SEW EURODRIVE

Manual

Conversion Guide
DT/DV to DRS/DRE/DRP Motors

Edition 03/2010

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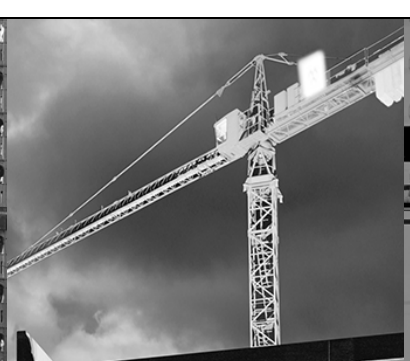


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Contents

1 4-Pole Motors – Power Ratings

P 4p, 50 Hz kW	IE1 DT/DV Size	IE1 DRS Size	IE2 DTE/DVE Size	IE2 DRE Size	IE3 DRP Size
0.18	71K	71S	–	–	–
0.25	71C	71S	–	–	–
0.37	71D	71S	–	–	–
0.55	80K	71M	–	–	–
0.75	80N	80S	90K	80M	90M
1.1	90S	80M	90S	90M	90L
1.5	90L	90M	90L	90L	100M
2.2	100M	90L	100M	100M	100L
3	100L	100M	100L	100LC 112M	112M
4	112M	100LC 112M	112M	132S	132M
5.5	132S	132S	132S	132M	132MC 160S
7.5	132M	132M	132M	132MC 160S	160M
9.2	132ML	132MC 160S	–	160M	160MC 180S
11	160M	160M	160M	160MC 180S	180M
15	160L	160MC 180S	160L	180M	180L
18.5	180M	180M	180M	180L	180LC 200L
22	180L	180L	180L	180LC	200L
30	200L	180LC 200L	200L	200L	225S
37	225S	225S	225S	225S	225M
45	225M	225M	250M	225M	–
55	250M	225MC 250M	250M	250M	–
75	280S	280S	280S	280S	–
90	280M	280M	280M	–	–
110	–	315K	–	315K	315S
132	–	315S	–	315S	315M
160	–	315M	–	315M	315L
200	–	315L	–	315L	–

2 Brake Overview DR..

2.1 DRS

P	DT/DV			DRS			
4p, 50 Hz kW	Size	BM(G)[1]	Alternative	Size	BE[2]	Alternative	
0.18	71K	BMG05	–	71S	BE05	BE1	–
0.25	71C	BMG05	–	71S	BE05	BE1	–
0.37	71D	BMG05	–	71S	BE05	BE1	–
0.55	80K	BMG1	–	71M	BE1	BE05	–
0.75	80N	BMG1	–	80S	BE1	BE2	BE05
1.1	90S	BMG2	–	80M	BE2	BE1	BE05
1.5	90L	BMG2	–	90M	BE2	BE5	BE1
2.2	100M	BMG4	–	90L	BE5	BE2	BE1
3	100L	BMG4	–	100M	BE5	BE2	–
4	112M	BMG8	–	100LC 112M	BE5 BE5	BE2 BE11	– –
5.5	132S	BMG8	–	132S	BE11	BE5	–
7.5	132M	BM15	–	132M	BE11	BE5	–
9.2	132ML	BM15	–	132MC 160S	BE11 BE20	BE5 BE11	– –
11	160M	BM15	–	160M	BE20	BE11	–
15	160L	BM30	–	160MC 180S	BE20 BE20	BE11 BE30	– –
18.5	180M	BM30	BM32	180M	BE30	BE20	–
22	180L	BM30	BM32	180L	BE30	BE20	BE32
30	200L	BM31	BM62	180LC 200L	BE32 BE32	BE30 BE30	BE20 –
37	225S	BM31	BM62	225S	BE32	BE30	–
45	225M	BM31	BM62	225M	BE32	BE30	[BE60[3]]
55	250M	BMG61	BMG122	225MC [250M[3]]	BE32 [BE62[3]]	BE30 [BE60[3]]	[BE60[3]] –
75	280S	BMG61	BMG122	[280S[3]]	[BE62[3]]	[BE60[3]]	–
90	280M	BMG61	BMG122	[280M[3]]	[BE62[3]]	[BE60[3]]	–
110	–	–	–	315K	BE122	BE120	–
132	–	–	–	315S	BE122	BE120	–
160	–	–	–	315M	BE122	BE120	–
200	–	–	–	315L	BE122	BE120	–

1) Type and catalog designation without figures
2) Type and catalog designation with figures
3) Feb. 2010: In preparation

