Technical specification of the FPF-285 filter type for the Hitachi L100/SJ100 series

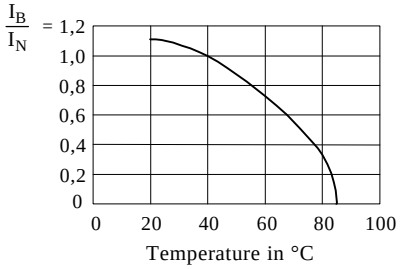
	FPF-285-E-1-007	FPF-285-E-1-012	FPF-285-E-1-024	FPF-285-F-3-007	FPF-285-F-3-011	FPF-285-F-3-020
Voltage in V	240 +5%	240 +5%	240 +5%	460 +10%	460 +10%	460 +10%
Current in A at 40°C	2 x 7A	2 x 12A	2 x 24A	3 x 7A	3 x 11A	3 x 20A
Leakage current in mA/phase/50Hz worst case 1)				32	62	120
Leakage current in mA/phase/50Hz U_n 2)	< 3,5	< 3,5	< 15	< 3,5	< 3,5	< 10
Test voltage in V DC for 2s ph./ph., ph./ground	1400 / 2800	1400 / 2800	1400 / 1400	1978 / 2800	1978 / 2800	1978 / 1978
Dimensions Single wire / litze	4 / 4 mm²	4 / 4 mm²	4 / 4 mm²	4 / 4 mm²	4 / 4 mm²	4 / 4 mm²
Output cable	2x1,5mm²	2x1,5mm²	2x2,5mm²	3x1,5mm²	3x2,5mm²	3x2,5mm²
Weight in kg (approx.)	0,5	0,7	1,0	0,8	1,1	2,4
Heat dissipation in W (approx.)	6	7	9	7	10	14

1). “Worst case” states the leakage current for three-phase filters in the worst of cases. That means one phase is live and two phases of the feed-line lead-in are interrupted. These maximum values are based on an operating voltage of 460 V (ph./ph.).

2) The normal leakage current for three-phase filters is stated. This means the filter is operating on 460 V (ph./.ph.). The stated values are adhered to up to a neutral voltage of 5V to ground caused by line unbalance.

