

RELAIS STATIQUE A MOSFET POUR COURANT CONTINU

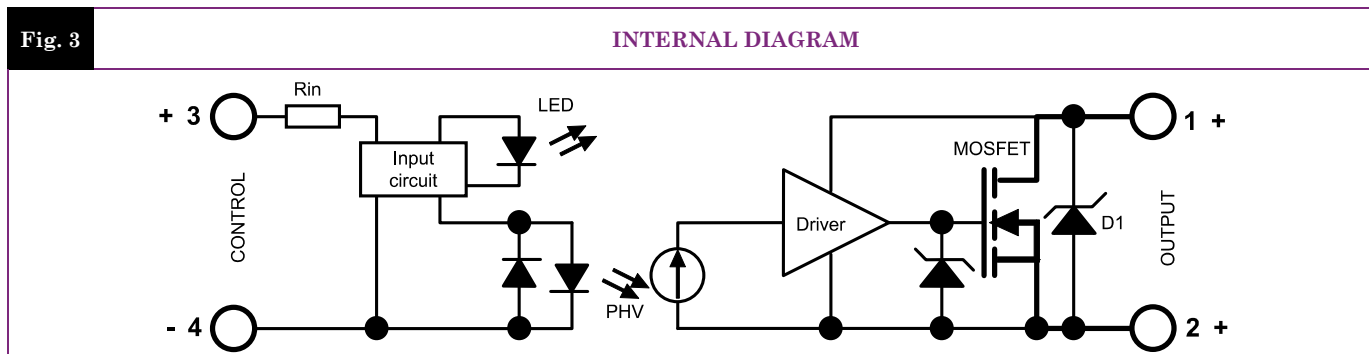
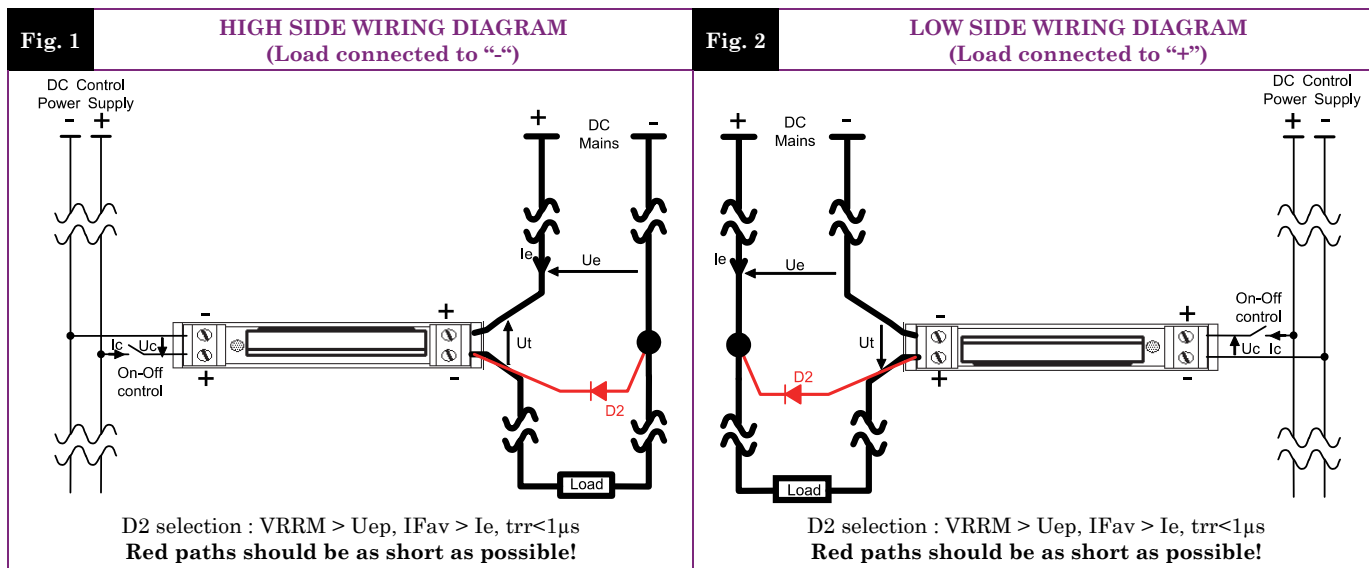
XKLD31006