2.2 DRE

P 4p, 50 Hz kW	DT/DV			DRE			
	Size	BM(G)[1]	Alternative	Size	BE[2]	Alternative	
0.18	71K	BMG05	–	–	–	–	–
0.25	71C	BMG05	–	–	–	–	–
0.37	71D	BMG05	–	–	–	–	–
0.55	80K	BMG1	–	[80M[3]]	[BE1[3]]	[BE05[3]]	[BE2[3]]
0.75	80N	BMG1	–	80M	BE1	BE05	BE2
1.1	90S	BMG2	–	90M	BE2	BE1	BE5
1.5	90L	BMG2	–	90L	BE2	BE5	BE1
2.2	100M	BMG4	–	100M	BE5	BE2	–
3	100L	BMG4	–	100LC 112M	BE5 BE5	BE2 BE11	– –
4	112M	BMG8	–	132S	BE5	BE11	–
5.5	132S	BMG8	–	132M	BE11	BE5	–
7.5	132M	BM15	–	132MC 160S	BE11 BE11	BE5 BE20	– –
9.2	132ML	BM15	–	160M	BE20	BE11	–
11	160M	BM15	–	160MC 180S	BE20 BE20	BE11 BE30	– –
15	160L	BM30	–	180M	BE30	BE20	–
18.5	180M	BM30	BM32	180L	BE30	BE20	BE32
22	180L	BM30	BM32	180LC	BE30	BE20	BE32
30	200L	BM31	BM62	200L	BE32	BE30	–
37	225S	BM31	BM62	225S	BE32	BE30	–
45	225M	BM31	BM62	225M	BE32	BE30	[BE60[3]]
55	250M	BMG61	BMG122	[250M[3]]	[BE62[3]]	[BE60[3]]	–
75	280S	BMG61	BMG122	[280S[3]]	[BE62[3]]	[BE60[3]]	–
90	280M	BMG61	BMG122	[280M[3]]	[BE62[3]]	[BE60[3]]	–
110	–	–	–	315K	BE122	BE120	–
132	–	–	–	315S	BE122	BE120	–
160	–	–	–	315M	BE122	BE120	–
200	–	–	–	315L	BE122	BE120	–

1) Type and catalog designation without figures
2) Type and catalog designation with figures
3) Feb. 2010: In preparation

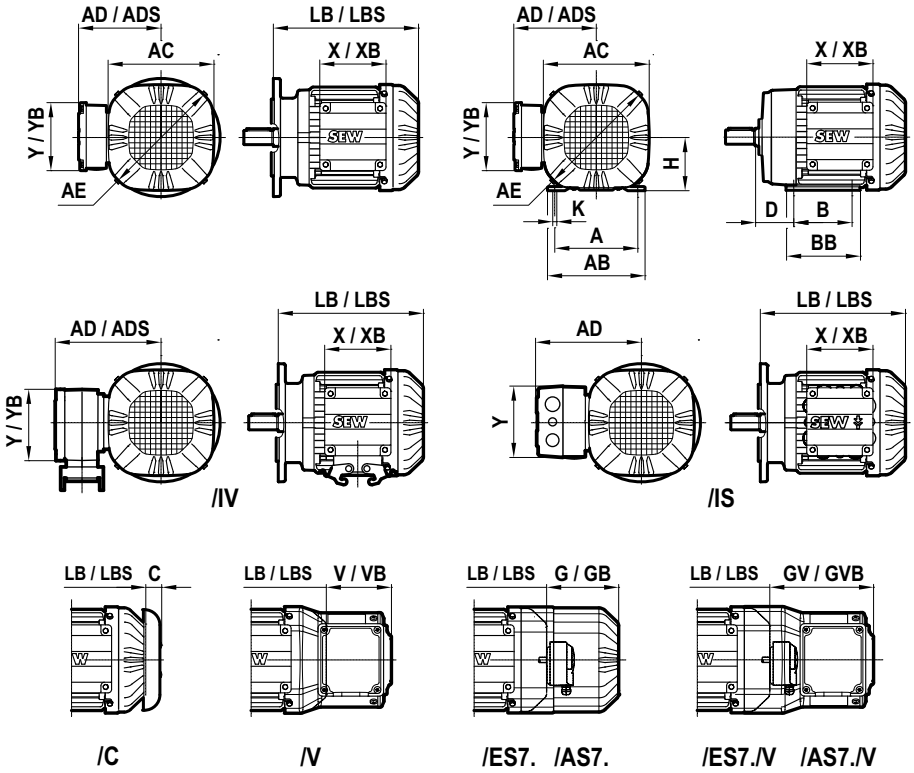
2.3 DRP

P 4p, 50 Hz kW	DT/DV Size	DT/DV BM(G)[1]	DT/DV Alternative	DRP Size	DRP BE[2]	DRP Alternative	
0.18	71K	BMG05	–	–	–	–	–
0.25	71C	BMG05	–	–	–	–	–
0.37	71D	BMG05	–	–	–	–	–
0.55	80K	BMG1	–	–	–	–	–
0.75	80N	BMG1	–	90M	BE1	BE2	BE5
1.1	90S	BMG2	–	90L	BE2	BE1	BE5
1.5	90L	BMG2	–	100M	BE2	BE5	–
2.2	100M	BMG4	–	100L	BE5	BE2	–
3	100L	BMG4	–	112M	BE5	BE11	–
4	112M	BMG8	–	132M	BE5	BE11	–
5.5	132S	BMG8	–	132MC 160S	BE11 BE11	BE5 BE20	– –
7.5	132M	BM15	–	160M	BE11	BE20	–
9.2	132ML	BM15	–	160MC 180S	BE20 BE20	BE11 BE30	– –
11	160M	BM15	–	180M	BE20	BE30	–
15	160L	BM30	–	180L	BE20	BE30	BE32
18.5	180M	BM30	BM32	180LC 200L	BE30 BE30	BE20 BE32	BE32 –
22	180L	BM30	BM32	200L	BE30	BE32	–
30	200L	BM31	BM62	225S	BE30	BE32	–
37	225S	BM31	BM62	225M	BE32	BE30	[BE60[3]]
45	225M	BM31	BM62	[250M[3]]	[BE62[3]]	[BE60[3]]	–
55	250M	BMG61	BMG122	[280S[3]]	[BE62[3]]	[BE60[3]]	–
75	280S	BMG61	BMG122	[280M[3]]	[BE62[3]]	[BE60[3]]	–
90	280M	BMG61	BMG122	315K	BE122	BE120	–
110	–	–	–	315S	BE122	BE120	–
132	–	–	–	315M	BE122	BE120	–
160	–	–	–	315L	BE122	BE120	–
200	–	–	–	–	–	–	–

