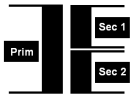
Series characteristics

Series	PN
Type of construction	Enclosed
Ingress protection index	IP40
Ambient operating temperature min. ~ max.	-5 … +30°C
Operational temperature rise	+ 55°C
Operating humidity RH non-condensing	20 ~ 90%
Operating altitude above sea level max.	≤ 1000 M
Protective earth class	Class 1
Cooling class	AN (Air Natural)
Insulation class	Class B 130°C
Short-circuit / overload protection (Internal device fitted)	Prim input "T" fuse (Glass fuse)
Over-load protection (external device required)	Not required, incorporated within via prim input
Isolation Pri/Earth, Pri/Sec1/Sec2, Sec1/Sec2/Earth	4.0kV

IP40



Sec 1 & Sec 2 may be connected for parallel or series using links provided

Isolating short circuit proof

Safety Isolating short circuit proof

ASNZS / IEC 61558

NEW ZEALAND MADE

Product specifications

Product	Prim Input Volt (vac)	Prim Input Current F/L (A)	Prim Fuse value (A)	Prim in-rush current F/L (A)	Sec Output volt F/L (vac)	Sec output volt O/C (vac)	Sec Output Current F/L (A)	Total power rating (V.A)	Freq-uency range (Hz)	Max overload capacity (%)	Short-circuit voltage (%)	Core Excite (mag) Current (A)	Nominal Loss (W)	Isolation Class	Manufactured Standard ASNZS
PN08	230	0.44	T0.50	9.90	Parallel 115 Series 230	Parallel 121.0 Series 242.0	Parallel 0.87 Series 0.44	100	47 ~ 63	125	8.2	0.050	5.8	Isolating	ASNZS 61558.2.4
PN10	230	0.87	T1.00	19.6	Parallel 115 Series 230	Parallel 119.6 Series 239.2	Parallel 1.74 Series 0.87	200	47 ~ 63	125	5.2	0.076	8.7	Isolating	ASNZS 61558.2.4
PN11	230	1.09	T1.25	24.5	Parallel 115 Series 230	Parallel 119.5 Series 239.0	Parallel 2.17 Series 1.09	250	47 ~ 63	125	4.3	0.087	10.0	Isolating	ASNZS 61558.2.4
PN12	230	1.30	T1.60	29.3	Parallel 115 Series 230	Parallel 119.6 Series 239.2	Parallel 2.61 Series 1.30	300	47 ~ 63	125	3.8	0.100	11.5	Isolating	ASNZS 61558.2.4
PN13	230	1.74	T2.00	39.2	Parallel 115 Series 230	Parallel 120.7 Series 241.4	Parallel 3.48 Series 1.74	400	47 ~ 63	125	4.6	0.239	27.5	Isolating	ASNZS 61558.2.4
PN14	230	2.17	T2.50	48.8	Parallel 115 Series 230	Parallel 121.7 Series 243.4	Parallel 4.35 Series 2.17	500	47 ~ 63	125	5.8	0.250	28.8	Isolating	ASNZS 61558.2.4
PN15	230	2.61	T3.15	58.7	Parallel 115 Series 230	Parallel 119.6 Series 239.2	Parallel 5.22 Series 2.61	600	47 ~ 63	125	3.8	0.284	32.7	Isolating	ASNZS 61558.2.4
PN16	230	3.48	T4.00	78.3	Parallel 115 Series 230	Parallel 121.0 Series 242.0	Parallel 6.96 Series 3.48	800	47 ~ 63	125	3.2	0.330	38.0	Isolating	ASNZS 61558.2.4
PN17	230	4.35	T5.00	97.9	Parallel 115 Series 230	Parallel 121.4 Series 242.8	Parallel 8.70 Series 4.35	1000	47 ~ 63	125	2.9	0.400	46.0	Isolating	ASNZS 61558.2.4
PN19	230	6.52	T8.00	146	Parallel 115 Series 230	Parallel 118.6 Series 237.2	Parallel 13.0 Series 6.52	1500	47 ~ 63	125	2.8	0.540	62.1	Isolating	ASNZS 61558.2.4
PN21	230	8.70	T10.0	196	Parallel 115 Series 230	Parallel 118.2 Series 236.4	Parallel 17.4 Series 8.70	2000	47 ~ 63	125	2.5	0.740	85.1	Isolating	ASNZS 61558.2.4
PN23	230	13.0	T15.0	293	Parallel 115 Series 230	Parallel 118.0 Series 236.0	Parallel 26.1 Series 13.0	3000	47 ~ 63	125	2.2	0.840	96.6	Isolating	ASNZS 61558.2.4

