

**RELAIS STATIQUE A MOSFET
POUR COURANT CONTINU**

- ▶ 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
 - ...

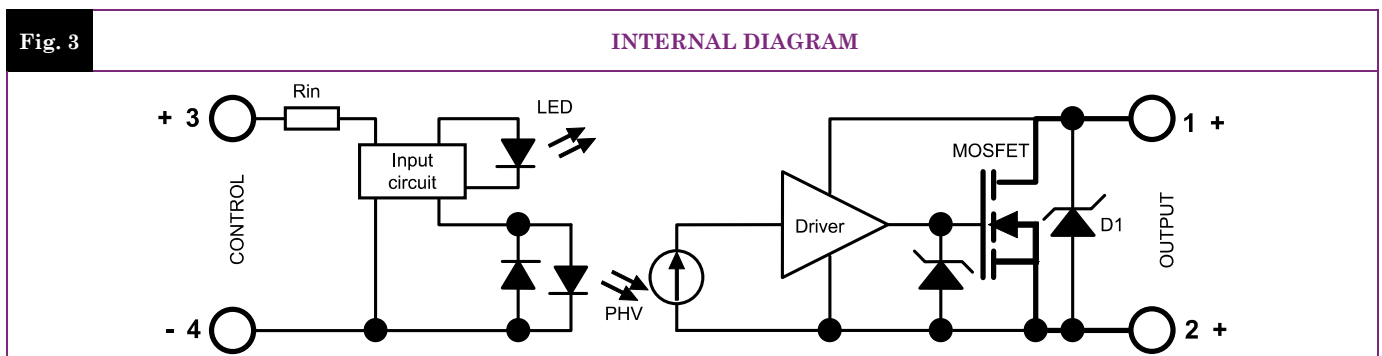
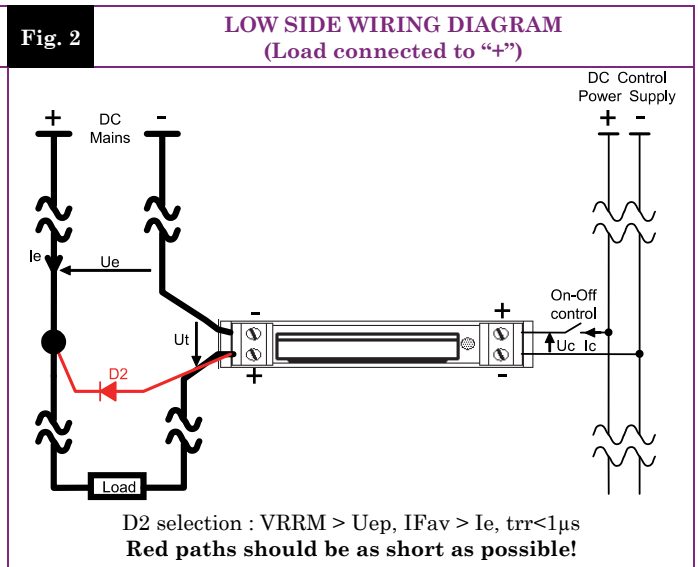
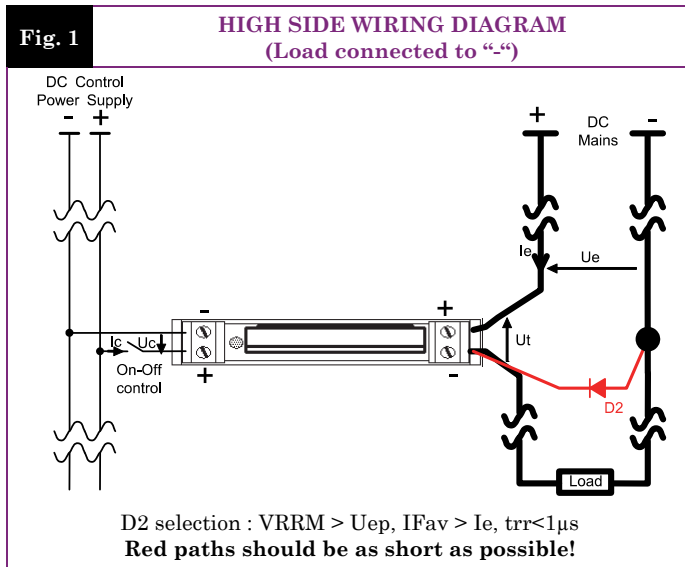
XKLD31006