1) Type and catalog designation without figures
2) Type and catalog designation with figures
3) Feb. 2010: In preparation

3 Motor Data

3.1 D(F)T71D4 ↔ DRS71S4, 0.37 kW, 50 Hz



3.1.1 Technical data

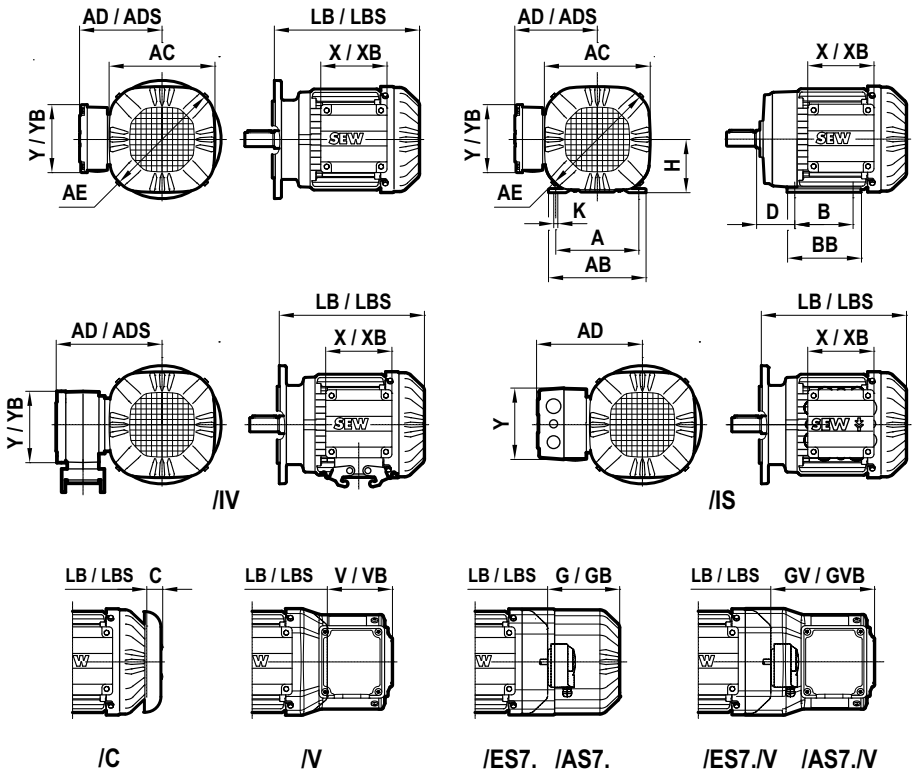
0.37 kW / 50 Hz	DT71D4	DRS71S4	
M_N[Nm]	2.6	2.55	–1.9 %
n_N [rpm]	1380	1380	0 %
M_A/M_N	1.8	1.8	0 %
M_H/M_N	1.7	1.8	5.9 %
I_N [A]	1.24	1.14	–8.1 %
I_A/I_N	3	3.5	16.7 %
cos φ	0.76	0.7	–7.9 %
η 75% A [%]	–	65.3	–
η 100% A [%]	–	66.6	–
η 75% B [%]	–	66.2	–
η 100% B [%]	–	67.7	–
J_{Mot} [10^{-4} kgm²]	4.6	4.9	6.5 %
J_{BMot} [10^{-4} kgm²]	5.5	6.2	12.7 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	24.6	26.2	6.5 %
m_{Mot} [kg]	7	7.8	11.4 %
m_{BMot} [kg]	9.9	10.2	3.0 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	6000	6000	0 %
Z_{0BGE} [1/h]	9500	9500	0 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	65	65	0 %

3.1.2 Dimensioning [mm]

0.37 kW / 50 Hz	DT71D4	DRS71S4	
AC	145	139	–6
AD	122	119	–3
ADS	127	129	+2
AE[1)]	–	155	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	202	202	0
LB B9	164	160	–4
LB LIA120	206	202	–4
LB LIA160	199	196	–3
LB LIA200	–	190	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	63	68	+5
LB FF	202	198	–4
IEC D	14	14	0
IEC L	30	30	0
RZ D	10	10	0
H	71	71	0
A	112	112	0
B	90	90	0
D	45	45	0
K	7	7	0
AB	144	130	–14
BB	115	115	0
C	36	31	–5
V	64	103	+39
VB	84	98	+14
AD /IS	149	148	–1
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	141	137	–4
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	141	138	–3
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	84	82.5	–1.5
GB /E	83	81	–2
GV /E+/V	168	174	+6
GVB /E+/V	168	173	+5