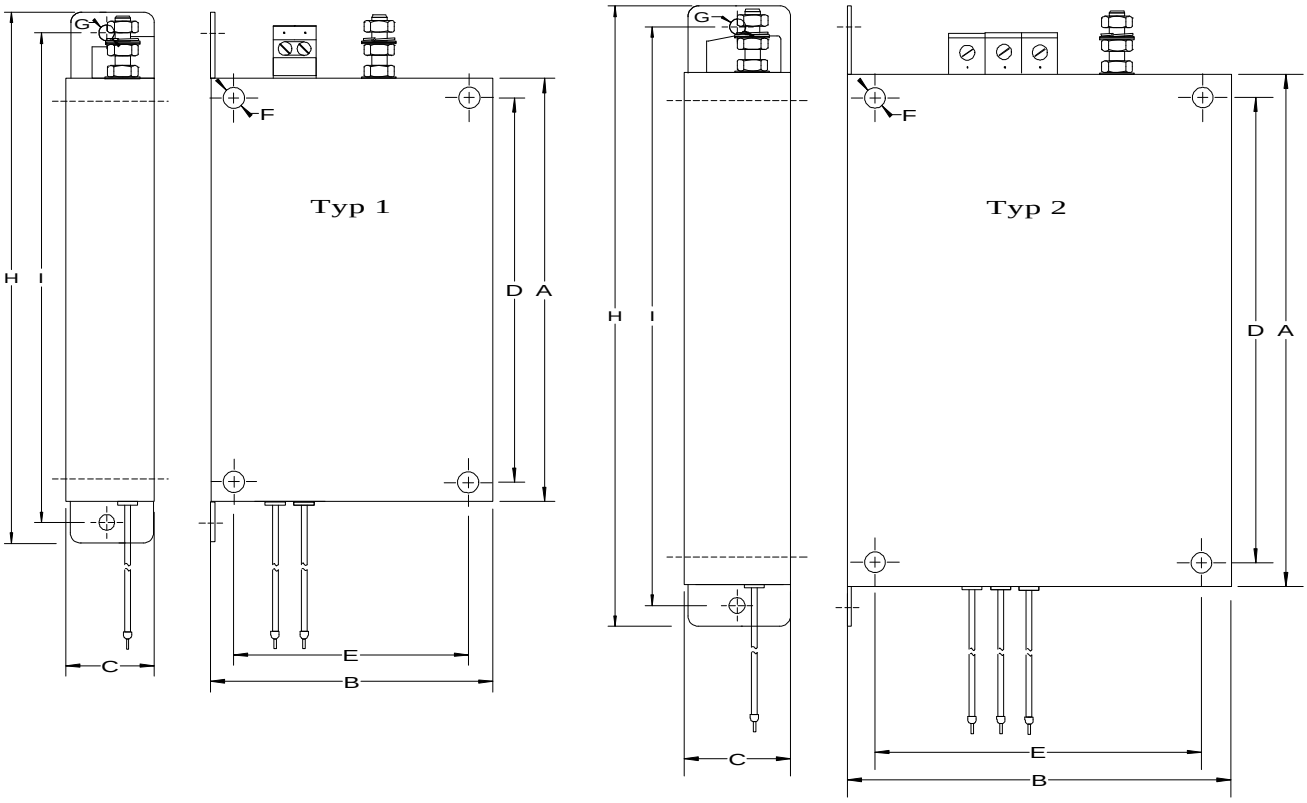
Current	at 40°C ambient temperature
Overload	1.5 x I_N for 10min
Frequency	50 / 60 Hz
Material	Steel, surface refined
Humidity class	C
Operation height	< 1000 m without derating; > 1000 m, I_N-2%, for each 1000m
Temperature range	-25°C through +85°C
Enclosure	Input terminals IP 20 and PE-holder. Load side: cable, unshielded.

Relationship current / ambient temperature:



Dimensions

Dimensions (in mm)										
Model:	Typ	A	B	C	D	E	F	G	H	I
FPF-285-E-1-007	1	120	80	27	110	67	2x6	2x5	155	145
FPF-285-E-1-012	1	130	110	27	118	98	4x6	2x5	165	155
FPF-285-E-1-024	1	180	140	29	168	128	4x6	2x5	215	205
FPF-285-F-3-007	2	130	110	27	118	98	4x6	2x5	160	150
FPF-285-F-3-011	2	180	140	31	168	128	4x6	2x5	210	200
FPF-285-F-3-020	2	257	182	35	236	160	4x7	2x5	287	277



Inverter Type	Voltage Class	Filter Type
L100/SJ100-002 NFE	1 ~ 220V -10% to 240V +5%	FPF-285-E-1-007
L100/SJ100-004 NFE, SJ100-005NFE		FPF-285-E-1-007
L100-005 NFE		FPF-285-E-1-012
L100/SJ100-007 NFE SJ100-011NFE		FPF-285-E-1-012
L100-011 NFE		FPF-285-E-1-024
L100/SJ100-015 NFE		FPF-285-E-1-024
L100/SJ100-022 NFE		FPF-285-E-1-024
L100/SJ100-004 HFE	3 ~ 380 V -10% to 460V +10%	FPF-285-F-3-007
L100/SJ100-007 HFE		FPF-285-F-3-007
L100/SJ100-015 HFE SJ100-022HFE		FPF-285-F-3-007
L100-022 HFE		FPF-285-F-3-011
L100/SJ100-030 HFE		FPF-285-F-3-011
L100/SJ100-040 HFE		FPF-285-F-3-011
L100/SJ100-055 HFE		FPF-285-F-3-020
L100/SJ100-075 HFE		FPF-285-F-3-020

Note: All filters developed for 50/60Hz +/-5%