



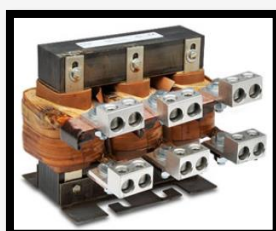
INDUCTORS & REACTORS STANDARD RATING CATALOGUE

We provide a wide range of Transformers and Cubicle Panel Assemblies from understanding the customer's perspective of their requirements & applications, striving to fulfill their present and future expectations with regards to Quality, On-Time Delivery & Services at a reasonable price

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INDUCTORS

Line/Load Reactor (Copper AN)



Line/load reactors are inductors; coils of wire that oppose the flow of alternating current and limit the current that can flow through the circuits into which they are placed. They are used in two principal applications. Load reactors are generally used with motors circuits (load side of a motor drive), while line reactors are used in power distribution (line side of a drive).

DESCRIPTION	DATA
Type of Inductor	Dry type, Iron Core, Impregnated with High Bond Strength and Temperature 220°C Varnish
Current rating	150% of rating - Up to 750A
	125% of rating - Above 750A
	200% of rated for 30 minutes
	300% of rated for 1 minute
Inductance curve	0.95 Ln at 150% rated Current
	0.5 Ln at 350% rated Current
Tolerance for rated inductance	±5%
No. of Phase	3
Nominal frequency (Hz)	50/ 60
Max. Nominal System Voltage	690V
IP Class	0
Insulation class	4 KV
Insulation temp. Class	R (220°C)
Max. Ambient temp. (° C)	(-30) to 40
Winding Temp. rise on ambient (° C).	135
Type of cooling	AN
Maximum switching frequency	20 KHz
Altitude	Up to 2000M
dV/dt	Meets NEMA MG-1, part 31
Conductor	Electrolytic copper

Electrical & Mechanical data

S.N	I (Amps)	Ln (mH)	Weight (Kg)	IP 00 - Size (L X B X H mm)	Mounting pitch and Solt details		
					n1	n2	Slot size
1	1500	0.025	190	520 X 400 X 490	450	225	14 X 28
2	1500	0.015	150	500 X 360 X 490	450	190	14 X 28
3	1500	0.008	110	360 X 360 X 440	300	190	14 X 28
4	1200	0.019	110	450 X 360 X 395	390	180	14 X 28
5	1200	0.009	92	360 X 340 X 395	300	175	14 X 28
6	1200	0.003	70	350 X 300 X 395	300	130	14 X 28
7	1000	0.038	130	430 X 400 X 400	360	220	14 X 28
8	1000	0.022	110	410 X 350 X 400	360	185	14 X 28
9	1000	0.011	65	360 X 300 X 370	300	135	11 X 22
10	750	0.048	110	380 x 350 x 380	330	200	11 X 22
11	750	0.029	80	370 X 320 X 295	330	200	11 X 22
12	750	0.015	55	360 X 270 X 295	300	135	11 X 22
13	500	0.085	85	365 X 335 X 297	300	205	11 X 22
14	500	0.050	63	350 X 290 X 295	300	190	11 X 22
15	500	0.025	53	350 X 250 X 295	300	160	11 X 22

Note: The above mentioned ratings are Standard design offerings of Dynalektrik. Custom solutions are offered based on Customer Requirement.

Line/Load Reactor (Aluminium AN)

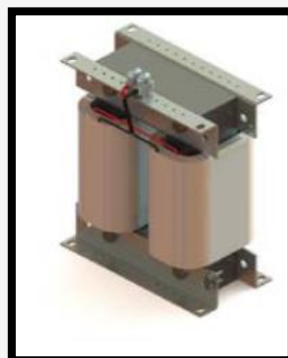
DESCRIPTION	DATA
Type of Inductor	Dry type, Iron Core, Impregnated with High Bond Strength and Temperature 220°C Varnish
Current rating	150% of rating - Up to 750A
	125% of rating - Above 750A
	200% of rated for 30 minutes
	300% of rated for 1 minute
Inductance curve	0.95 Ln at 150% rated Current
	0.5 Ln at 350% rated Current
Tolerance for rated inductance	±5%
No. of Phase	3
Nominal frequency (Hz)	50/ 60
Max. Nominal System Voltage	690V
IP Class	0
Insulation class	4 KV
Insulation temp. Class	R (220°C)
Max. Ambient temp. (° C)	(-30) to 40
Winding Temp. rise on ambient (° C).	135
Type of cooling	AN
Maximum switching frequency	20 KHz
Altitude	Up to 2000M
dV/dt	Meets NEMA MG-1, part 31
Conductor	Aluminium