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



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



Proud to serve you

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

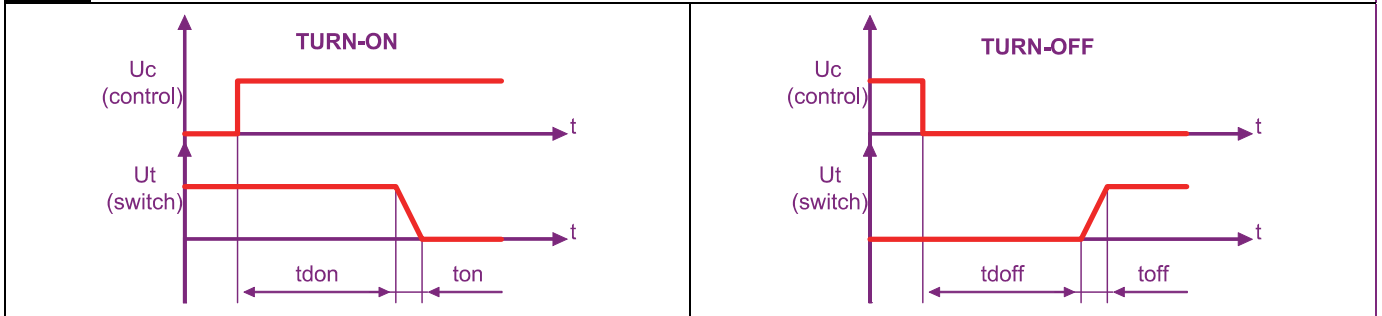
POWER OUTPUT CHARACTERISTICS

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	
	Oversvoltage 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	

TIME CHARACTERISTICS

Fig. 4

TIME DIAGRAMS



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	
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CHARACTERISTIC CURVES

