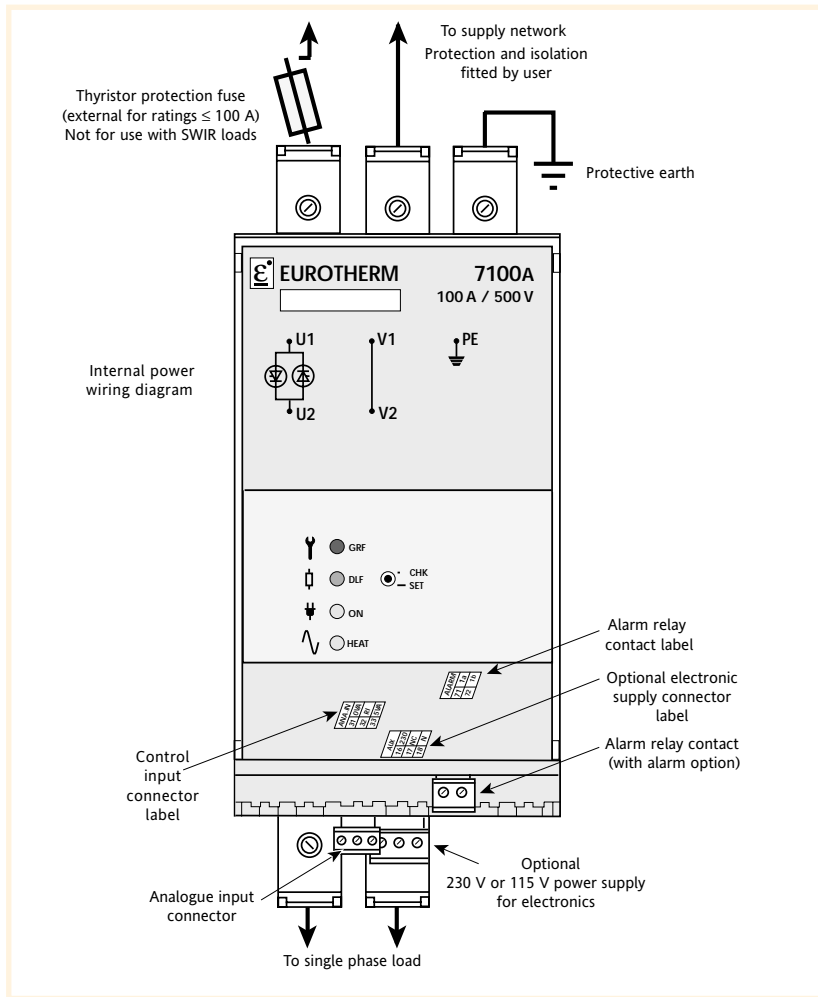
A Option: V2, OL, XFMR

B Options: DLF, GRF, I2, V212, V2CL

C Options: ICO, V1CL, VII2,
 DLF/GRF + I2,
 DLF/GRF + V2I2,
 DLF/GRF + V2CL

Rating (A)	Height (mm)	Width (mm)			Depth (mm)			Max. weight (kg)
		Basic or A Options	B Options or A + B	C Options or A + C	Basic or A options	B Options or A + B	C Options or A + C	
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 & 100	226	96	96	96	215	243	243	2.2

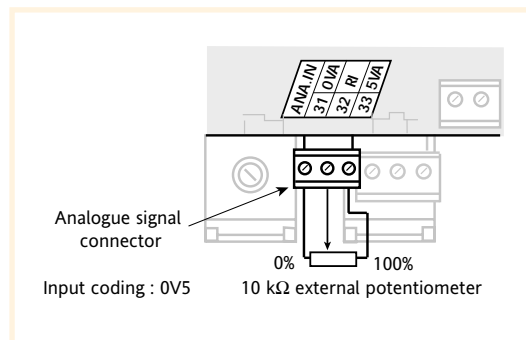
Connection diagram



Wiring

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

Local analogue setpoint



Control terminals

Terminal block	No.	Label	Purpose	
ANA.IN	31	0VA	0V analogue signal	Base
	32	RI	+ analogue signal	
	33	5VA	5V user supply	
AUX	16	230	Auxiliary 230V	
	17	115	or 115V supply	
	18	N	Neutral or 2nd phase	
ALARM	71	1a	Alarm relay	Alarm Options
	72	1b	contacts	

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