"T" fuse = time delayed fuse (slow blow) no rupture during inrush start-up
"C" MCB = fast trip

"D" MCB = time delayed MCB no trip during inrush start-up
F/L = full load current

"F" fuse = fast blow (normal blow)
O/C = open circuit no load

Product	Prim Input Volt (vac)	Prim Input Current F/L (A)	Prim Fuse value (A)	Prim in-rush current F/L (A)	Sec Output volt F/L (vac)	Sec output volt O/C (vac)	Sec Output Current F/L (A)	Total power rating (V.A)	Freq-uency range (Hz)	Max overload capacity (%)	Short-circuit voltage (%)	Core Excite (mag) Current (A)	Nominal Loss (W)	Isolation Class	Manufactured Standard ASNZS
PN30	400	0.25	T0.25	5.63	Parallel 115 Series 230	Parallel 121.0 Series 242.0	Parallel 0.87 Series 0.44	100	47 ~ 63	125	9.0	0.030	6.0	Isolating	ASNZS 61558.2.4
PN32	400	0.50	T0.50	11.3	Parallel 115 Series 230	Parallel 119.6 Series 239.2	Parallel 1.74 Series 0.87	200	47 ~ 63	125	5.4	0.043	8.6	Isolating	ASNZS 61558.2.4
PN33	400	0.63	T0.63	14.2	Parallel 115 Series 230	Parallel 119.5 Series 239.0	Parallel 2.17 Series 1.09	250	47 ~ 63	125	4.5	0.051	10.2	Isolating	ASNZS 61558.2.4
PN34	400	0.75	T0.75	16.9	Parallel 115 Series 230	Parallel 119.6 Series 239.2	Parallel 2.61 Series 1.30	300	47 ~ 63	125	5.0	0.056	11.2	Isolating	ASNZS 61558.2.4
PN35	400	1.00	T1.00	22.5	Parallel 115 Series 230	Parallel 120.6 Series 241.2	Parallel 3.48 Series 1.74	400	47 ~ 63	125	10	0.139	36	Isolating	ASNZS 61558.2.4
PN36	400	1.25	T1.25	28.1	Parallel 115 Series 230	Parallel 121.6 Series 243.2	Parallel 4.35 Series 2.17	500	47 ~ 63	125	4.4	0.150	30.0	Isolating	ASNZS 61558.2.4
PN37	400	1.50	T1.60	33.8	Parallel 115 Series 230	Parallel 119.8 Series 239.6	Parallel 5.22 Series 2.61	600	47 ~ 63	125	5.6	0.176	35.2	Isolating	ASNZS 61558.2.4
PN38	400	2.00	T2.00	45.0	Parallel 115 Series 230	Parallel 121.4 Series 242.8	Parallel 6.96 Series 3.48	800	47 ~ 63	125	3.8	0.192	38.4	Isolating	ASNZS 61558.2.4
PN39	400	2.50	T2.50	56.3	Parallel 115 Series 230	Parallel 121.5 Series 243.0	Parallel 8.70 Series 4.35	1000	47 ~ 63	125	3.1	0.230	46.0	Isolating	ASNZS 61558.2.4
PN41	400	3.75	T4.00	84.4	Parallel 115 Series 230	Parallel 118.4 Series 236.8	Parallel 13.0 Series 6.52	1500	47 ~ 63	125	2.9	0.310	62.0	Isolating	ASNZS 61558.2.4
PN43	400	5.00	T5.00	112.5	Parallel 115 Series 230	Parallel 118.3 Series 236.6	Parallel 17.4 Series 8.70	2000	47 ~ 63	125	2.6	0.430	86.0	Isolating	ASNZS 61558.2.4
PN45	400	7.50	T8.00	168.8	Parallel 115 Series 230	Parallel 118.2 Series 236.4	Parallel 26.1 Series 13.0	3000	47 ~ 63	125	2.6	0.480	96.0	Isolating	ASNZS 61558.2.4

