

Technical Data Sheet

GATEKEEPER **LITE** Series Power Surge Diverter (SPD)

Product Description:

The LDU GKSDL surge diverter is a high quality low cost DIN compliant diverter of a modular design. Therefore when the device expires, you simply replace the module to reinstate the diverter's full capacity. The unit has been designed for mounting in the main switchboard or distribution board Cat B/C locations.

As with all LDU diverters, the GKSDL range of surge diverters has been designed to be fail-safe incorporating internal over voltage and thermal fusing.



1 Phase 1 & 3 Mode

3 Phase 1 & 3 Mode



1 Phase Alarm Terminal

Features:

- Three phase diverter for class 1&11 Cat B&C applications.
- Modular design
- Internal fusing
- Status indication
- Long service life

Alarm:

The GKSDL is supplied with external alarms consisting of a voltage free relay to remotely monitor the diverter status. The alarm terminal capacity is 2.5mm² and are configured as follows:

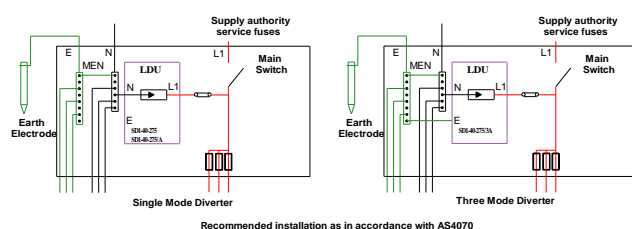
NC = Normally Closed
NO = Normally Open
C = Common

Closed when power is off or under fault conditions
Open when power is off or under fault conditions

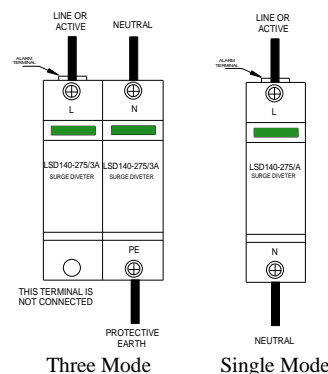
Installation:

The GKSDL should be installed on the supply side of any and all RCD/ELCBs (Residual Current Devices/Earth Leakage Circuit Breakers).

Single Phase:



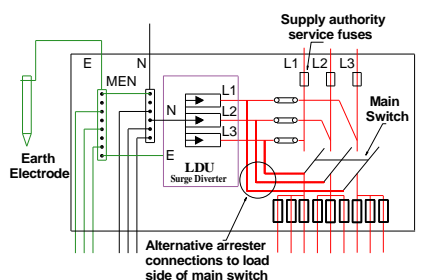
Recommended installation as in accordance with AS4070



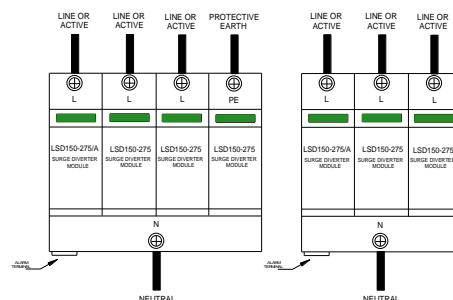
Three Mode

Single Mode

Three Phase:



Recommended installation as in accordance with AS4070



Three Mode

Single Mode

Data Sheet

GATEKEEPER LITE Series Power Surge Diverter (SPD)

Specification:

Order Code:		GKSDL1-50-275	GKSDL1-50-275/3	GKSDL3-60-275	GKSDL3-60-275/3
Electrical Specification					
Application		Single Mode Protector	Three Mode Protector	Single Mode Protector 6	Three Mode Protector
Phases:		Single		Three	
Primary surge protection (per mode)	I _{MAX}	50KA – 1278 Joules		60KA – 1533 Joules	
Nominal input voltage (per phase):	U _O	240Vac / 50Hz			
Maximum continuous voltage - AC:	U _C	275Vac / 50-60Hz		440Vac / 50-60Hz	
Maximum continuous voltage - DC:		320Vdc		585Vdc	
Connection type:		Parallel			
Maximum load current:	I _L	N/A			
Let-through voltage @3KA 8/20us		1KV			
Modes of protection		One (L-N,)	Three (L-N, L-E, N-E)	One (L-N,)	Three (L-N, L-E, N-E)
Response time	t _A	≤5ns			
Follow on current		Nil			
Earth leakage current:		<1mA			
Display:		Thermal Disconnect – Green – normal Red - Failure			
Inline current limiting device size		63A			
Operating temperature range		-40 ⁰ - +80 ⁰			
Remote contact alarms		Yes			
Remote contact alarms Floating Changeover Contact		Optional		Standard	
Alarm Isolation		4KV			
Switching capability	U _N /I _N	AC: 250V/0.5A			
Standard Compliance – In house tested		UL1449 4 th Edition / IEC61643-11 / AS1768			
Surge Tested To		ANSI C62.41 Cat A, Cat B, Cat CAS/NZS 1768-2007 Cat A, Cat B, Cat C IEC/VDE I & II / B&C			
RCM Number (Aust Approval)		5140			
Mechanical Specifications:					
Connection type:		Disconnect terminals – Screw terminal			
Power terminal capacity:		35mm2 single-strand or 25mm2 multi-strand			
Alarm terminal capacity		2.5mm2			
Enclosure material		Thermoplastic: extinguishing degree UL94 V-0			
IP index:		IP 20			
Mounting:		35mm DIN rail in accordance with EN50022/DIN46277-3			
Width:	mm	18	36	54	72
Depth:	mm	65			
Weight:	g	150	300	450	600

KEY: Example: GKSDL3-60-440/3

Gatekeeper	LITE Version	KA Rating	Modes
GK SD	L	3 - 60 - 275	/ 3
Surge Diverter	Number of Phases	Voltage	