Electrical & Mechanical data							
S.N	I (Amps)	Ln (mH)	Weight (Kg)	IP 00 - Size (L X B X H mm)	Mounting pitch and Solt details		
					n1	n2	Slot size
1	1500	0.025	175	500 X 370 X 620	430	210	14 X 28
2	1500	0.015	125	500 X 320 X 620	430	155	14 X 28
3	1500	0.008	80	385 X 310 X 500	300	150	11 X 22
4	1200	0.019	110	430 X 330 X 500	360	165	11 X 22
5	1200	0.009	70	385 X 280 X 500	300	140	11 X 22
6	1200	0.003	50	360 X 240 X 420	300	130	11 X 22
7	1000	0.038	105	460 X360 X430	360	205	14 X 28
8	1000	0.022	80	430 X300 X430	360	170	11 X 22
9	1000	0.011	50	360 X 280 X 370	300	150	11 X 22
10	750	0.048	95	440 x 340 x 430	330	220	14 X 28
11	750	0.029	68	390 X 300 X 380	330	190	11 X 22
12	750	0.015	49	360 X 260 X 370	300	140	11 X 22
13	500	0.085	68	430 X325 X 330	330	200	11 X 22
14	500	0.050	52	400 X270 X320	330	150	11 X 22
15	500	0.025	38	350 X240 X300	300	125	11 X 22

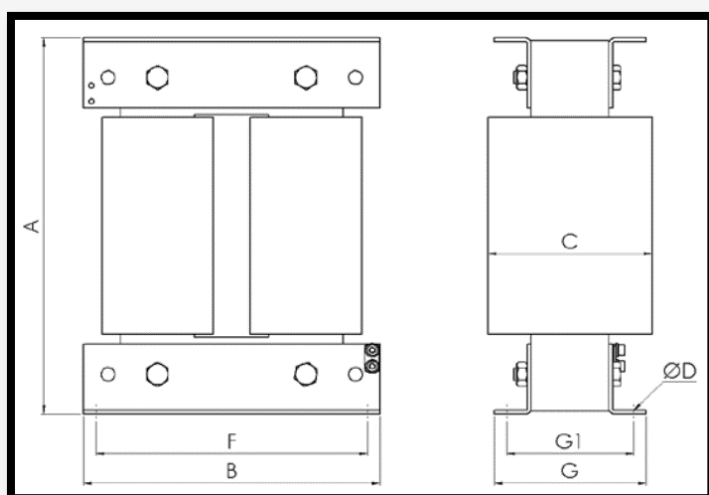
Note: The above mentioned ratings are Standard design offerings of Dynalektric. Custom solutions are offered based on Customer Requirement.

1-Phase Non-Enclosed Inductor

DESCRIPTION	DATA
Voltage	Up to 1100 V
Frequency	50-60Hz
Temp. class	B (130°C), F(55), H(180)
Cooling method	AN
Protection index	IP 00
Max Air Ambient Temperature	40°C
Reference standards	IS 2026 & IEC 60076

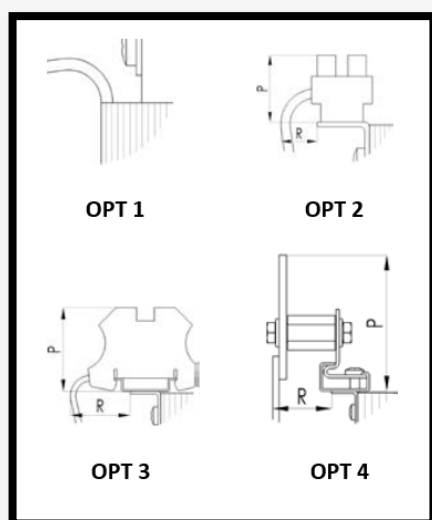


Dimension & Weights



KVAR	A	B	C	F	G	G1	D	Kg
7	260	200	157	180	140	120	9	33
10	310	240	168	220	141	121	9	45
12	310	240	183	220	156	136	9	55

Connector



RK cable min/max mm ²	Opt.	P	R
0.5/4	2	2	11
0.5/10	2	2	11
0.5/2.5	3	3	16
0.5/6	3	3	16
0.75/10	3	3	19
0.75/25	3	3	26
6/70	3	3	53
Bar 20x5	4	4	35
Bar 30x10	4	4	40
Free term.	1	1	-