1) The AE dimension can be compered with to the AC dimension of the DT/DV motor

3.2 D(F)T80K4 ↔ DRS71M4, 0.55 kW, 50 Hz



3.2.1 Technical data

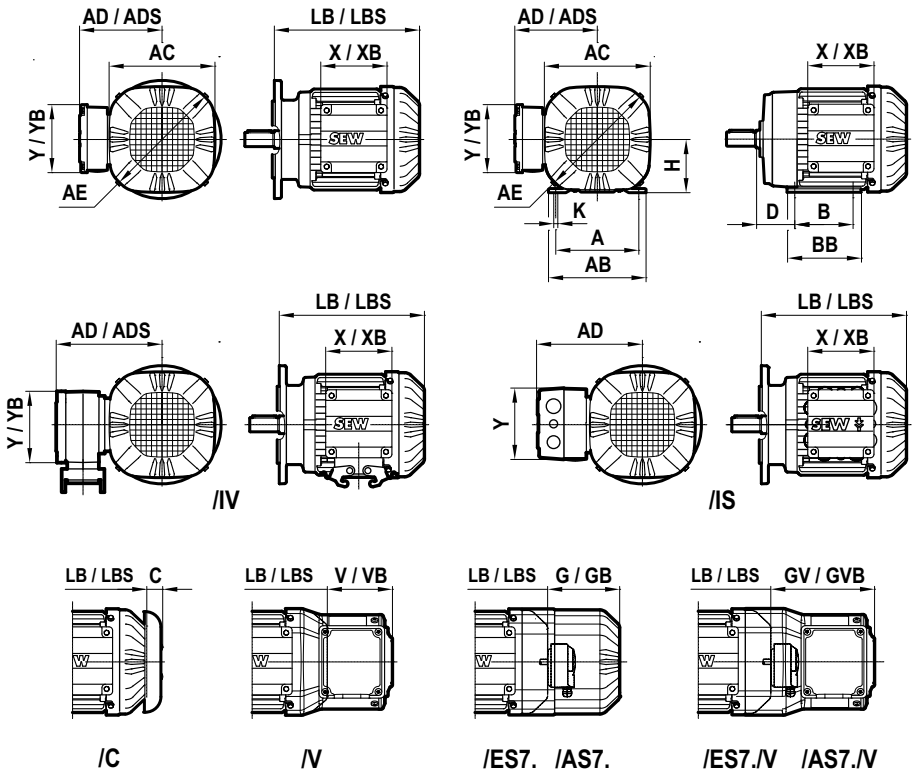
0.55 kW / 50 Hz	DT80K4	DRS71M4	
M_N[Nm]	3.9	3.8	–2.6 %
n_N [rpm]	1360	1380	1.5 %
M_A/M_N	2.1	2.1	0 %
M_H/M_N	1.8	2.1	16.7 %
I_N [A]	1.75	1.55	–11.4 %
I_A/I_N	3.4	3.6	5.9 %
cos φ	0.72	0.72	0 %
η 75% A [%]	–	71.9	–
η 100% A [%]	–	70.6	–
η 75% B [%]	–	73.0	–
η 100% B [%]	–	72.4	–
J_{Mot} [10^{-4} kgm²]	6.6	7.1	7.6 %
J_{BMot} [10^{-4} kgm²]	7.5	8.4	12.0 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	36.6	28.4	–22.4 %
m_{Mot} [kg]	9.9	9.1	–8.1 %
m_{BMot} [kg]	12.7	11.7	–7.9 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	4100	4100	0 %
Z_{0BGE} [1/h]	11000	11000	0 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	60	60	0 %

3.2.2 Dimensioning [mm]

0.55 kW / 50 Hz	DT80K4	DRS71M4	
AC	145	139	–6
AD	122	119	–3
ADS	127	129	+2
AE[1)]	–	155	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	252	227	–25
LB B9	214	185	–29
LB LIA120	256	227	–29
LB LIA160	249	221	–28
LB LIA200	–	215	–
LB LIA250	–	209	–
LB LIA300	–	204	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	63	68	+5
LB FF	252	223	–29
IEC D	19	19	0
IEC L	40	40	0
RZ D	12	10	–2
H	80	80	0
A	125	125	0
B	100	100	0
D	50	50	0
K	9	10	+1
AB	149	148	–1
BB	125	131	+6
C	36	31	–5
V	64	103	+39
VB	84	98	+14
AD /IS	149	148	–1
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	141	137	–4
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	141	138	–3
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	84	82.5	–1.5
GB /E	83	81	–2
GV /E+/V	168	174	+6
GVB /E+/V	168	173	+5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.3 D(F)T80N4 ↔ DRS80S4, 0.75 kW, 50 Hz



