Mains Filters



Designed to reduce conducted mains borne EMI, this extensive range provides many solutions to EMI problems. To meet individual design requirements the filters are available with two attenuation options – standard and medical. Current ratings are from 1 to 10 amps with single or twin fused types also available.

The choice of mounting options will suit most applications with flange, snap to panel or base/bulkhead.

Flange and Snap Fit
PS00 Series 314-315
PS01 Series 314-315

Base Mounting and Bulkhead
PS02 Series 316-317
PS03 Series 316-317

Fused Inlets
PS20 Series 318-319
PS21 Series 318-319
PS25 Series 320-321
PS26 Series 320-321

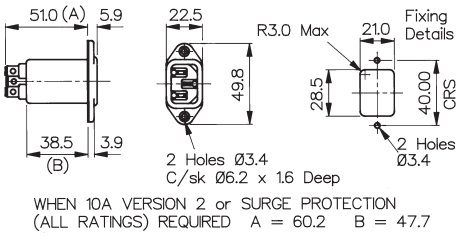
IEC Power Inlets Flange and Snap Fit

Panel Mounting



Flange PS00/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs

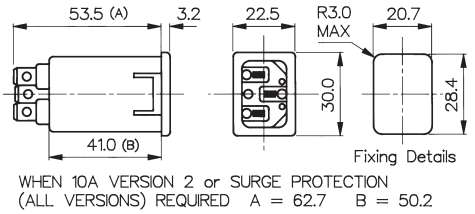


Snap Fit



Snap Fit PS01/A

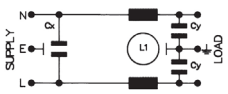
- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs
- 1, 1.5, 2 or 3mm panels



How to order -

PS00/A or PS01/A	XX	X	0	/	63	XX
Series	**Rating**	**L/C Circuit**	**Additional Components**		**Tag Type and Configuration**	**Panel Thickness**
PS00/A	01 = 1A	1 = Version 1	0 = None		63 = 6.3mm tabs	00 = Flange
PS01/A	03 = 3A	2 = Version 2				10 = 1.0mm
	06 = 6A	3 = Version 3				15 = 1.5mm
	10 = 10A					20 = 2.0mm
						30 = 3.0mm

Circuit Board Diagram



Specification	PS00/Axxxx/xx00	PS01/Axxxx/xxxx
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz
Earth Leakage Current:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)
Temperature Range:	–25ºC to +85ºC	–25ºC to +85ºC
Max. Ambient Temp: (@ Full Load)	40ºC (derate linearly to 0A @ 85ºC)	40ºC (derate linearly to 0A @ 85ºC)
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral
Approvals:		
Mating Connectors:	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588
RoHS	Compliant	Compliant

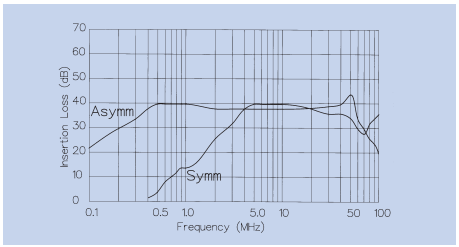
Part No. Example

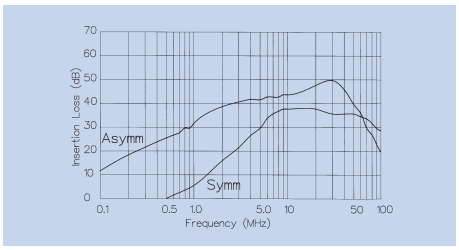
PS00/A0120/6300

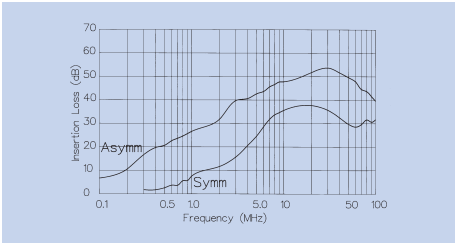
PS00 series, flange fitting, standard filtered IEC power inlet, rated at 1 ampere. L/C circuit version 2, i.e. L1 = 2 x 10mH, Cx = 15nF, Cy = 2 x 2.2nF. 6.3mm tabs.