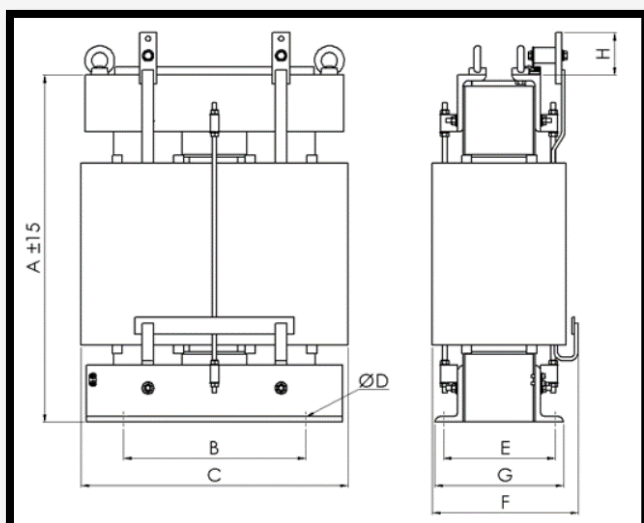
Note: The above mentioned ratings are Standard design offerings of Dynalektric. Custom solutions are offered based on Customer Requirement.

1-Phase Non-Enclosed DC Inductor

DESCRIPTION	DATA
Voltage	Up to 3.6KV
Frequency	50-60Hz
Temp. class	F (155°C), H (180°C)
Cooling method	AN
Protection index	IP 00
Ambient Temperature	40°C
Reference standards	IS 2026 & IEC 60076

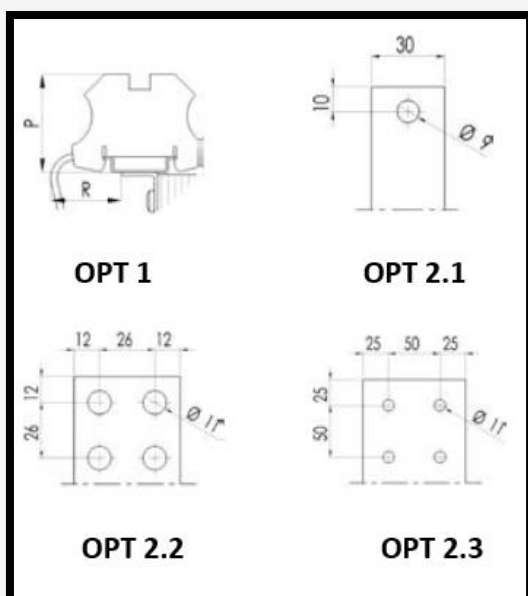


Dimension & Weights



KVAR	P _{cu} W	A	B	C	E	F	G	Kg
7.5	140	315	260	310	112	175	136	60
12	140	310	320	370	146	205	176	80
18	240	360	320	370	146	205	176	90
35	350	455	320	430	186	235	216	155
45	420	475	320	454	196	245	226	170
90	730	625	320	454	196	245	226	225
140	900	735	320	500	232	310	280	400
220	1300	1010	320	500	232	310	280	525
370	1600	1040	320	606	332	350	390	810

Term./Bar



Curr. App.(A)	Area (mm ²)	H	Opt.
12	6	55	1
30	16	60	1
70	35	70	1
150	70	95	1
500	-	80	2.1
800	-	110	2.2
1500	-	160	2.3

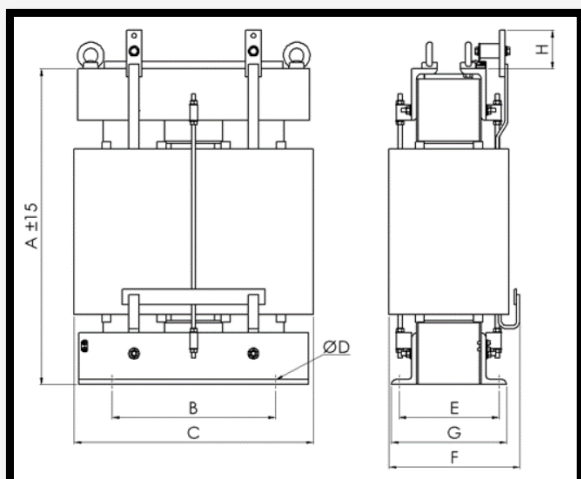
Note: The above mentioned ratings are Standard design offerings of Dynalektrik. Custom solutions are offered based on Customer Requirement.

