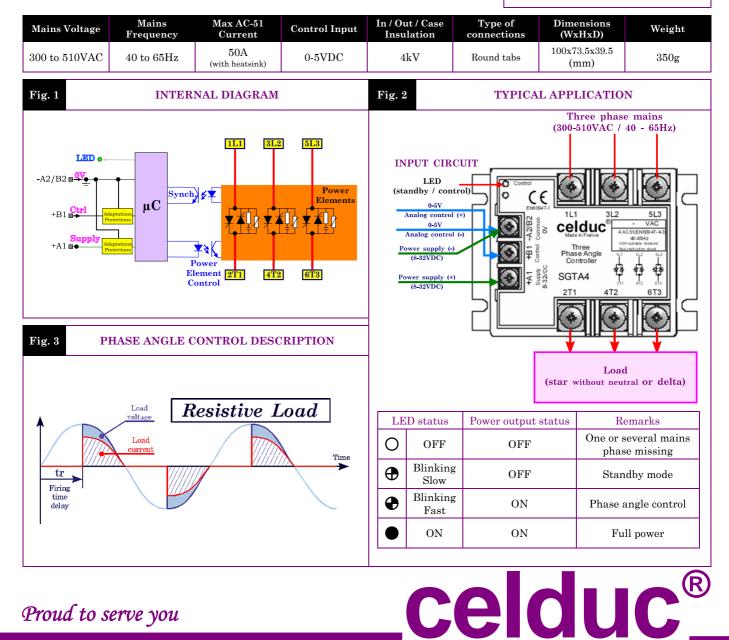
Data given at Tambient=25°C and subject to modification without previous notice

Proud to serve you

THREE PHASE ANGLE CONTROLLER

▶ Adapted to three phase star (without neutral) or delta connected loads (other wiring configurations on demand)

- Very low initial value regarding competition ►
- Small housing.
- Large mains frequency and voltage range.
- Fully opto-isolated full cycle three phase, phase angle controller (balanced currents, less harmonics, ...)
- ▶ Lot of possible options on demand (ramps, additional settings...).



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Proportional Analog Voltage Control Input : 0-5VDC 300->510VAC 50A AC-51

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SGTA4651

Page 1/5 UK

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INPUT CHARACTERISTICS

ANALOG CONTROL INPUT	CHARACTERISTIC	LABEL	VALUE	INFO.
	Label		Control	
	Terminals		+B1 & -A2/B2	
	Control voltage range	Uc	0-5VDC	
	Release and control threshold	Ucsmin	0.15VDC	
	Full power control threshold	Ucsmax	4.85VDC	
	Max. voltage (direct & reverse)	Ucmax	32VDC	
	Input impedance	Re	100kΩ	
SUPPLY INPUT	Label		Supply	
	Terminals		+A1 & -A2/B2	
	Operating voltage range	Us	Filtered 8-32VDC	
	Max. consumption	Is	15mA	See fig. 6

OUTPUT CHARACTERISTICS

LABEL	VALUE	INFO.
Ue	300 -> 510VAC	
Uep	1200V	
VDR	Built-in 510V size 14 varistors	
Ithmax (AC51)	50A	With heatsink (See fig. 8)
ITSM	550A	See fig. 8
I^2t	$1500 A^2 s$	@10ms
Iemin	100mA	
Ielk	7mA	@400VAC 50Hz
Pf	0.8->1	
F	40->65Hz	
dv/dt	500V/µs	
	Built-in RC network	
di/dt	50A/µs	
Ud	0.9 x Vto x Ith + rt x Ith²	
rt	12mΩ	@125°C
Vto	0.9V	@125°C
Tjmax	125°C	
Rthjc	0.45K/W	Total = 3 power elements
Rthra	4K/W	@∆Tra=60°C
Tthra	15min	@∆Tra=60°C
Uimp	4kV	
Rio	1GΩ	
Cio	<8pF	
Tstg	-40->+100°C	
Tamb	-40->+90°C	See fig. 7
Tc	100°C	
	Ue Uep VDR Ithmax (AC51) ITSM I ² t Iemin Ielk Pf F dv/dt di/dt Ud t Ud t t Vto Tjmax Rthjc Rthjc Rthra Uimp Rio Cio Tstg Tamb	Ue 300 -> 510VAC Uep 1200V VDR Built-in 510V size 14 varistors Ithmax (AC51) 50A ITSM 550A IPt 1500A²s Iemin 100mA Ielk 7mA Pf 0.8->1 F 40->65Hz dv/dt 500V/μs Ud 0.9 x Vto x Ith + rt x Ith² rt 12mΩ Vto 0.9 x Vto x Ith + rt x Ith² rt 12mΩ Vto 0.9V Tjmax 125°C Rthra 4K/W Rthra 15min Uimp 4kV Rio 1GΩ Cio <8pF

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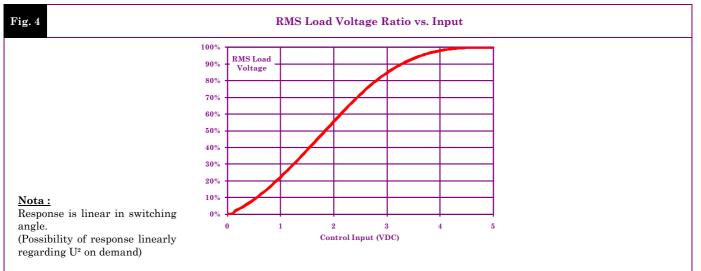