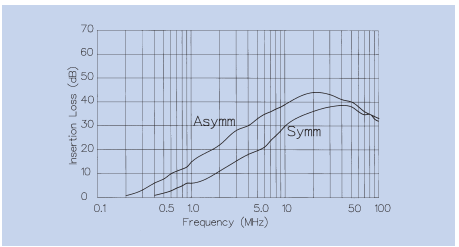
Rating	Version	L1	Cx	Cy
1 AMP	1	2 x 2.8mH	1 x 15nF	2 x 2.2nF
“	2	2 x 10mH	1 x 15nF	2 x 2.2nF
“	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1	2 x 0.75mH	1 x 15nF	2 x 2.2nF
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3	2 x 1.8mH	1 x 47nF	2 x 2.2nF
6 AMP	1	2 x 0.3mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.7mH	1 x 47nF	2 x 2.2nF
10 AMP	1	2 x 0.17mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.35mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.17mH	1 x 47nF	2 x 2.2nF

Version 1

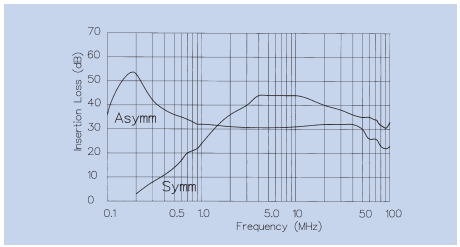


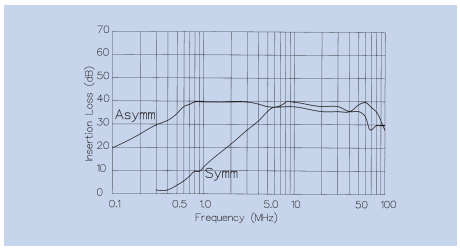


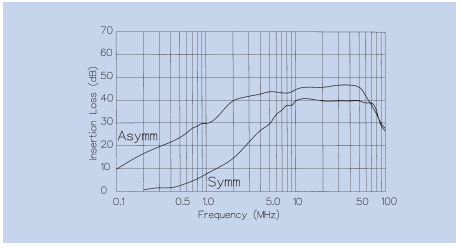


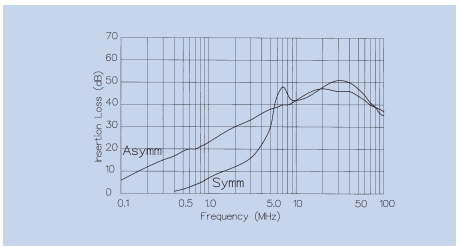


Version 2

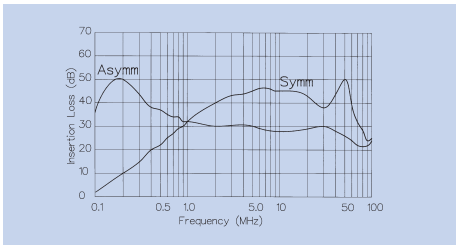


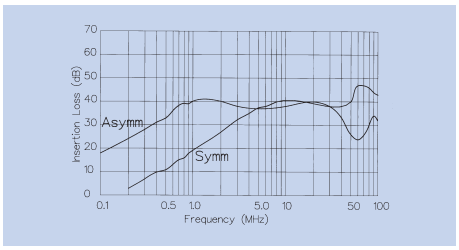


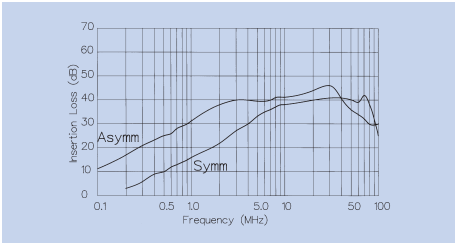


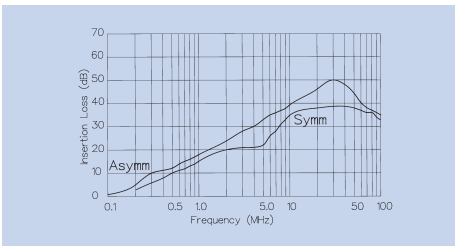


Version 3









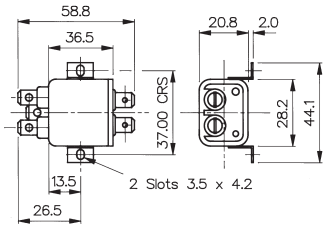
Base Mounting and Bulkhead

Base Mounting



Base Mounting PS02/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs

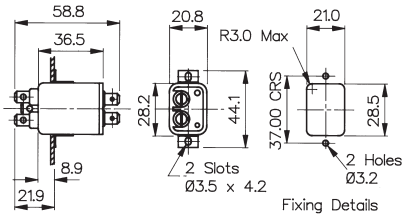


Bulkhead Mounting



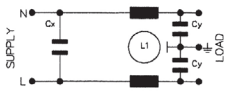
Bulkhead Mounting PS03/A

- 1, 3, 6 or 10 Amp Current Rating
- 3 Alternative Circuits
- No additional components
- 6.3mm tabs



How to order -

PS02/A or PS03/A	XX	X	0	/	63

Series	Rating	L/C Circuit	Additional Components	Tag Type and Configuration	Circuit Board Diagram