1-Phase Non-Enclosed AC Inductor

DESCRIPTION	DATA
Voltage	Up to 3.6KV
Frequency	50-60Hz
Temp. class	F (155°C), H (180°C)
Cooling method	AN/AF
Protection index	IP 00
Ambient Temperature	40°C
Reference standards	IS 2026 & IEC 60076

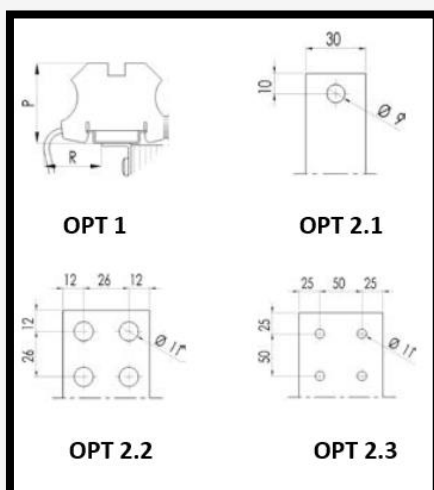


Dimension & Weights



KVAR	Po W	Pcu W	A	B	C	D	E	F	G	Kg
120	400	750	790	250	490	18	194	295	236	365
240	450	1900	840	310	610	18	194	295	236	500
480	800	2800	1120	320	630	22	230	355	282	760
960	1500	4200	1410	370	730	22	282	395	342	1340

Term./Bar



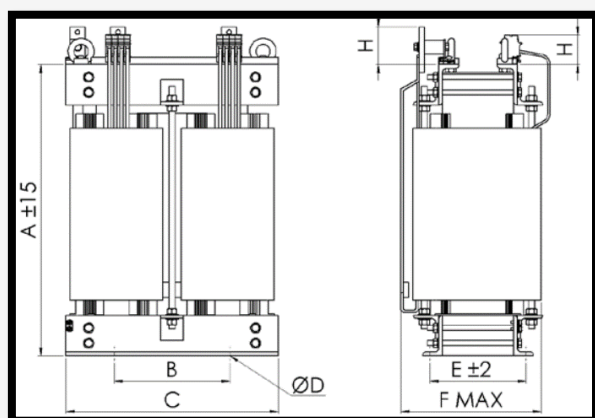
Curr. App.(A)	Area (mm ²)	H	Opt.
12	6	55	1
30	16	60	1
70	35	70	1
150	70	95	1
500	-	80	2.1
800	-	110	2.2
1500	-	160	2.3

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1-Phase Non-Enclosed AC Inductor

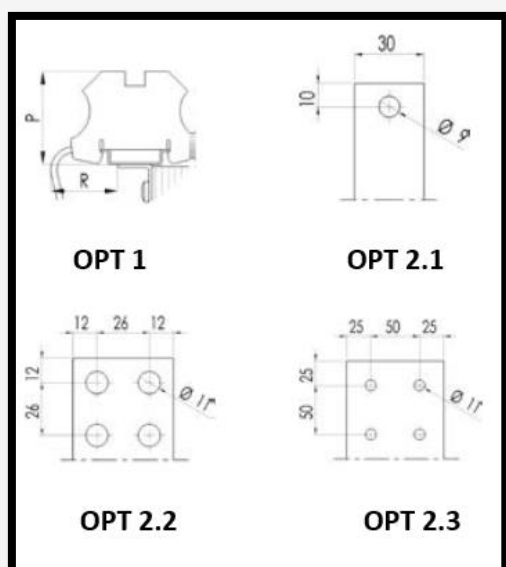
DESCRIPTION	DATA
Voltage	Up to 3.6KV
Frequency	50-60Hz
Temp. class	F (155°C), H (180°C)
Cooling method	AN
Protection index	IP 00
Ambient Temperature	40°C
Reference standards	IS 2026 & IEC 60076