3.3.1 Technical data

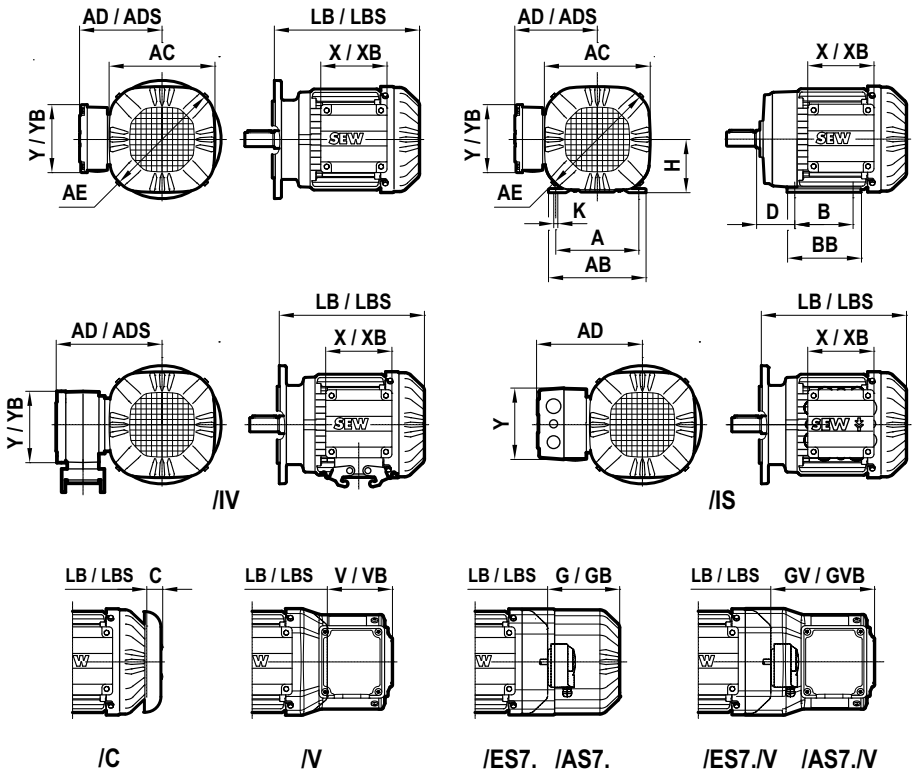
0.75 kW / 50 Hz	DT80N4	DRS80S4	
M_N[Nm]	5.2	5.1	–1.9 %
n_N [rpm]	1380	1400	1.4 %
M_A/M_N	2.2	1.9	–13.6 %
M_H/M_N	2	1.9	–5.0 %
I_N [A]	2.15	1.8	–16.3 %
I_A/I_N	3.8	4.3	13.2 %
cos φ	0.73	0.81	11.0 %
η 75% A [%]	–	76.6	–
η 100% A [%]	–	75.3	–
η 75% B [%]	–	76.9	–
η 100% B [%]	–	75.7	–
J_{Mot} [10^{-4} kgm²]	8.7	14.9	71.3 %
J_{BMot} [10^{-4} kgm²]	9.6	16.4	70.8 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	38.7	52.8	–36.4 %
m_{Mot} [kg]	11.5	11.5	0 %
m_{BMot} [kg]	14.3	14.5	–1.4 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	5200	3500	–32.7 %
Z_{0BGE} [1/h]	14000	9000	–35.7 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	60	65	–7.7 %

3.3.2 Dimensioning [mm]

0.75 kW / 50 Hz	DT80N4	DRS80S4	
AC	145	156	+11
AD	154	128	–26
ADS	161	139	–22
AE[1)]	–	172	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	252	236	–16
LB B9	214	189	–25
LB LIA120	256	236	–20
LB LIA160	249	230	–19
LB LIA200	–	223	–
LB LIA250	–	218	–
LB LIA300	–	213	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	63	81	+18
LB FF	252	241	–11
IEC D	19	19	0
IEC L	40	40	0
RZ D	12	12	0
H	80	80	0
A	125	125	0
B	100	100	0
D	50	50	0
K	9	10	+1
AB	149	148	–1
BB	125	131	+6
C	36	31	–5
V	64	104	+40
VB	84	95.5	+11.5
AD /IS	149	157.5	+8.5
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	141	146	+5
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	141	147.5	+6.5
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	84	83.5	–0.5
GB /E	83	83.5	+0.5
GV /E+/V	168	172	+4
GVB /E+/V	168	173	+5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.4 D(F)T80N4 ↔ DRE80M4, 0.75 kW, 50 Hz



3.4.1 Technical data

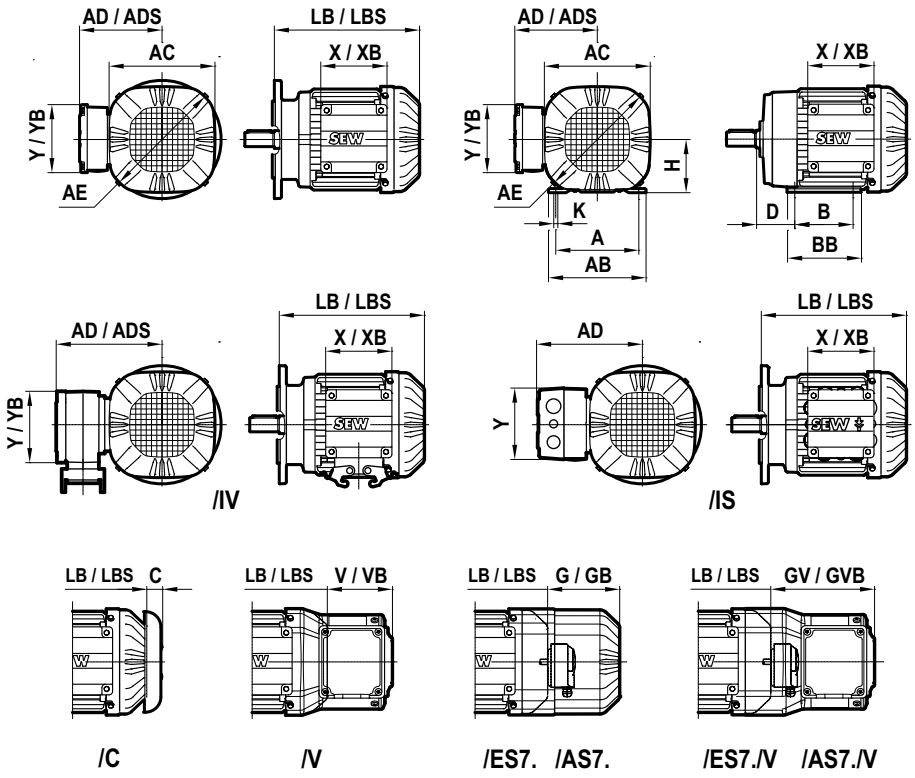
0.75 kW / 50 Hz	DT80N4	DRE80M4	
M_N[Nm]	5.2	5	–3.8 %
n_N [rpm]	1380	1435	4.0 %
M_A/M_N	2.2	2.8	27.3 %
M_H/M_N	2	2.1	5.0 %
I_N [A]	2.15	1.68	–21.9 %
I_A/I_N	3.8	6.2	63.2 %
cos φ	0.73	0.78	6.8 %
η 75% A [%]	–	82.1	–
η 100% A [%]	–	81.8	–
η 75% B [%]	–	82.4	–
η 100% B [%]	–	82.3	–
J_{Mot} [10^{-4} kgm²]	8.7	21.5	147.1 %
J_{BMot} [10^{-4} kgm²]	9.6	26	170.8 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	38.7	59.4	53.5 %
m_{Mot} [kg]	11.5	14.3	24.3 %
m_{BMot} [kg]	14.3	18	25.9 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	5200	3500	–32.7 %
Z_{0BGE} [1/h]	14000	9000	–35.7 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	65	30	–53.8 %

