

## INDUCTORS, TRANSFORMERS & CHOKES

### MEDIUM POWER INDUSTRIAL APPLICATIONS

These preferential lists of inductors, transformers, and chokes are optimized for medium power industrial applications (up to 2 kW) such as inverters, drive controls, and three-phase equipment. These industrial products from the product group located in Southern France (Pulse SA, Orgelet, France) compliment the broad selection of Power solutions. For a complete list of products and further details, see data sheet PF500 on the Pulse Web site at <http://www.pulseeng.com> or contact your local Pulse Account Manager, Distributor, or Representative.

Inductors (select list)				
Part Number	Nominal Current ldc (A)	L @ ldc (µH TYP)	Package L/W/H (mm)	Data Sheet
<b>CHOKES</b>				
FSM22	0.65	225	19 / 9 / 16	PF500
FEE160-2-2	0.75	80	19 / 9 / 16	PF500
FSM32	0.65	225	18 / 13 / 20	PF500
FSM21	1.00	100	19 / 9 / 16	PF500
FEE300-2-2	3.00	25	19 / 9 / 16	PF500
FEE212-3-2	1.00	300	18 / 13 / 20	PF500
FEE212-3-3	1.00	300	17,5 / 17,5 / 12,5	PF500
FEE290-3-2	1.50	150	18 / 13 / 20	PF500
FEE290-3-3	1.50	150	17,5 / 17,5 / 12,5	PF500
FST211	1.00	400	23 / 15,5 / 25	PF500
FEE210-3-2	1.50	225	18 / 13 / 20	PF500
FEE222-3-2	0.90	700	18 / 13 / 20	PF500
FST220	2.50	120	23 / 15,5 / 25	PF500
FEE600-4-9	1.50	400	19 / 14 / 29,5	PF500
FEE615-4-9	3.00	100	19 / 14 / 29,5	PF500
FEE630-7-9	5.00	119	29,1 / 24 / 42	PF500
FEE402-5-2	1.00	1000	27 / 18 / 30	PF500
FEE510-6-2	2.50	225	32 / 18 / 35	PF500
FEE665-7-9	4.50	252	29,1 / 24 / 42	PF500

Inductor Usage Table														
l <sub>dc</sub> (µH) Current (A)	25	63	80	100	120	150	200	225	250	300	400	630	700	1000
0.315														
0.50														
0.65														
0.75														
0.90														
1.00														
1.50														
2.50														
3.00														
4.00														
5.00														
6.00														
8.00														
10.0														

NOTE: Outlined areas are possible uses of the inductors.

Current Sense Transformers (25 Amps)						
Part Number	Prim/Sec Ratio	Sec L (mH MIN)	Sec DCR (Ω MAX)	ET (µVS MAX)	Package L/W/H (mm)	Data Sheet
FIS105	1/50	4.7	0.5	175	15 / 15 / 15	PF500
FIS115	1/100	1.8	2	350	15 / 15 / 15	PF500
FIS125	1/200	76	4.5	700	15 / 15 / 15	PF500
FIS135	1/300	160	8	1150	15 / 15 / 15	PF500
FIS145	1/400	280	14	1400	15 / 15 / 15	PF500
FIS155	1/500	470	16	1750	15 / 15 / 15	PF500
FIS1105	1/1000	1900	50	3500	15 / 15 / 15	PF500

Power Factor Correction Chokes <sup>1</sup>						
Part Number	Power Range (W)	Inductance No Load (µH)	Inductance l <sub>dc</sub> (µH)	RDC Typical (Ω)	Package L/W/H (mm)	Data Sheet
FEE804-6-2	200	1100	900 @ 1 A	700	32 / 18 / 35	PF500
FEE805-6-2 <sup>2</sup>	200	1100	100 @ 1 A	700	32 / 18 / 35	PF500
FEE806-6-2	350	700	600 @ 1.5 A	350	32 / 18 / 35	PF500
FEE809-7-2 <sup>3</sup>	450	1100	800 @ 2 A	350	35 / 23 / 37	PF500
FEE810-7-2	450	1100	850 @ 2 A	350	35 / 23 / 37	PF500
FEE811-7-2	550	600	500 @ 2.5 A	200	35 / 23 / 37	PF500
EE815-8-2	700	1250	850 @ 3 A	280	42 / 28 / 45	PF500
FEE816-8-2	800	900	600 @ 3.5 A	190	42 / 28 / 45	PF500
FEE820-8-2 <sup>4</sup>	900	700	550 @ 4 A	140	42 / 28 / 45	PF500
FEE821-8-2 <sup>4</sup>	1100	500	350 @ 5 A	110	42 / 28 / 45	PF500
FEE825-9-4	1100	1150	700 @ 5 A	130	54 / 26 / 52	PF500
FEE826-9-4	1400	750	450 @ 6 A	80	54 / 26 / 52	PF500
FEE830-10-4	1800	950	550 @ 8 A	80	61 / 31 / 58	PF500
FEE831-10-4	2000	550	350 @ 9 A	60	61 / 31 / 58	PF500

1. Winding capacitance minimized by one layer wiring
2. Low loss version of FEE804-6-2
3. Low loss version of FEE809-7-2
4. Compact version

Power Factor Correction Chokes <sup>1</sup>									
Part Number	I (A) <sup>1</sup>	L (mH) <sup>2</sup>	RDC (mW)	F <sub>o</sub> (kHz MIN)	Attenuation (dB at F <sub>o</sub> )	Package D/H <sup>3</sup>	Pin Diam. <sup>3</sup>	Data SHEET	
FE3X050-10-7	6	5.0	25.0	200	48.0	48 / 35	1.10	PF500	
FE3X033-10-7	8	3.1	14.0	200	41.0	48 / 35	1.30	PF500	
FE3X051-10-7	8	5.0	17.0	200	42.0	48 / 35	1.30	PF500	
FE3X032-10-7	12	3.2	9.0	200	37.0	48 / 35	1.50	PF500	
FE3X010-10-7	16	1.1	5.5	600	32.0	48 / 35	1.70	PF500	
FE3X025-10-7	16	2.2	6.3	400	31.0	48 / 35	1.80	PF500	
FE3X032-11-7	16	3.1	6.0	200	33.0	54 / 57	2.30	PF500	
FE3X010-11-7	25	1.0	2.4	600	20.0	54 / 57	2.50	PF500	
FE3X050-13-7	12	5.0	17.5	200	36.5	82 / 48	1.70	PF500	
FE3X051-13-7	16	5.0	12.0	150	46.0	82 / 48	2.10	PF500	
FE3X033-13-7	25	3.1	6.5	200	41.0	82 / 48	2.50	PF500	
FE3X010-13-7	36	1.1	2.8	500	26.0	82 / 48	3.00	PF500	

1. Admissible current at ambient temperature of 40°C
2. +40%, -30%
3. Diameter and height in millimeters (mm)