

## TECHNICAL DATA SHEET POWER SURGE PROTECTION DEVICES (SPD)

### GKSD SURGE DIVERTER (SPD)



#### Product Description:

**General:** The *Gatekeeper* range manufactured by LDU Applied Technologies has been designed to provide high-energy surge protection for single and three phase power circuits. Being full 3 mode or 10mode devices, the diverters have been designed for mounting at either main power switchboards, major distribution boards or sub-boards and should be installed in front of any surge filters or UPS to maximise the protection offered to the load. 10-year manufacturers warranty

#### Features:

- Low Let-through voltage
- High surge current capabilities per phase
- Internal fusing
- Full status, power, individual segmental & thermal indication
- Multiphase Sinewave Tracking Technology (MSTT)
- Full multimode protection
- Full Metal Housing

Electrical Specification:		GKSDX-50	GKSDX-100	GKSDX-150	GKSDX-210	GKSDX-320
Connection Type:		Parallel				
Phases:		Single or Three				
Nominal Input Voltage per Phase:	$U_o$	230Vac / 50Hz				
Maximum Continuous Voltage per Phase:	$U_c$	275Vac / 50hZ				
Voltage Protection Level/Rating	$U_p$	800V				
Nominal Current (p/phase) (8/20 $\mu$ S)	$I_n$	20KA	40KA	60KA	80KA	120KA
Nominal Current (p/phase) (10/350 $\mu$ S)	$I_n$	54KA	108KA	162KA	216KA	324KA
Primary Surge Protection (p/phase) (8/20 $\mu$ S)	$I_{MAX}$	50KA	100KA	150KA	210KA	320KA
Primary Surge Protection (p/phase) (10/350 $\mu$ S)	$I_{MAX}$	135KA	270KA	405KA	567KA	864KA
Primary Surge Protection (Joules p/phase)	J	920	1840	2750	3720	5600
N-E Protection (per mode) (8/20 $\mu$ S)	$I_{MAX}$	50KA				
N-E Protection (per mode) (10/350 $\mu$ S)	$I_{MAX}$	135KA				
Modes of protection ( Single Phase)		3 Mode (L-N, L-E, N-E)				
Modes of protection ( Three Phase)		10 Mode (L1-N, L2-N, L3-N, L1-E, L2-E, L3-E, L1-L2, L2-L3, L1-L3, N-E)				
Response time	$t_A$	<5ns				
Earth leakage current:		<1mA			Power/Status - LED	
Display:		Segmental & Thermal Hi-intensity LED Display				
Internal Current Fusing		YES - Standard				
Internal Thermal Fusing		YES - Standard				
Alarm Contacts		YES - Standard				
<b>Mechanical Specifications:</b>						
Connection Type:		Screw terminal				
Power Terminal Capacity:		25mm <sup>2</sup>				
Alarm Terminal Capacity		2.5mm <sup>2</sup>				
IP index:		IP 20				
Enclosure Shape		DIN			Rectangle	
Mounting:		TS35 DIN rail			TS35 DIN rail or Wall	
Width – single phase (3 phase):	mm	42 (95)			70	240
Height – single phase (3 phase):	mm	100 (100)			185	285
Depth – single phase (3 phase):	mm	80 (80)			80	100
Weight – single phase (3 phase):	g	285 (500)	315 (560)	345 (620)	1kg	3.5 kg
<b>Standards:</b>						
Country of Design & Manufacture:		Australia				
Standard Compliance:		IEEE C62.41 cat, A, B, AS1768-2007 cat. A, B & C, AS3260, BS6651 cat A, B CP33 cat A, B, IEC 1000-4-5-1995, CE, UL1449 Third Edition, RMC 5140, IEC 61643-1 Class I, II, III				

KEY: Example: GKSD3-100/A

Gatekeeper	Number of Phases	Optional Alarm
<b>GK SD</b>	<b>3</b>	<b>/A</b>
Surge Diverter	KA Rating	