Fig. 5 INPUT CHARACTERISTIC

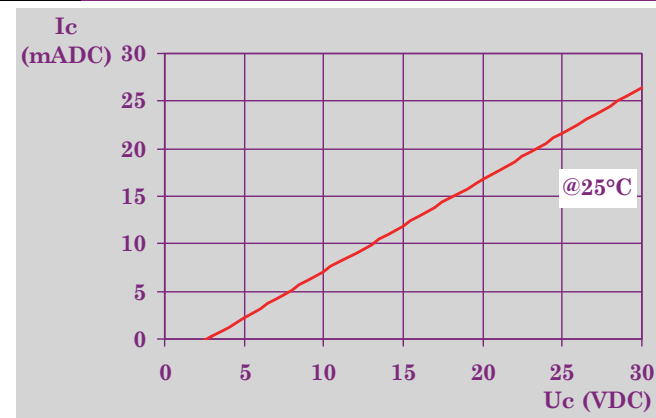


Fig. 6 ON-STATE VOLTAGE DROP VS TEMPERATURE

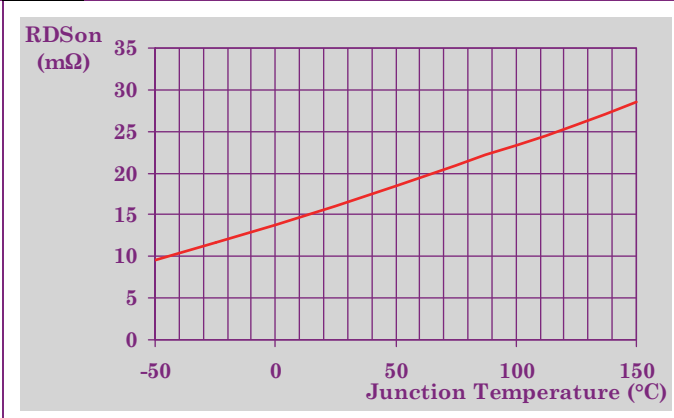


Fig. 7 LOAD CURRENT LIMIT VS TEMPERATURE

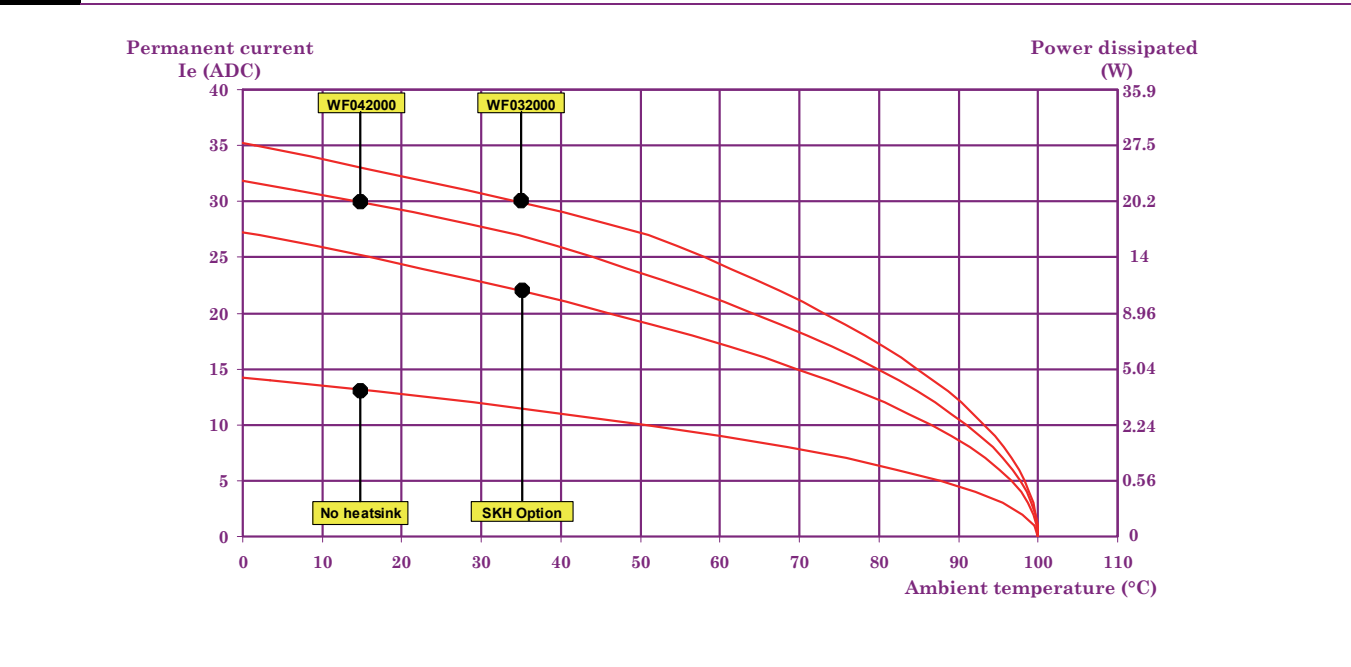


Fig. 8 CURRENT OVERLOAD CHARACTERISTIC (ITSM)

