

**OnLine® 6-Series Communication Line Protectors:** Some face persistent system problems, despite their use of conventional communication line protectors. Others face performance expectations that allow zero tolerance for downtime. 6-Series communication line protectors are specifically engineered to satisfy these demanding applications, whether for analog or digital lines.

#### **Ultimate assurance of system reliability**

Leading telecommunications companies employ ONEAC OnLine communication line protectors in their installations for good reason: because OnLine protectors provide greater assurance of PBX and key system uptime and lower service costs than conventional protectors.

#### **Eliminates harmful transients**

System lockups, dropped calls, mis-dials, system memory loss, "no trouble found" service calls, service outages, shortened component life — these problems result from high frequency interference.

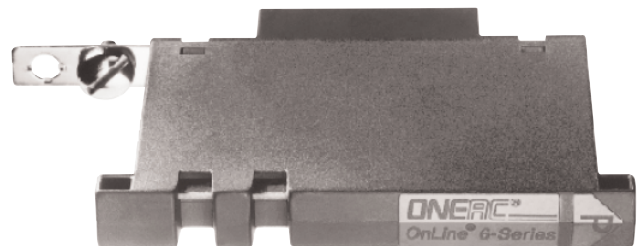
ONEAC OnLine 6-Series Communication Line Protectors eliminates these harmful transients.

#### **Last longer on the job**

ONEAC communication line protectors feature a more robust design than others so they're better able to withstand current and voltage surge. Which eliminates the cost and downtime of replacement due to nuisance failures.

#### **Proven to reduce service costs**

By removing electrical transients, ONEAC improves system reliability. Look at actual evidence — installers switching over to a protection scheme using OnLine protectors with ONEAC power conditioners report an over 50% reduction in total trouble calls; 83% fewer service calls due to hardware problems; 70% fewer system resets; and 43% fewer calls in which no trouble was found.



- **Robust/solid state overvoltage protection:** last longer in the field
- **Convenient test points:** for faster, easier line testing
- **100 A surge impulse design:** provides longer lasting protection
- **Models available for digital and ISDN lines**
- **Safety approval:** UL/cUL Listed Secondary (497A) and UL Listed Primary (497)
- **5-year warranty:** the best assurance of product quality and performance in the industry
- **Manufactured under ISO 9001:** assures consistent quality and performance.
- **Free 24-hour technical support**



*Easily mountable on standard 66 blocks, OnLine provides more complete and longer lasting protection than conventional communication line protectors.*

# OnLine 6-Series Communication Line Protector: Specifications

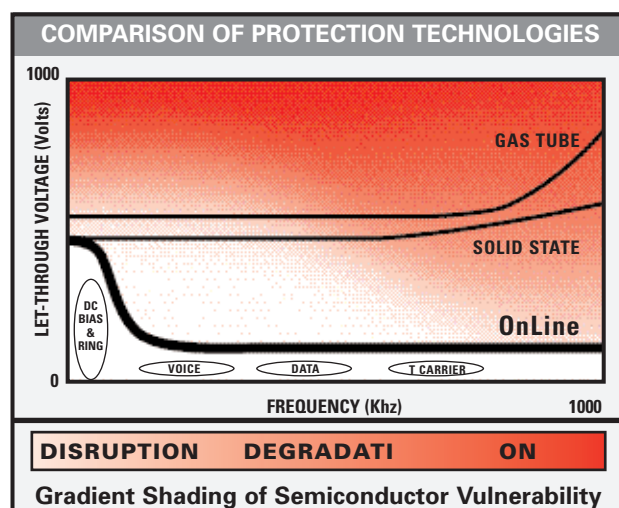
## For digital or ISDN service

For use with type 66 block M1-50, 6-Series communication line protectors eliminate the possibility for noise generated on outside telephone lines to enter internal communication circuits.

Digital OPX by vendor	Part No.	Color
Toshiba 24V (1 pr)	6-DSP36	Yellow
Toshiba 24V (2 pr)*	6-DSP36	Yellow
Samsung 24V (1 pr)	6-DSP36	Yellow
Samsung 24V (2 pr, 12V/pr)*	6-DSP20	Yellow
Executone 24V (2 pr, 12V/pr)*	6-DSP20	Yellow
Nortel 24V (1 pr)	6-DSP36	Yellow
ROLM/Siemens 24V (1 pr)	6-DSP36	Yellow
NEC 48V (1 pr)	6-DSP68	Yellow
Fuji 48V (1 pr)	6-DSP68	Yellow
AT&T 24V (4 pr)**	6-DSP36	Yellow
AT&T 48V (4 pr)**	6-DSP68	Yellow
Mitel 48V (1 pr)	6-DSP68	Yellow

\* Require 2 OnLine 6-Series protectors (1 per pair).

\*\* Require 4 OnLine 6-Series protectors (1 per pair).



Part Number	6-DSP20	6-DSP36	6-DSP68
<b>Impulse (Limiting Voltage) Performance: Impulse input @ 10/1000 uS, 1.5 kV, 100 A</b>			
Let-through voltage - line to earth (typical/max.)	55 V/65 V	65 V/75 V	100 V/110 V
Let-through voltage - line to line (typical/max.)	55 V/65 V	65 V/75 V	100 V/110 V
<b>DC Breakdown (Limiting) Voltage Range: 0-1 kV @ 100 V/S</b>			
Line to earth (typical/range)	20 V/18-23 V	36 V/33-40 V	68 V/64-74 V
Line to line (typical/range)	20 V/18-23 V	36 V/33-40 V	68 V/64-74 V
Module Loop Resistance @ 25°C (each leg) in ohms	≤1 Ω	≤1 Ω	≤1 Ω
Response Time	<5ns	<5ns	<5ns
Insulation Resistance @ 12 VDC	>1 MΩ	>1 MΩ	>1 MΩ
Capacitance Line to Earth @ 12 VDC, 1 VAC, 10 kHz – 1 MHz			
A or B in reference to earth:	<75pf	<75pf	<75pf
A to B:	<75pf	<75pf	<75pf
Overcurrent Protection (Sneak Current) @ 25°C			
Non-resetting (time delay fuse)	1 A	1 A	1 A
Test Points	yes	yes	yes

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