Page 3/5 UK

	GENERAL INFORMATION					
r	Input					

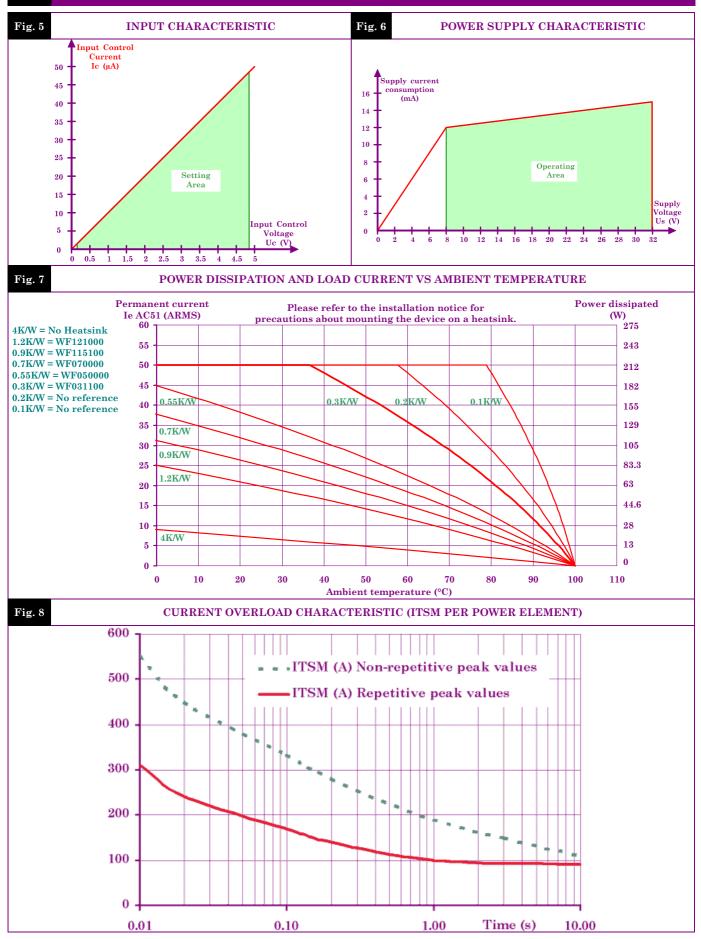
С	Connections		Power	Input	
CONNEC -TIONS	Туре		Round tabs		
	Screwdriver (advised)		Philips™ Nr2	Philips™ Nr1	
	Tightening torque (advised)		1.8Nm	0.8Nm	
	Housing		UL94V0		
MISC.	Mounting		Panel – 4 x M4, 1.5Nm		
MIK	Noise level		No Noise		
	Weight		350g		
				STA	NDARDS
. 1	Standards		EN60947-4-3		
GENERAL	Protection level		IP00		
IGI	Protection against direct touch		No		
IBN	CE marking		Yes		
9	UL, cUL and VDE approvals		Pending		
	TYPE OF TEST	STANDARD	LEVEL		EFFECT
ΓΥ	E.S.D. (Electrostatic discharges)	EN61000-4-2	8kV (air) 4kV (touch)		No effect
NI.	Radiated electromagnetic fields	EN61000-4-3	10V/m		No effect
E.M.C. IMMUNITY	Fast transients bursts	EN61000-4-4	2kV direct coupling on the power side 2kV coupling by clamp on the input side		No effect
MI	Electric chocks	EN61000-4-5	1kV direct coupling different 2kV direct coupling commo		No effect
	Voltage drop	EN61000-4-11	-		
E.M.C. EMISSION	Radiated and conducted disturbances	NFEN55011	solid-state relays depend configuration. The test method recor standards and concerning e leading to results far from rea customer in order to adapt the application.	nmended by the European lectromagnetic compatibility lity, we decided to advise our	

TRANSFERT CHARACTERISTIC



Page 4/5 UK

CHARACTERISTIC CURVES



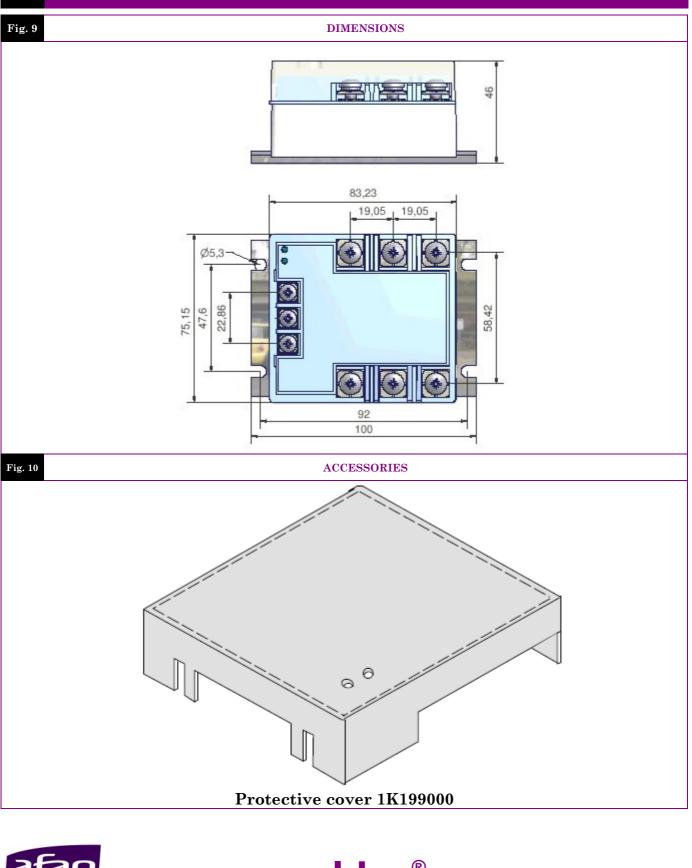
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Page 5/5 UK

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