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F/L = full load current

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O/C = open circuit no load

Product	Prim Input Volt (vac)	Prim Input Current F/L (A)	Prim Fuse value (A)	Prim in-rush current F/L (A)	Sec Output volt F/L (vac)	Sec output volt O/C (vac)	Sec Output Current F/L (A)	Total power rating (V.A)	Freq-uency range (Hz)	Max overload capacity (%)	Short-circuit voltage (%)	Core Excite (mag) Current (A)	Nominal Loss (W)	Isolation Class	Manufactured Standard ASNZS
PN53	230	0.44	T0.500	9.90	Parallel 12 Series 24	Parallel 13.6 Series 27.2	Parallel 8.33 Series 4.17	100	47 ~ 63	125	9.1	0.051	5.9	Safety Isolating	ASNZS 61558.2.6
PN55	230	0.87	T1.00	19.6	Parallel 12 Series 24	Parallel 12.7 Series 25.4	Parallel 16.7 Series 8.33	200	47 ~ 63	125	5.6	0.073	8.4	Safety Isolating	ASNZS 61558.2.6
PN56	230	1.09	T1.25	24.5	Parallel 12 Series 24	Parallel 12.5 Series 25.0	Parallel 20.8 Series 10.4	250	47 ~ 63	125	4.7	0.087	10.0	Safety Isolating	ASNZS 61558.2.6
PN57	230	1.30	T1.60	29.3	Parallel 12 Series 24	Parallel 12.7 Series 25.4	Parallel 25.0 Series 12.5	300	47 ~ 63	125	5.9	0.100	11.5	Safety Isolating	ASNZS 61558.2.6
PN58	230	1.74	T2.00	39.2	Parallel 12 Series 24	Parallel 12.6 Series 25.2	Parallel 33.3 Series 16.7	400	47 ~ 63	125	10	0.175	35.7	Safety Isolating	ASNZS 61558.2.6
PN59	230	2.17	T2.50	48.8	Parallel 12 Series 24	Parallel 12.5 Series 25.0	Parallel 41.7 Series 20.8	500	47 ~ 63	125	10	0.204	43	Safety Isolating	ASNZS 61558.2.6
PN60	230	2.61	T3.15	58.7	Parallel 12 Series 24	Parallel 12.6 Series 25.2	Parallel 50.0 Series 25.0	600	47 ~ 63	125	4.3	0.284	32.7	Safety Isolating	ASNZS 61558.2.6
PN61	230	3.48	T4.00	78.3	Parallel 12 Series 24	Parallel 12.9 Series 25.8	Parallel 66.7 Series 33.3	800	47 ~ 63	125	3.8	0.330	38.0	Safety Isolating	ASNZS 61558.2.6
PN62	230	4.35	T5.00	97.9	Parallel 12 Series 24	Parallel 12.8 Series 25.6	Parallel 83.3 Series 41.7	1000	47 ~ 63	125	10	0.400	46.0	Safety Isolating	ASNZS 61558.2.6
PN69	400	0.25	T0.25	5.63	Parallel 12 Series 24	Parallel 13.6 Series 27.2	Parallel 8.33 Series 4.17	100	47 ~ 63	125	11.3	0.051	5.9	Safety Isolating	ASNZS 61558.2.6
PN71	400	0.50	T0.50	11.3	Parallel 12 Series 24	Parallel 12.7 Series 25.4	Parallel 16.7 Series 8.33	200	47 ~ 63	125	10	0.073	8.4	Safety Isolating	ASNZS 61558.2.6
PN72	400	0.63	T0.63	14.2	Parallel 12 Series 24	Parallel 12.5 Series 25.0	Parallel 20.8 Series 10.4	250	47 ~ 63	125	4.9	0.087	10.0	Safety Isolating	ASNZS 61558.2.6
PN73	400	0.75	T0.75	16.9	Parallel 12 Series 24	Parallel 12.7 Series 25.4	Parallel 25.0 Series 12.5	300	47 ~ 63	125	4.0	0.100	11.5	Safety Isolating	ASNZS 61558.2.6
PN74	400	1.00	T1.00	22.5	Parallel 12 Series 24	Parallel 12.6 Series 25.2	Parallel 33.3 Series 16.7	400	47 ~ 63	125	5.6	0.239	27.5	Safety Isolating	ASNZS 61558.2.6
PN75	400	1.25	T1.25	28.1	Parallel 12 Series 24	Parallel 12.5 Series 25.0	Parallel 41.7 Series 20.8	500	47 ~ 63	125	4.8	0.250	28.8	Safety Isolating	ASNZS 61558.2.6
PN76	400	1.50	T1.60	33.8	Parallel 12 Series 24	Parallel 12.6 Series 25.2	Parallel 50.0 Series 25.0	600	47 ~ 63	125	4.4	0.284	32.7	Safety Isolating	ASNZS 61558.2.6
PN77	400	2.00	T2.00	45.0	Parallel 12 Series 24	Parallel 12.9 Series 25.8	Parallel 66.7 Series 33.3	800	47 ~ 63	125	10	0.330	38.0	Safety Isolating	ASNZS 61558.2.6
PN78	400	2.50	T2.50	56.3	Parallel 12 Series 24	Parallel 12.8 Series 25.6	Parallel 83.3 Series 41.7	1000	47 ~ 63	125	10	0.400	46.0	Safety Isolating	ASNZS 61558.2.6