Not available

DIMENSIONS AND ACCESSORIES

Fig. 9

DIMENSIONS

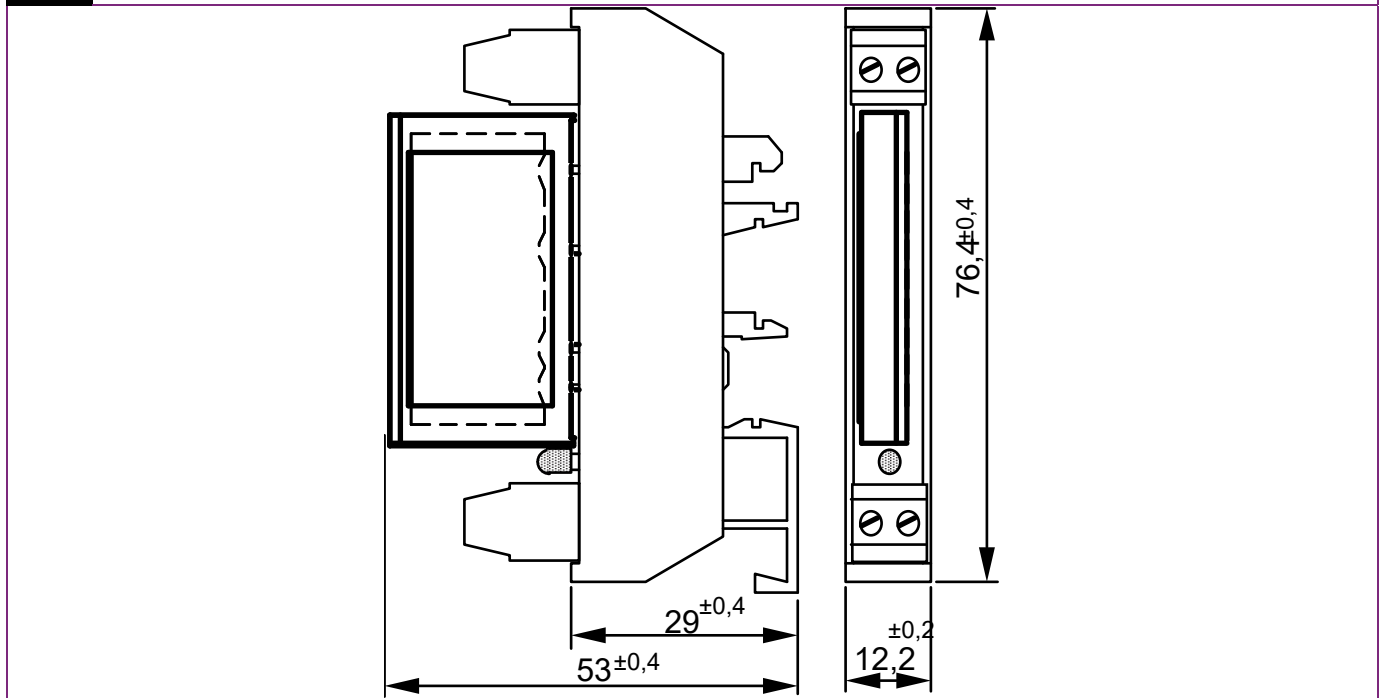
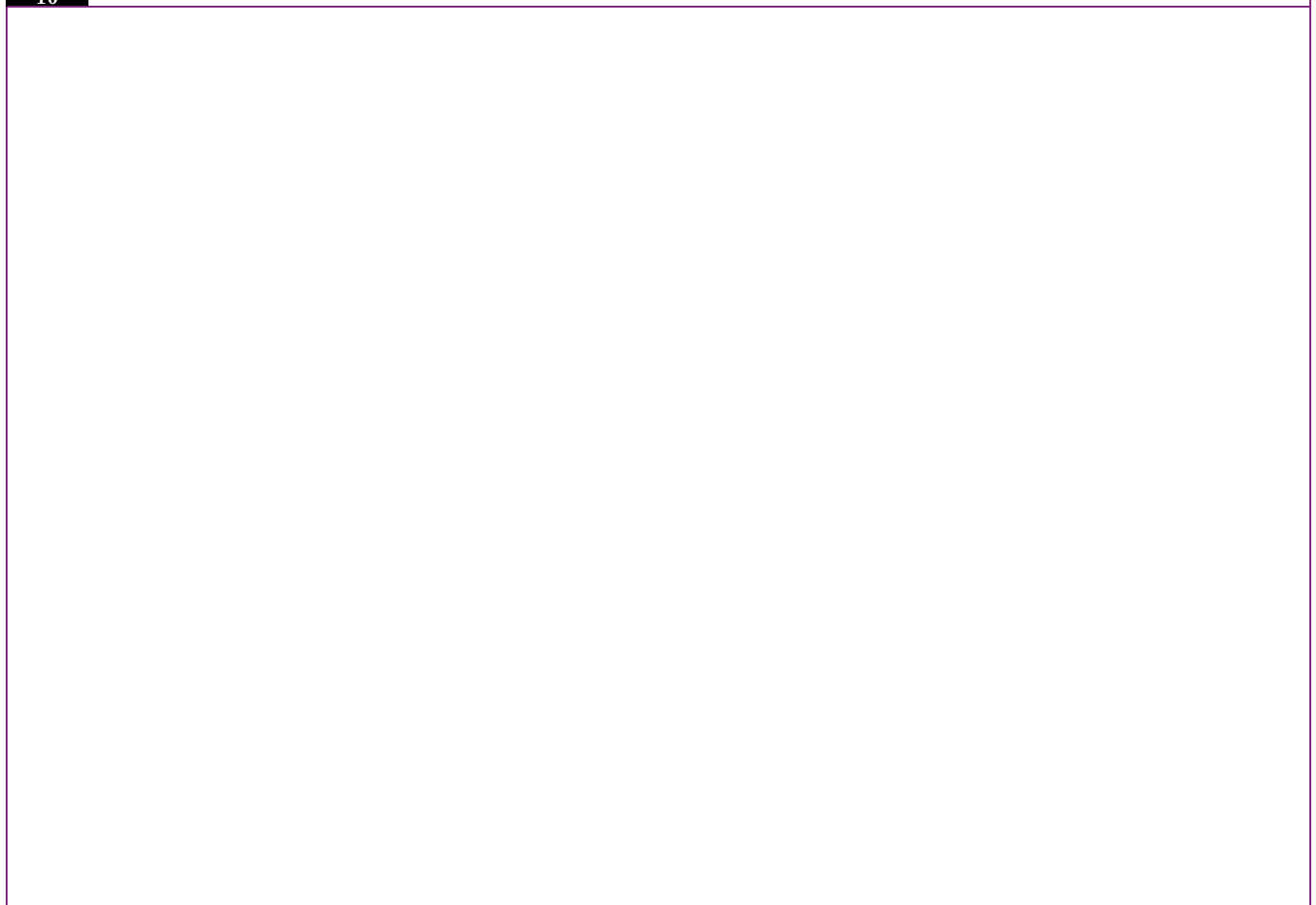


Fig. 10

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