3.4.2 Dimensioning [mm]

0.75 kW / 50 Hz	DT80N4	DRE80M4	
AC	145	156	+11
AD	154	128	–26
ADS	161	139	–22
AE[1)]	–	172	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	252	267	+15
LB B9	214	220	+6
LB LIA120	256	267	+11
LB LIA160	249	261	+12
LB LIA200	–	254	–
LB LIA250	–	249	–
LB LIA300	–	244	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	63	81	+18
LB FF	252	272	+20
IEC D	19	19	0
IEC L	40	40	0
RZ D	12	12	0
H	80	80	0
A	125	125	0
B	100	100	0
D	50	50	0
K	9	10	+1
AB	149	148	–1
BB	125	131	+6
C	36	31	–5
V	64	104	+40
VB	84	95.5	+11.5
AD /IS	149	157.5	+8.5
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	141	146	+5
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	141	147.5	+6.5
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	84	83.5	–0.5
GB /E	83	83.5	+0.5
GV /E+/V	168	172	+4
GVB /E+/V	168	173	+5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.5 D(F)T80N4 ↔ DRP90M4, 0.75 kW, 50 Hz



3.5.1 Technical data

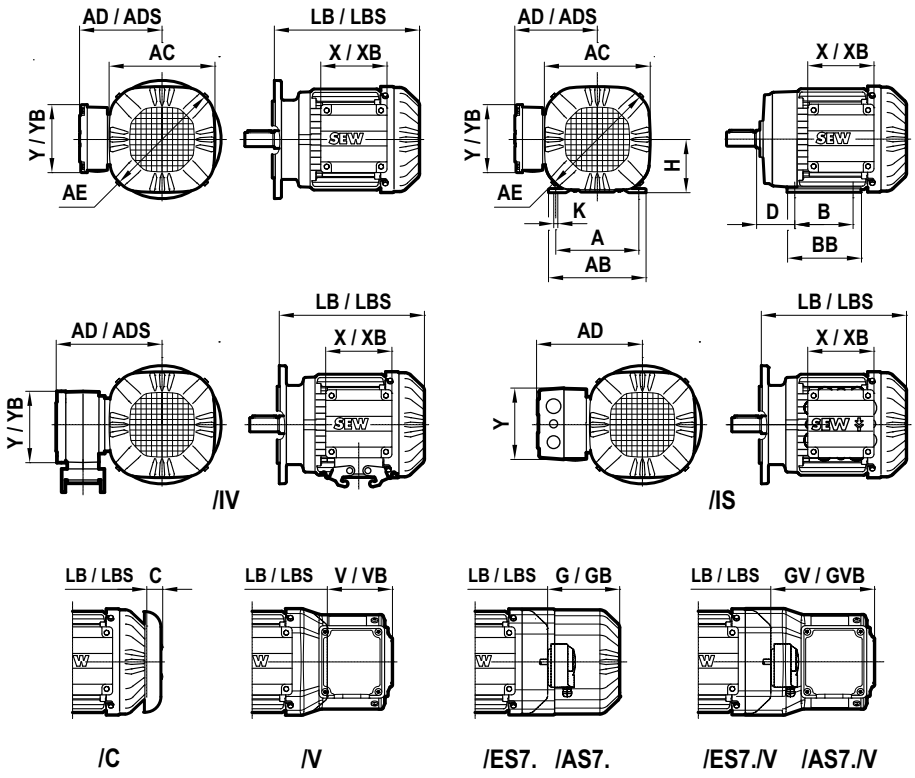
0.75 kW / 50 Hz	DT80N4	DRP90M4	
M_N[Nm]	5.2	4.95	–4.8 %
n_N [rpm]	1380	1450	5.1 %
M_A/M_N	2.2	3.7	68.2 %
M_H/M_N	2	3.1	55.0 %
I_N [A]	2.15	1.81	–15.8 %
I_A/I_N	3.8	7.3	92.1 %
cos φ	0.73	0.72	–1.4 %
η 75% A [%]	–	82.7	–
η 100% A [%]	–	83.3	–
η 75% B [%]	–	83.4	–
η 100% B [%]	–	84.0	–
J_{Mot} [10^{-4} kgm²]	8.7	35.5	308.0 %
J_{BMot} [10^{-4} kgm²]	9.6	37	285.4 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	38.7	135.5	250.1 %
m_{Mot} [kg]	11.5	18.4	60.0 %
m_{BMot} [kg]	14.3	22.5	57.3 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	5200	2900	–44.2 %
Z_{0BGE} [1/h]	14000	7500	–46.4 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	65	25	–61.5 %