Plage de tension de commande	10-30VDC
Tension de sortie permanente max.	40v (60V crête)
Courant nominal sans dissipateur	10ADC



- Montage rail DIN
- Technologie à base de MOSFET dernière génération.
- Très faible résistance à l'état passant.
- Protection contre les surtensions intégrée.
- Affichage de la commande (LED verte)
- Applications :
 - Feux routiers
 - Petits moteurs, électroaimants, luminaires, éléments chauffants
 - Appareils de mesure
 - ...

Tensions d'utilisation	Plage de courant de charge	Plage de tension de commande	Isolations	Connexions	Dimensions (LxHxP en mm)	Poids
12-24-36VDC	0 to 10A	10-30VDC	2.5kV	Borniers à vis	12.2 x 76.4 x 53	30g



PRELIMINARY
CONTROL INPUT CHARACTERISTICS

INPUT CIRCUIT	CHARACTERISTIC	LABEL	VALUE	INFO.
	Nominal control voltage	Ucnom	12-24VDC	
	Nominal control current	Icnom	9-20mADC	
	Control voltage range	Uc	10 – 30VDC	
	Current consumption	Ic	7-26mADC	See fig. 5
	Releasing voltage	Ucoffmax	1VDC	
	Max. reverse voltage	-Ucmax	30VDC	
	Input impedance	Rin	1000Ω	See fig. 5

POWER OUTPUT CHARACTERISTICS

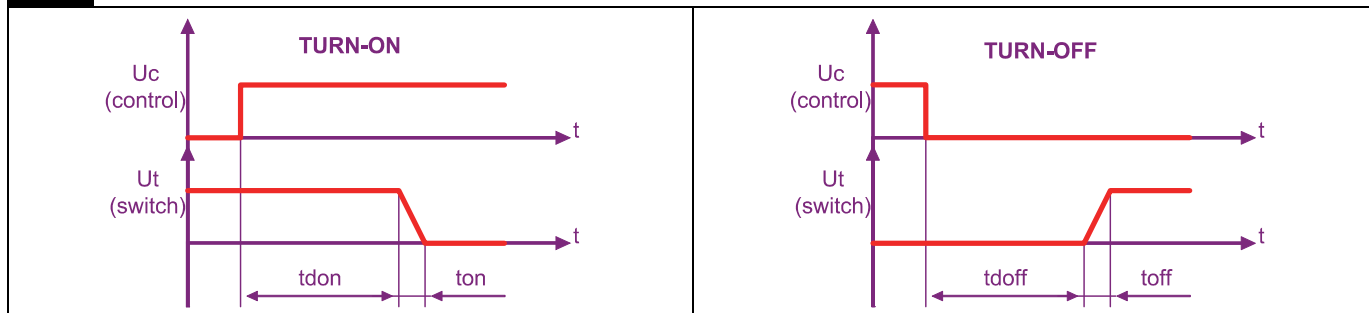
POWER CIRCUIT	CHARACTERISTIC	LABEL	VALUE		INFO.
	Mains Nominal voltage	Uenom	12-24-36VDC		
	Mains voltage range	Ue	10-40VDC		
	Non-repetitive peak voltage	Uep	60V		
	Overvoltage protection	D1	Pulse = 600W 1.2/50μs Permanent = 0.5W		
	Reverse voltage drop (internal diode)	-Ue	0.82VDC		@Ie=10A @Uc=0
	Maximum nominal currents	Ie	10A		See fig. 7 for limits
	Non-repetitive peak overload current	Iepeak	100A @10ms		See fig. 8
	Min. load current	Iemin	0.1mA		
	Max. leakage current	Ielk	0.1mADC		@Uep @Tjmax
	Max. on-state resistance	RDSon	14mΩ @Tj=25°C	22.4mΩ @Tj=125°C	@Iemax
	Typ. output capacitance	Cout	360pF		@1MHz @VDS=25V @Uc=0
	Junction/case thermal resistance per power element	Rthjc	1K/W		Total = 1 power elements
	Relay/ambient thermal resistance vertically mounted	Rthra	22K/W		@ΔTra=60°C
	Relay thermal time constant	Tthra	2min		@ΔTra=60°C
	Control inputs/power outputs insulation voltage	Uimp	2.5kV		
	Inputs/case insulation voltage	Uimp	2.5kV		
	Outputs/case insulation voltage	Uimp	2.5kV		
	Isolation resistance	Rio	1GΩ		
	Isolation capacitance	Cio	<8pF		
	Maximum junction temperature	Tjmax	175°C		
	Storage ambient temperature	Tstg	-40->+100°C		
	Operating ambient temperature	Tamb	-25->+90°C		See fig. 7
	Max. case temperature	Tc	100°C		