Dimension & Weights



KVAR	Po W	Pcu W	A	B	C	D	E	F	Kg
6	35	120	215	90	255	14	136	234	37
8	40	140	235	90	255	14	136	234	40
10	45	170	265	90	255	14	136	234	43
12	50	200	295	90	255	14	136	234	50
16	55	260	325	90	255	14	136	234	57
20	60	330	385	90	255	14	136	234	67
25	70	420	455	90	255	14	136	234	77
32	80	520	535	90	255	14	136	234	90
40	100	650	635	90	255	14	136	234	107
50	125	850	446	130	335	14	168	288	120
63	140	1050	526	130	335	14	168	288	140
80	160	1450	606	130	335	14	168	288	163
100	200	1550	656	130	335	14	168	288	193
120	230	2000	776	130	335	14	168	288	227
160	265	2600	896	130	335	14	168	288	267

Term./Bar



Curr. App.(A)	Area (mm ²)	H	Opt.
12	6	55	1
30	16	60	1
70	35	70	1
150	70	95	1
500	-	80	2.1
800	-	110	2.2
1500	-	160	2.3

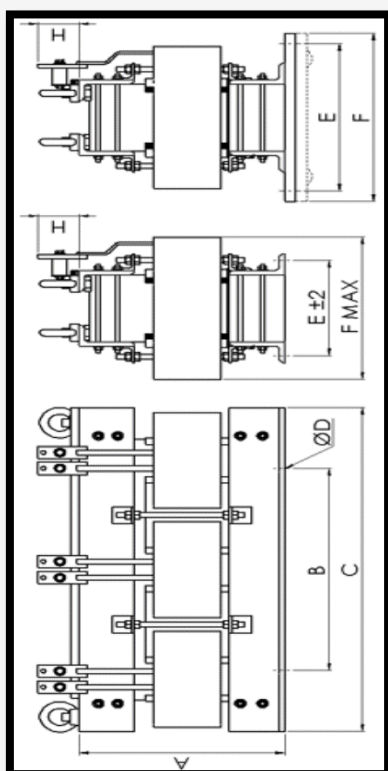
Note: The above mentioned ratings are Standard design offerings of Dynalektric. Custom solutions are offered based on Customer Requirement.

3-Phase Non-Enclosed Inductor

DESCRIPTION	DATA
Voltage	Up to 1200V
Frequency	50-60Hz
Temp. class	F (155°C), H (180°C)
Cooling method	AN/AF
Protection index	IP 00
Ambient Temperature	40°C
Reference standards	IS 2026 & IEC 60076

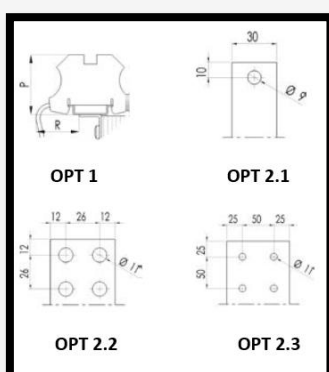


Dimension & Weights



KVAR	Po W	Pcu W	A	B	C	D	E	F	Kg
8	70	150	205	240	415	14	126	235	50
10	80	160	215	240	415	14	126	235	55
12.5	80	200	235	240	415	14	126	235	60
16	90	260	265	240	415	14	126	235	70
20	165	190	246	360	595	14	158	320	115
25	180	200	266	360	595	14	158	320	130
31.5	185	280	286	360	595	14	158	320	145
40	220	380	306	360	595	14	178	340	170
50	220	400	326	360	595	14	178	340	185
63	230	500	356	360	595	14	178	340	210
80	480	570	350	480	775	22	226	430	310
100	490	780	370	480	775	22	226	430	325
125	500	940	400	480	775	22	226	430	370
160	660	1050	400	480	775	22	266	470	435
200	660	1300	430	480	775	22	266	470	475
250	760	1470	690	600	945	22	442	555	675
315	800	1800	750	600	945	22	442	555	730
400	840	2250	830	600	945	22	442	555	825
500	880	2900	910	600	945	22	442	555	930
630	1400	2800	922	700	1095	22	542	655	1240
800	1500	3500	1032	700	1095	22	542	655	1425
1000	1600	4500	1152	700	1095	22	542	655	1640

Term./Bar



Curr. App.(A)	Area (mm ²)	H	Opt.
12	6	55	1
30	16	60	1
70	35	70	1
150	70	95	1
500	-	80	2.1
800	-	110	2.2
1500	-	160	2.3

Note: The above mentioned ratings are Standard design offerings of Dynalektric. Custom solutions are offered based on Customer Requirement.

