

Technical characteristics

Han-Modular® SP SO DM2

Nominal voltage(U_N)*	24 V
Max. continuous operating voltage (d.c.) (U_C)*	33 V
Max. continuous operating a.c. voltage (U_C)	23 V
Nominal current at 70 °C (I_L)	0.5 A
Impulse Category	D1, C1, C2, C3
D1 Lightning impulse current (10/350 μ s) per line (I_{imp})	1 kA
C1, C2 Total nominal discharge current (8/20 μ s) (I_n)	20 kA
C1, C2 Nominal discharge current (8/20 μ s) per line (I_n)	5 kA
Voltage protection level line-line for I_n C2 (U_p)	≤ 55 V
Voltage protection level line-PG for I_n C2 (U_p)	≤ 650 V
Voltage protection level line-line for 1kV / μ s C3 (U_p)	< 45 V
Voltage protection level line-PG for 1kV / μ s C3 (U_p)	< 500 V
Series impedance per line	1.8 Ohm
Cut-off frequency line-PG (f_G) / 50 Ohm	5.5 MHz
Capacitance line-line (C)	< 1 nF
Capacitance line-PG (C)	< 20 pF
Operating temperature range (T_U)*	-40 °C ... +85 °C
Degree of protection*	IP20
Dimensions	34.2x54.59x 14.65 mm (WxLxH)
Wire connection method*	Push In
Pluggabel into*	Plug module SP PL DM2
Enclosure Material*	Polycarbonate
Cross-sectional area, solid*	AWG 24 - 16; 0.2 mm ² - 1.5 mm ²
Cross-sectional area, flexible*	AWG 24 - 16; 0.2 mm ² - 1.5 mm ² (without ferrule)
Stripping length*	min. 8 mm
Mounting*	Han-Modular® Hinged Frame
Colour*	RAL 7032
Test standards	IEC 61643-21 / EN 61643-21
UL approval / flammability class.*	UL497B / UL94 V-0
Shock and vibration*	IEC 60068-2-6 / IEC 60068-2-29
Equipotential bonding	via earthed hinged frame (≥ 6 mm ² / \leq AWG 10)

Specifications and approvals

Compliant with UL 497 B





Differential mode-2 channels

Features

- Surge protection for two pairs of balanced signals
- Protects symmetric signals interfaces with electrical isolation
- Fits in Han® Modular connector system
- Nominal voltage: 24VDC
- Nominal current: 0.5A

General description

The surge protection module protects up to 2 pairs of balanced signals interfaces with electrical isolation against lightning strikers or overvoltage. Preferred field of application is the protection of analogue signal interfaces like for 0/4-20mA or differential signals.

The equipotential bonding will be led via the earthed hinged frame of the Han-Modular® system.

Identification

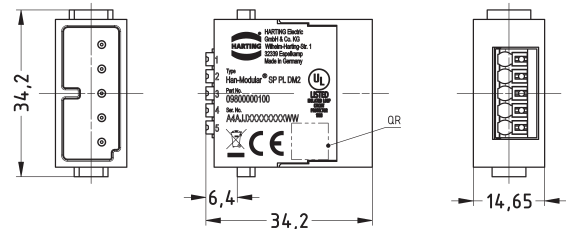
Part number

Drawing

Dimensions in mm

Han-Modular® SP PL DM2, male

09 80 000 0100



Han-Modular® SP SO DM2, female

09 80 003 0200