3.5.2 Dimensioning [mm]

0.75 kW / 50 Hz	DT80N4	DRP90M4	
AC	145	179	+34
AD	154	140	–14
ADS	161	150	–11
AE[1)]	–	202.5	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	252	262	+10
LB B9	214	205	–9
LB LIA120	256	267	+11
LB LIA160	249	262	+13
LB LIA200	–	254	–
LB LIA250	–	250	–
LB LIA300	–	244	–
LB LIA350	–	238	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	63	94	+31
LB FF	252	266	+14
IEC D	19	19	0
IEC L	40	40	0
RZ D	12	12	0
H	80	90	+10
A	125	140	+15
B	100	125	+25
D	50	56	+6
K	9	10	+1
AB	149	165	+16
BB	125	158	+33
C	36	31	–5
V	64	125.5	+61.5
VB	84	106	+22
AD /IS	149	169	+20
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	141	158	+17
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	141	159	+18
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	84	81.5	–2.5
GB /E	83	81	–2
GV /E+/V	168	183.5	+15.5
GVB /E+/V	168	184	+16

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.6 D(F)T90S4 ↔ DRS80M4, 1.1 kW, 50 Hz



3.6.1 Technical data

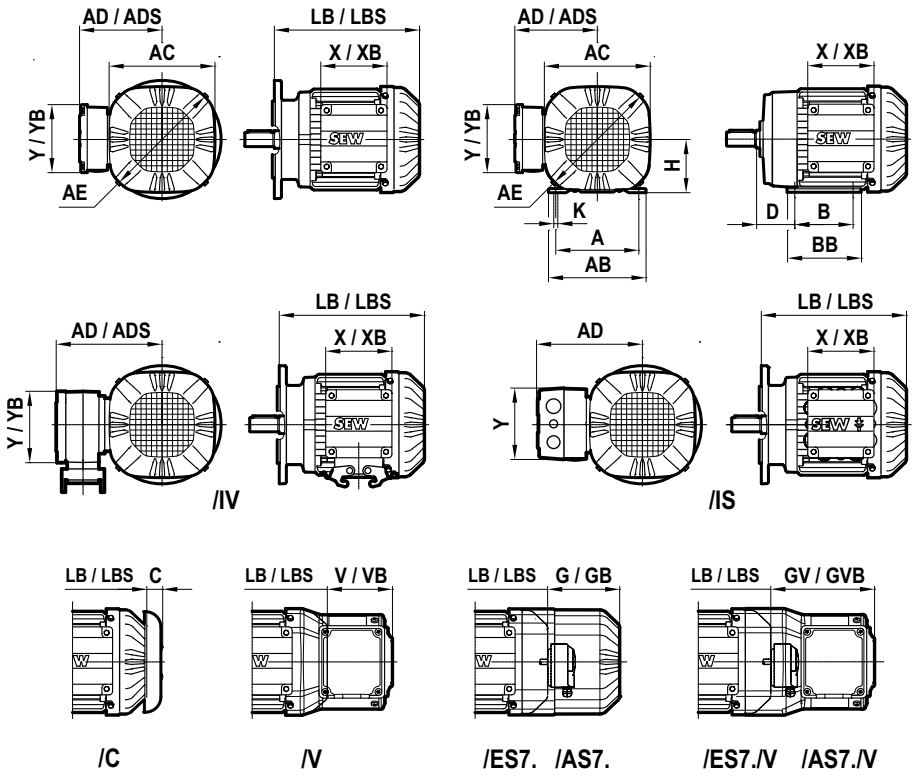
1.1 kW / 50 Hz	DT90S4	DRS80M4	
M_N[Nm]	7.5	7.4	–1.3 %
n_N [rpm]	1400	1410	0.7 %
M_A/M_N	2	2.2	10.0 %
M_H/M_N	1.9	1.7	–10.5 %
I_N [A]	2.8	2.4	–14.3 %
I_A/I_N	4.3	5.1	18.6 %
cos φ	0.77	0.83	7.8 %
η 75% A [%]	77.5	80.7	4.1 %
η 100% A [%]	76.5	79.13	3.4 %
η 75% B [%]	77.5	80.9	4.4 %
η 100% B [%]	76.5	79.5	3.9 %
J_{Mot} [10^{-4} kgm²]	25	21.5	–14.0 %
J_{BMot} [10^{-4} kgm²]	31	26	–16.1 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	125	59.4	–52.5 %
m_{Mot} [kg]	16	14.3	–10.6 %
m_{BMot} [kg]	26	18	–30.8 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	2500	3500	40.0 %
Z_{0BGE} [1/h]	6300	9000	42.9 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	55	50	–9.1 %