PS02/A	01 = 1A	1 = Version 1	0 = None	63 = 6.3mm tabs	
PS03/A	03 = 3A	2 = Version 2			
	06 = 6A	3 = Version 3			
	10 = 10A				

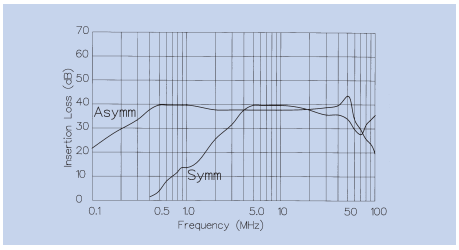
Specification	PS02/Axxxx/xx	PS03/Axxxx/xx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz	PS02/A0120/63
Earth Leakage Current:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)	PS02 series, standard base mounting filter, rated at 3 amperes. L/C circuit version 1, i.e. L1 = 2 x 0.75mH, Cx = 15nF, Cy = 2 x 2.2nF with 2.8mm tabs.
Temperature Range:	–25ºC to +85ºC	–25ºC to +85ºC	
Max. Ambient Temp: (@ Full Load)	40ºC (derate linearly to 0A @ 85ºC)	40ºC (derate linearly to 0A @ 85ºC)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:			
RoHS	Compliant	Compliant	

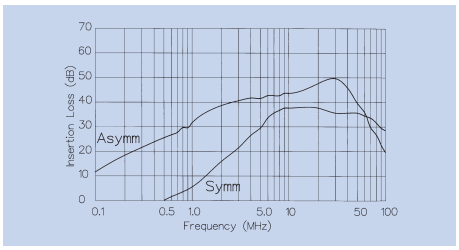
PS02/Axxxx/xx & PS03/Axxxx/xx

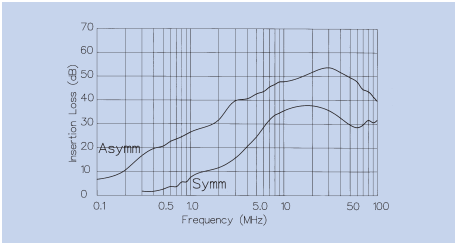
Rating & Version Table

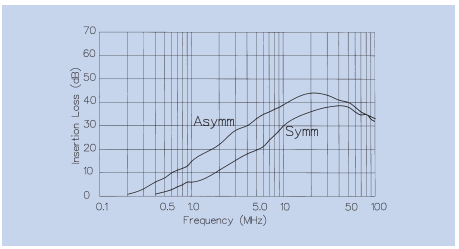
Rating	Version	L1	Cx	Cy
1 AMP	1	2 x 2.8mH	1 x 15nF	2 x 2.2nF
“	2	2 x 10mH	1 x 15nF	2 x 2.2nF
“	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1	2 x 0.75mH	1 x 15nF	2 x 2.2nF
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3	2 x 1.8mH	1 x 47nF	2 x 2.2nF
6 AMP	1	2 x 0.3mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.7mH	1 x 47nF	2 x 2.2nF
10 AMP	1	2 x 0.17mH	1 x 15nF	2 x 2.2nF
“	2	2 x 0.35mH	1 x 15nF	2 x 2.2nF
“	3	2 x 0.17mH	1 x 47nF	2 x 2.2nF