PRELIMINARY

TIME CHARACTERISTICS

Fig. 4

TIME DIAGRAM



TIME CHARACT.	CHARACTERISTIC	LABEL	VALUE	INFO.
	Turn on time	ton	1μs	
	Turn on delay	tdon	10μs	
	Turn off time	toff	10μs	
	Turn off delay	tdoff	150μs	
	Max. On-Off frequency	F(on-off)	1 to 700Hz depending on the circuit configuration : please consult us	

GENERAL INFORMATION

MISC.	Display LED (control)		Green	
	Housing		UL94V0	
	Mounting		DIN RAIL	
	Noise level		No audible noise	
	Weight		30g	

STANDARDS

GENERAL	Standards		IEC60947-1	
	Protection level		IP00	
	Protection against direct touch		None	
	CE marking		Yes	
	UL, cULUS and VDE approvals		Pending	

E.M.C. IMMUNITY	TYPE OF TEST	STANDARD	LEVEL	EFFECT
	E.S.D. (Electrostatic discharges)	EN61000-4-2	Pending	?
	Radiated electromagnetic fields	EN61000-4-3	Pending	?
	Fast transients bursts	EN61000-4-4	Pending	No effect
	Electric chocks	EN61000-4-5	Pending	?
	Voltage drop	EN61000-4-11	-	