Detuned Reactors

ALUMINUM WOUND AN COOLING

DESCRIPTION	DATA
Reference Standard	IEC 289, IEC 60076, IS 2026
Rated Voltage Rated	440 V
Rated Frequency	50Hz
Class Of Protection	IP 00
Ambient Temperature	50°C
Winding Material	Aluminium
Class of insulation	Class H
Thermal protection	Thermal switch (NC type, 165°C)
De-Tuning	5.67% , 7% , 14 %

Design Data

7% Impedance																	
KVAR	Dynalektrik Part No.	Un (V)	F1 (Hz)	%p	In [A]	Irms [A]	Inductance [mH]	L (mm)	B(mm)	H(mm)	n1 (mm)	n2 (mm)	Slot (mm)	b (mm)	d (mm)	Part Weight (Kg)	Enclosure (Optional)
5	DEPL440H07P005AF0	440	50	7	6.6	7.40	9.280	225	140	165	203	72	8 X 12	225	94	6	E1
10	DEPL440H07P010AF0	440	50	7	13.1	14.90	4.640	225	145	170	203	92	8 X 12	225	115	9	E1
12.5	DEPL440H07P012AF5	440	50	7	16.4	18.60	3.710	225	150	180	203	92	8 X 12	225	115	11	E1
15	DEPL440H07P015AF0	440	50	7	19.7	22.30	3.090	225	160	180	203	105	8 X 12	225	125	13	E1
20	DEPL440H07P020AF0	440	50	7	26.2	29.80	2.320	250	150	210	150	110	12 X 20	250	140	16	E2
25	DEPL440H07P025AF0	440	50	7	32.8	37.20	1.860	270	160	250	150	110	12 X 20	270	140	19	E2
50	DEPL440H07P050AF0	440	50	7	65.6	74.40	0.928	270	160	310	150	110	12 X 20	270	140	29	E2
75	DEPL440H07P075AF0	440	50	7	98.4	111.60	0.619	290	210	310	180	145	12 X 20	290	185	38	E3
100	DEPL440H07P100AF0	440	50	7	131.2	148.80	0.464	360	205	340	180	145	12 X 20	360	185	51	E3

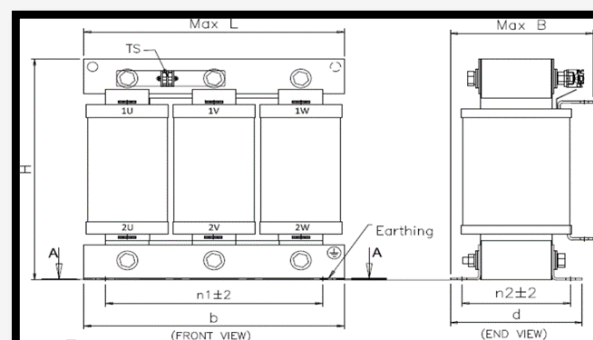
14% Impedance																	
KVAR	Dynalektrik Part No.	Un (V)	F1 (Hz)	%p	In [A]	Irms [A]	Inductance [mH]	L (mm)	B(mm)	H(mm)	n1 (mm)	n2 (mm)	Slot (mm)	b (mm)	d (mm)	Part Weight (Kg)	Enclosure (Optional)
5	DEPL440H14P005AF0	440	50	14	6.60	7.00	20.060	200	140	170	160	90	8 X 12	200	110	8	E1
10	DEPL440H14P010AF0	440	50	14	13.10	14.10	10.030	225	145	170	180	100	8 X 12	225	120	12	E1
12.5	DEPL440H14P012AF5	440	50	14	16.40	17.50	8.030	245	150	190	200	105	8 X 12	245	125	16	E1
15	DEPL440H14P015AF0	440	50	14	19.70	22.10	6.690	290	165	195	230	115	8 X 12	290	145	19	E1
20	DEPL440H14P020AF0	440	50	14	26.20	28.00	5.020	290	170	215	230	125	12 X 20	290	155	23	E1
25	DEPL440H14P025AF0	440	50	14	32.80	35.00	4.010	300	175	240	250	130	12 X 20	300	160	28	E2
50	DEPL440H14P050AF0	440	50	14	65.60	70.00	2.000	310	190	300	250	140	12 X 20	310	170	40	E2
75	DEPL440H14P075AF0	440	50	14	98.40	105.10	1.340	350	210	320	280	150	12 X 20	350	180	56	E2
100	DEPL440H14P100AF0	440	50	14	131.20	140.10	1.000	420	230	340	350	185	12 X 20	420	215	80	E4