Version 1

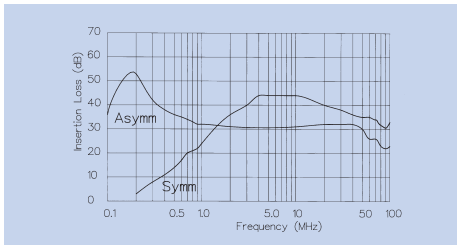


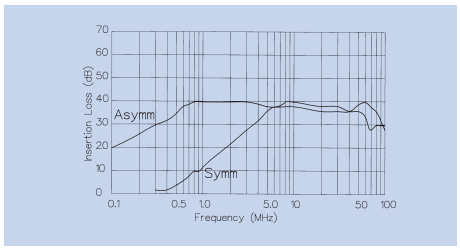


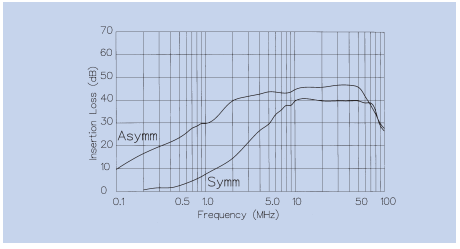


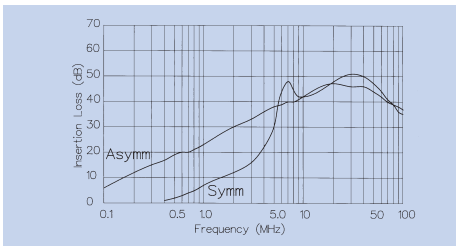


Version 2

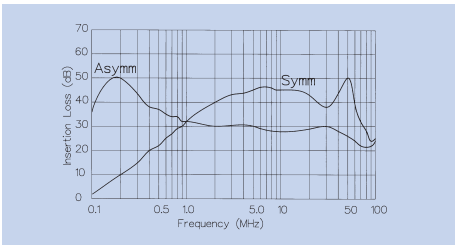


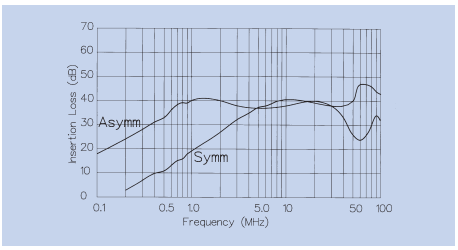


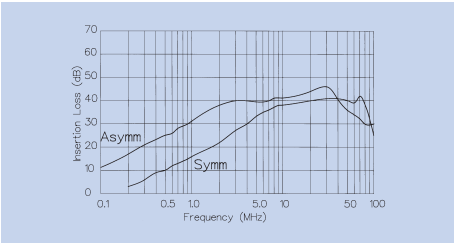


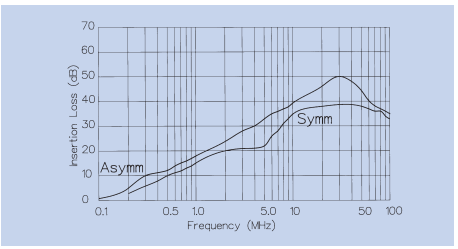


Version 3









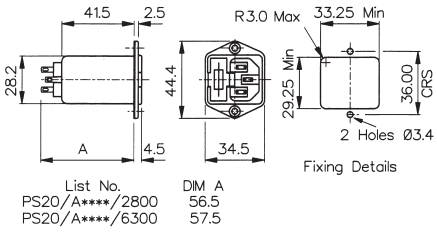
IEC Power Inlets (Single Fused)