E.M.C. EMISSION	Radiated and conducted disturbances	NFEN55011	Pending	

CHARACTERISTIC CURVES

Fig. 5

INPUT CHARACTERISTIC

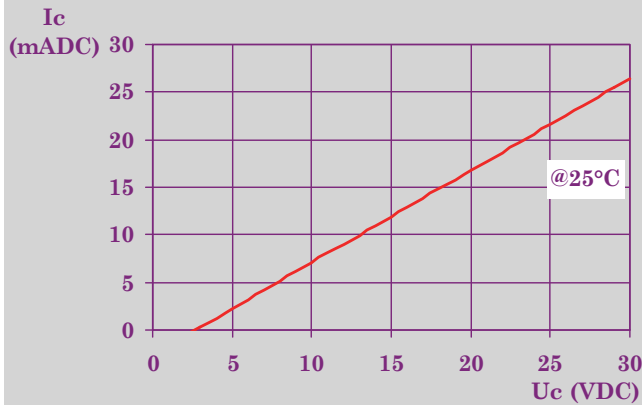


Fig. 6

ON-STATE VOLTAGE DROP VS TEMPERATURE

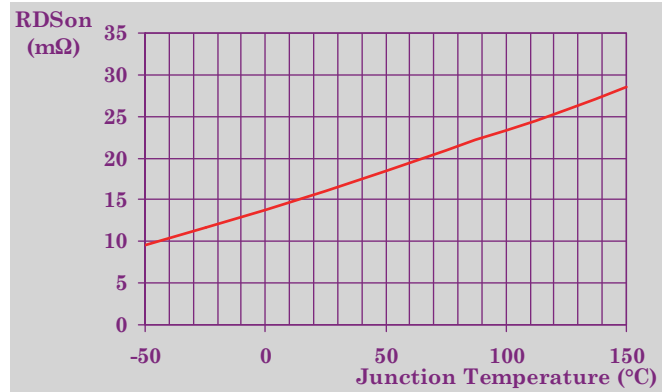


Fig. 7

LOAD CURRENT LIMIT VS TEMPERATURE

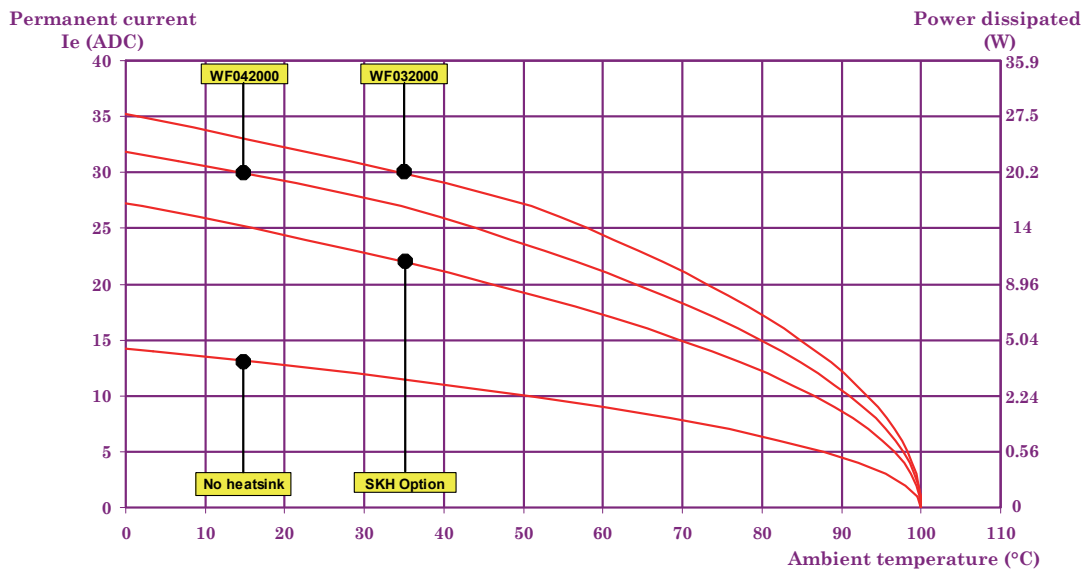


Fig. 8

CURRENT OVERLOAD CHARACTERISTIC (ITSM)

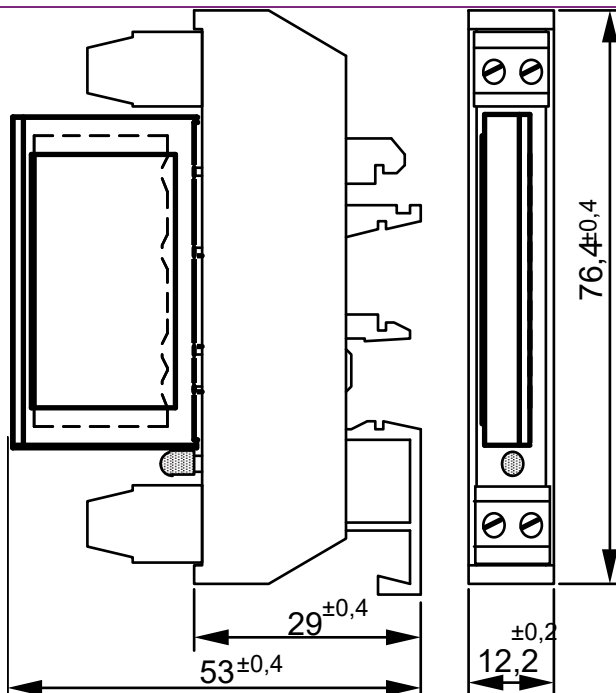
Not available

PRELIMINARY

DIMENSIONS AND ACCESSORIES

Fig. 9

DIMENSIONS



**Fig.
10**

ACCESSORIES