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F/L = full load current

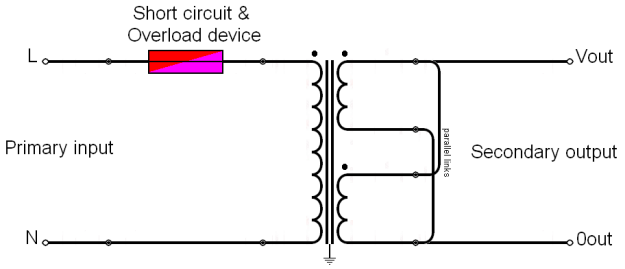
"F" fuse = fast blow (normal blow)
O/C = open circuit no load

Terminations

Voltage	VA rating	Prim input termination	Prim input lead colours	Prim input lead length	Sec output termination	Sec output lead colours	Sec output lead length
12vac or 24vac	100 ~ 1000	-	-	-	4-way terminal block	Sec 1 = White – black Sec 2 = Blue – Orange	-
115vac or 230vac	100 ~ 3000	-	-	-	4-way terminal block	Sec 1 = White – Brown Sec 2 = Blue – Orange	-
230vac	100 ~ 3000	3-way fuse terminal block	Blue – Brown	-	-	-	-
400vac	100 ~ 3000	3-way fuse terminal block	Red – Red	-	-	-	-

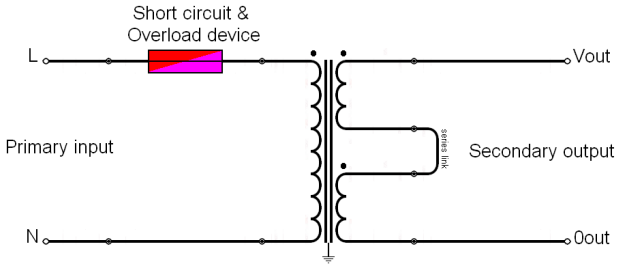
Schematic diagram

Single phase input 230vac / output parallel



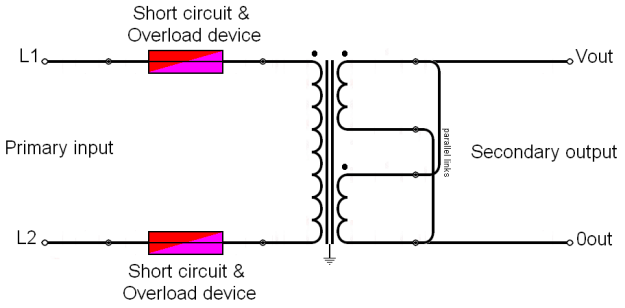
Note - Primary input short circuit & overload slow blow protection fusing fitted.

Single phase input 230vac / output series



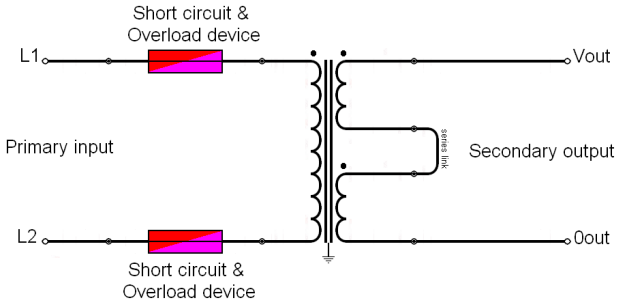
Note - Primary input short circuit & overload slow blow protection fusing fitted.

Two phase input 400vac / output parallel



Note - Primary input short circuit & overload slow blow protection fusing fitted.

Two phase input 400vac / output series



Note - Primary input short circuit & overload slow blow protection fusing fitted.

Dimensions

Product VA rating	H Height (mm)	W Width (mm)	D Depth (mm)	Mounting centres (mm)	Mounting fixings	Weight (kg)	Misc. (Cable entry holes with blanks fitted)
100V.A ~ 300V.A	160	160	200	140 (Wc) x 140 (Dc)	Ø 8.5 mm	100V,A = 3.6kg 200V.A = 5.8kg 250V.A = 6.0kg 300V.A = 6.2kg	M16 & M20
400V.A ~ 1000V.A	210	200	250	180 (Wc) x 180 (Dc)	Ø 8.5 mm	400V.A = 8.6kg 500V.A = 9.6kg 600V.A = 10.4kg 800V.A = 12.8kg 1000V.A = 14.8kg	M16 & M20
1500V.A ~ 3000V.A	295	250	300	230 (Wc) x 230 (Dc)	Ø 8.5 mm	1500V.A = 18.0kg 2000V.A = 24.0kg 3000V.A = 29.0kg	M16 & M20

Drawings

Enclosed transformers rated 100~3000V.A

Vented enclosure