Panel Mounting



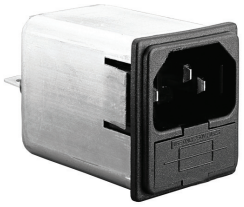
PS20/A

- 1, 3, or 6 Amp Current Rating
- Single Fused
- 2 Alternative Circuits
- 6.3mm tabs



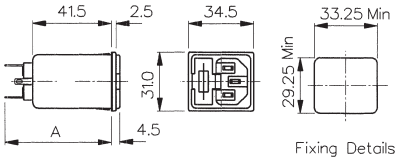
List No.	DIM A
PS20/A****/2800	56.5
PS20/A****/6300	57.5

Snap Fit



PS21/A

- 1, 3, or 6 Amp Current Rating
- Single Fused
- 2 Alternative Circuits
- 6.3mm tabs
- 1, 1.5, 2 or 3mm panels

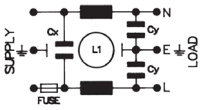


List No.	DIM A
PS21/A****/28**	56.5
PS21/A****/63**	57.5

How to order -

PS02/A or PS03/A	XX	X	0	/ 63	/ XX
Series	**Rating**	**L/C Circuit**	**Additional Components**	**Tag Type and Configuration**	**Panel Thickness**
PS00/A	01 = 1A	2 = Version 2	0 = None	63 = 6.3mm tabs	00 = Flange
PS01/A	03 = 3A	3 = Version 3			10 = 1.0mm
	06 = 6A				15 = 1.5mm
					20 = 2.0mm
					30 = 3.0mm

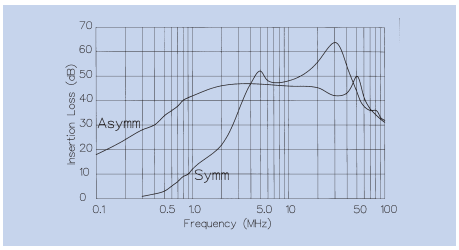
Circuit Board Diagram

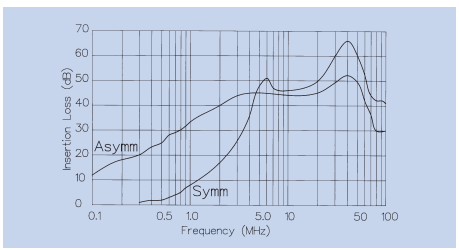


Specification	PS20/Axxx0/xx00	PS21/Axxx0/xxxx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz	PS20/A0620/63
Earth Leakage Current:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)	PS20 series, flange fitting, standard filtered IEC power inlet, single fused, rated at 6 amperes. L/C circuit version 2, i.e L1 = 2 x 0.7mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF. 6.3mm tabs.
Temperature Range:	–25ºC to +85ºC	–25ºC to +85ºC	
Max. Ambient Temp: (@ Full Load)	40ºC (derate linearly to 0A @ 85ºC)	40ºC (derate linearly to 0A @ 85ºC)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:			
RoHS	Compliant	Compliant	

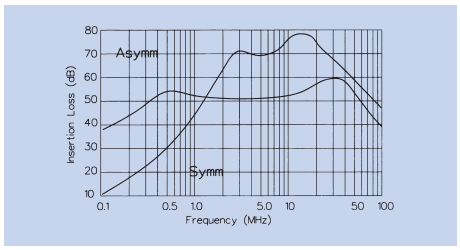
Rating	Version	L1	Cx	Cy
1 AMP	1			
“	2			
“	3	2 x 10mH	1 x 47nF	2 x 2.2nF
3 AMP	1			
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3	2 x 6.5mH	1 x 47nF	2 x 2.2nF
6 AMP	1			
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3	2 x 2mH	1 x 47nF	2 x 2.2nF

