

12.3 Type LD 1 Direct-current smoothing chokes EI

Appointment of design size for chokes with grid-independent development of inductance.

1. Example:

$$I_{\text{eff}} = 25 \text{ A}; L = 20 \text{ mH} = 0.02 \text{ H}$$

$$LI_{\text{eff}}^2 = 0.02 \times 25 \times 25 = 12.5$$

Next higher value in the following tables

$$LI_{\text{eff}}^2 = 13.7$$

that is Type LD 1 1500

2. Example:

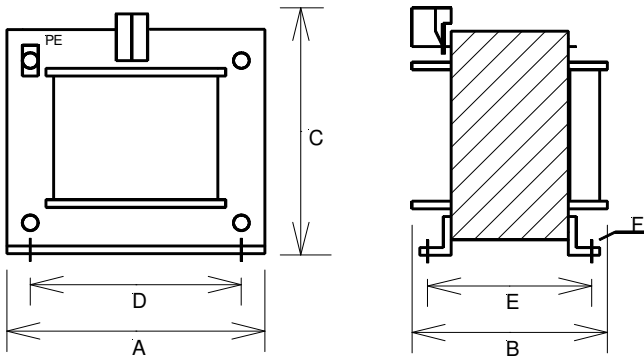
$$I_{\text{eff}} = 39 \text{ A}; L = 20 \text{ mH} = 0.02 \text{ H}$$

$$LI_{\text{eff}}^2 = 0.02 \times 39 \times 39 = 30.42$$

Next higher value in the following tables

$$LI_{\text{eff}}^2 = 31.8$$

that is Type LD 2 35



Type	Mag. load LI_{eff}^2	Total Weight kg	Dimensioning					
			A mm	B mm	C mm	D mm	E mm	F mm
LD 1 0020	0.18	0.8	66	48	75	50	43	4.8
LD 1 0030	0.27	0.9	66	58	75	50	55	4.8
LD 1 0075	0.70	1.5	85	60	85	64	50	4.8
LD 1 0100	0.91	2.0	85	75	85	64	61	4.8
LD 1 0130	1.20	2.5	106	89	95	84	61	5.8
LD 1 0160	1.45	3.1	106	102	95	84	74	5.8
LD 1 0250	2.30	4.2	130	105	120	104	75	5.8
LD 1 0320	2.90	5.1	130	115	120	104	85	5.8
LD 1 0500	4.45	6.6	150	122	140	122	80	7.0
LD 1 0630	5.70	8.0	150	132	140	122	90	7.0
LD 1 0800	7.30	9.5	170	150	150	135	88	7.0
LD 1 1000	9.10	12.0	170	161	155	135	106	7.0
LD 1 1500	13.70	14.5	170	171	155	135	116	7.0