5.67% Impedance																	
KVAR	Dynalektrik Part No.	Un (V)	F1 (Hz)	%p	In [A]	Irms [A]	Inductance [mH]	L (mm)	B(mm)	H(mm)	n1 (mm)	n2 (mm)	Slot (mm)	b (mm)	d (mm)	Part Weight (Kg)	Enclosure (Optional)
5	DEPL440H05P005AF0	440	50	5.67	6.6	8.8	7.41	190	130	160	150	80	8 X 12	190	104	8	E1
10	DEPL440H05P010AF0	440	50	5.67	13.1	17.6	3.7	200	145	165	150	100	8 X 12	200	124	11	E1
12.5	DEPL440H05P012AF5	440	50	5.67	16.4	20.9	2.96	240	145	175	200	95	8 X 12	240	119	15	E1
15	DEPL440H05P015AF0	440	50	5.67	19.7	25.1	2.47	240	155	175	200	105	8 X 12	240	129	17	E1
20	DEPL440H05P020AF0	440	50	5.67	26.2	33.5	1.85	260	155	200	210	110	12 X 20	260	134	21	E1
25	DEPL440H05P025AF0	440	50	5.67	32.8	41.8	1.48	270	165	230	220	125	12 X 20	270	155	24	E1
50	DEPL440H05P050AF0	440	50	5.67	65.6	83.63	0.741	270	185	290	220	140	12 X 20	270	170	35	E1
75	DEPL440H05P075AF0	440	50	5.67	98.4	125.4	0.494	300	210	310	250	155	12 X 20	300	185	52	E2
100	DEPL440H05P100AF0	440	50	5.67	131.2	167.3	0.37	360	230	330	300	175	12 X 20	360	205	70	E3

Note: The above mentioned ratings are Standard design offerings of Dynalektrik. Custom solutions are offered based on Customer Requirement.

Enclosure Details

S.No	Enclosure	L1 (mm)	B1 (mm)	H1 (mm)	Wt.(Kg)
1	E1	350	325	435	16
2	E2	400	325	570	19
3	E3	480	375	600	25
4	E4	540	375	600	25



Enclosure dimensions & weights are tentative and can be customised as per Customer Requirement. Enclosure will be supplied at an additional cost.

COPPER WOUND AN COOLING

DESCRIPTION	DATA
Ref. Standard	IEC 60289, IEC 60076, IS 2026
Rated Voltage	440 V
Rated Frequency	50Hz
Class Of Protection	IP 00
Ambient Temperature	50°C
Winding Material	Copper
Class of insulation	Class H
Thermal protection	Thermal switch (NC type, 165°C)
De-Tuning	5.67% , 7% , 14 %

7% Impedance

KVAR	Dynalektric Part No.	Un (V)	F1 (Hz)	%p	In [A]	Irms [A]	Inductance [mH]	L (mm)	B(mm)	H(mm)	n1 (mm)	n2 (mm)	Slot (mm)	b (mm)	d (mm)	Part Weight (Kg)
5	DEPL440H07P005C0	440	50	7	6.60	7.40	9.280	215	140	165	203	72	8 X 12	215	94	8
10	DEPL440H07P010C0	440	50	7	13.10	14.90	4.640	215	145	170	203	92	8 X 12	215	115	12
12.5	DEPL440H07P012C5	440	50	7	16.40	18.60	3.710	215	150	180	203	92	8 X 12	215	115	15
15	DEPL440H07P015C0	440	50	7	19.70	22.30	3.090	215	160	180	203	105	8 X 12	215	125	17
20	DEPL440H07P020C0	440	50	7	26.20	29.80	2.320	230	150	210	150	110	12 X 20	230	140	21
25	DEPL440H07P025C0	440	50	7	32.80	37.20	1.860	250	160	250	150	110	12 X 20	250	140	25
50	DEPL440H07P050C0	440	50	7	65.60	74.40	0.928	250	160	310	150	110	12 X 20	250	140	38
75	DEPL440H07P075C0	440	50	7	98.40	111.60	0.619	270	210	310	180	145	12 X 20	270	185	50
100	DEPL440H07P100C0	440	50	7	131.20	148.80	0.464	340	205	340	180	145	12 X 20	340	185	67

Note: The above mentioned ratings are Standard design offerings of Dynalektric. Custom solutions are offered based on Customer Requirement.