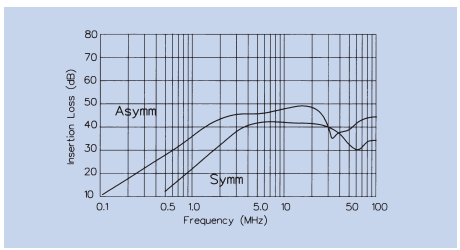
Version 2

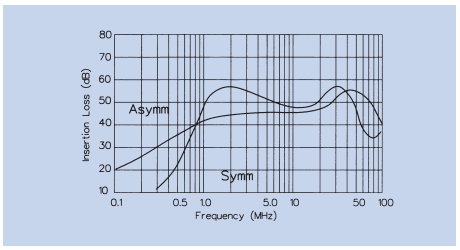




Version 3

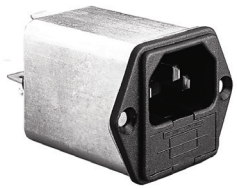






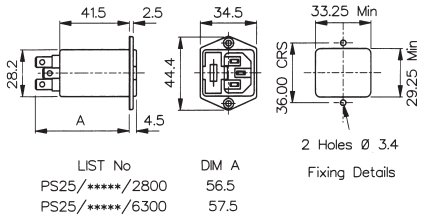
IEC Power Inlets Flange and Snap Fit (Twin Fused)

Base Mounting



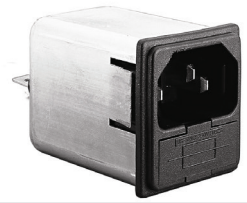
PS25/A

- 2 or 4 Amp Current Rating
- Twin Fused
- No additional components
- 6.3mm tabs



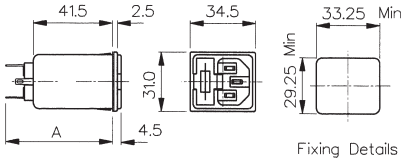
LIST No	DIM A
PS25/*****/2800	56.5
PS25/*****/6300	57.5

Snap Fit



PS26/A

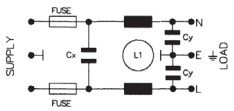
- 2 or 4 Amp Current Rating
- Twin Fused
- No additional components
- 6.3mm tabs
- 1, 1.5, 2 or 3mm panels



List No.	DIM A
PS23/A****/28**	56.5
PS23/A****/63**	57.5

How to order -

PS25/A or PS26/A	X	2	0	/ 63	/ XX

Series	Rating	L/C Circuit	Additional Components	Tag Type and Configuration	Panel Thickness	Circuit Board Diagram
PS25/A	02 = 2A	2 = Version 2	0 = None	63 = 6.3mm tabs	00 = Flange	
PS26/A	04 = 4A				10 = 1.0mm	
					15 = 1.5mm	
					20 = 2.0mm	
					30 = 3.0mm	

Specification	PS25/Axx2x/xx00	PS26/Axx2x/xxxx	Part No. Example
Max. Working Voltage:	250V a.c. 50-400Hz	250V a.c. 50-400Hz	PS20/A0620/63
Earth Leakage Current:	2.5W per fuse	2.5W per fuse	PS20 series, flange fitting, standard filtered IEC power inlet, single fused, rated at 6 amperes. L/C circuit version 2, i.e L1 = 2 x 0.7mH, Cx = 1 x 15nF, Cy = 2 x 2.2nF. 6.3mm tabs.
Temperature Range:	<0.35mA (250V, 50Hz)	<0.35mA (250V, 50Hz)	
Max. Ambient Temp: (@ Full Load)	40ºC (derate linearly to 0A @ 85ºC)	40ºC (derate linearly to 0A @ 85ºC)	
Test Voltage:	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	2700V d.c. 2 secs. Lines to Earth 1100V d.c. 2 secs. Live to Neutral	
Approvals:			
Mating Connectors	PX0587, PX0587/SE, PX0588	PX0587, PX0587/SE, PX0588	
Accessories	P.No. 14340 (see page 151)	P.No. 14340 (see page 151)	
RoHS	Compliant	Compliant	

Rating	Version	L1	Cx	Cy
1 AMP	1			
“	2	2 x 1.8mH	1 x 15nF	2 x 2.2nF
“	3			
3 AMP	1			
“	2	2 x 0.7mH	1 x 15nF	2 x 2.2nF
“	3			

Version 2