14% Impedance

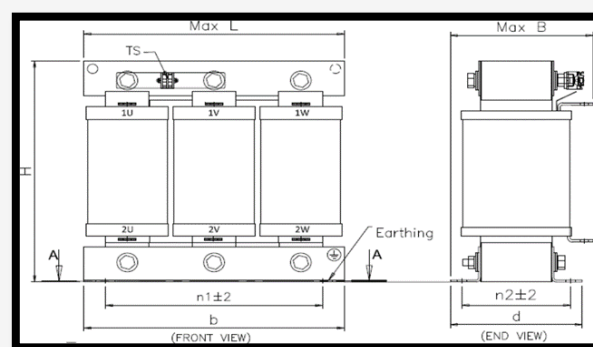
KVAR	Dynalektrik Part No.	Un (V)	F1 (Hz)	%p	In [A]	Irms [A]	Inductance [mH]	L (mm)	B(mm)	H(mm)	n1 (mm)	n2 (mm)	Slot (mm)	b (mm)	d (mm)	Part Weight (Kg)
5	DEPL440H14P005C0	440	50	14	6.60	7.00	20.060	200	140	170	160	90	8 X 12	200	110	11
10	DEPL440H14P010C0	440	50	14	13.10	14.10	10.030	225	145	170	180	100	8 X 12	225	120	16
12.5	DEPL440H14P012C5	440	50	14	16.40	17.50	8.030	245	150	190	200	105	8 X 12	245	125	21
15	DEPL440H14P015C0	440	50	14	19.70	22.10	6.690	290	165	195	230	115	8 X 12	290	145	25
20	DEPL440H14P020C0	440	50	14	26.20	28.00	5.020	290	170	215	230	125	12 X 20	290	155	30
25	DEPL440H14P025C0	440	50	14	32.80	35.00	4.010	300	175	240	250	130	12 X 20	300	160	37
50	DEPL440H14P050C0	440	50	14	65.60	70.00	2.000	310	190	300	250	140	12 X 20	310	170	52
75	DEPL440H14P075C0	440	50	14	98.40	105.10	1.340	350	210	320	280	150	12 X 20	350	180	73
100	DEPL440H14P100C0	440	50	14	131.20	140.10	1.000	420	230	340	350	185	12 X 20	420	215	104

5.67% Impedance

KVAR	Dynalektrik Part No.	Un (V)	F1 (Hz)	%p	In[A]	Irms [A]	Inductance [mH]	L (mm)	B(mm)	H(mm)	n1 (mm)	n2 (mm)	Slot (mm)	b (mm)	d (mm)	Part Weight (Kg)
5	DEPL440H05P005C0	440	50	5.67	6.6	8.8	7.41	190	130	160	150	80	8 X 12	190	104	10
10	DEPL440H05P010C0	440	50	5.67	13.1	17.6	3.7	200	145	165	150	100	8 X 12	200	124	15
12.5	DEPL440H05P012C5	440	50	5.67	16.4	20.9	2.96	240	145	175	200	95	8 X 12	240	119	20
15	DEPL440H05P015C0	440	50	5.67	19.7	25.1	2.47	240	155	175	200	105	8 X 12	240	129	23
20	DEPL440H05P020C0	440	50	5.67	26.2	33.5	1.85	260	155	200	210	110	12 X 20	260	134	27
25	DEPL440H05P025C0	440	50	5.67	32.8	41.8	1.48	270	165	230	220	125	12 X 20	270	155	32
50	DEPL440H05P050C0	440	50	5.67	65.6	83.63	0.741	270	185	290	220	140	12 X 20	270	170	46
75	DEPL440H05P075C0	440	50	5.67	98.4	125.4	0.494	300	210	310	250	155	12 X 20	300	185	68
100	DEPL440H05P100C0	440	50	5.67	131.2	167.3	0.37	360	230	330	300	175	12 X 20	360	205	91

Enclosure Details

S.No	Enclosure	L1 (mm)	B1 (mm)	H1 (mm)	Wt.(Kg)
1	E1	350	325	435	16
2	E2	400	325	570	19
3	E3	480	375	600	25
4	E4	540	375	600	25



Enclosure dimensions & weights are tentative and can be customised as per Customer Requirement. Enclosure will be supplied at an additional cost.

Note: The above mentioned ratings are Standard design offerings of Dynalektrik. Custom solutions are offered based on Customer Requirement.



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