3.6.2 Dimensioning [mm]

1.1 kW / 50 Hz	DT90S4	DRS80M4	
AC	197	156	–41
AD	166	128	–38
ADS	166	139	–27
AE[1)]	–	172	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	273	267	–6
LB B9	214	220	+6
LB LIA120	276	267	–9
LB LIA160	269	261	–8
LB LIA200	261	254	–7
LB LIA250	–	249	–
LB LIA300	–	244	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	81	–4
LB FF	273	272	–1
IEC D	24	24	0
IEC L	50	50	0
RZ D	14	12	–2
H	90	90	0
A	140	140	0
B	125	100	–25
D	56	56	0
K	9	10	+1
AB	176	165	–11
BB	152	131	–21
C	34	31	–3
V	85	104	+19
VB	66	95.5	+29.5
AD /IS	182	157.5	–24.5
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	174	146	–28
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	174	147.5	–26.5
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	77	83.5	+6.5
GB /E	77	83.5	+6.5
GV /E+/V	180	172	–8
GVB /E+/V	180	173	–7

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.7 D(F)T90S4 ↔ DRE90M4, 1.1 kW, 50 Hz



3.7.1 Technical data

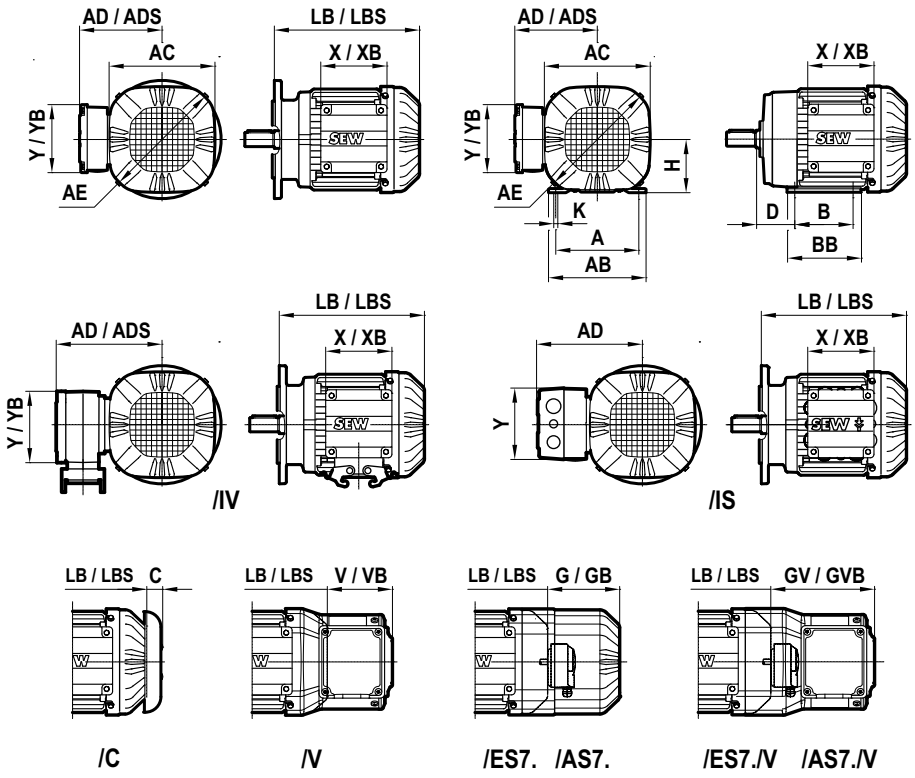
1.1 kW / 50 Hz	DT90S4	DRE90M4	
M_N[Nm]	7.5	7.4	–1.3 %
n_N [rpm]	1400	1420	1.4 %
M_A/M_N	2	2.8	40.0 %
M_H/M_N	1.9	2.3	21.1 %
I_N [A]	2.8	2.45	–12.5 %
I_A/I_N	4.3	5.9	37.2 %
cos φ	0.77	0.79	2.6 %
η 75% A [%]	77.5	83.5	7.7 %
η 100% A [%]	76.5	82.4	7.7 %
η 75% B [%]	77.5	84.8	9.4 %
η 100% B [%]	76.5	83.8	9.5 %
J_{Mot} [10^{-4} kgm²]	25	35.5	42.0 %
J_{BMot} [10^{-4} kgm²]	31	40	29.0 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	125	135.3	8.2 %
m_{Mot} [kg]	16	18.43	15.0 %
m_{BMot} [kg]	26	23	–11.5 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	2500	3000	20.0 %
Z_{0BGE} [1/h]	6300	8000	27.0 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	55	40	–27.3 %

3.7.2 Dimensioning [mm]

1.1 kW / 50 Hz	DT90S4	DRE90M4	
AC	197	179	–18
AD	166	140	–26
ADS	166	150	–16
AE[1)]	–	202.5	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	273	262	–11
LB B9	214	205	–9
LB LIA120	276	267	–9
LB LIA160	269	262	–7
LB LIA200	261	254	–7
LB LIA250	–	250	–
LB LIA300	–	244	–
LB LIA350	–	238	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	94	+9
LB FF	273	266	–7
IEC D	24	24	0
IEC L	50	50	0
RZ D	14	12	–2
H	90	90	0
A	140	140	0
B	125	125	0
D	56	56	0
K	9	10	+1
AB	176	165	–11
BB	152	158	+6
C	34	31	–3
V	85	125.5	+40.5
VB	66	106	+40
AD /IS	182	169	–13
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	174	158	–16
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	174	159	–15
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	77	81.5	+4.5
GB /E	77	81	+4
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	184	+4

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.8 D(F)T90S4 ↔ DRP90L4, 1.1 kW, 50 Hz



3.8.1 Technical data

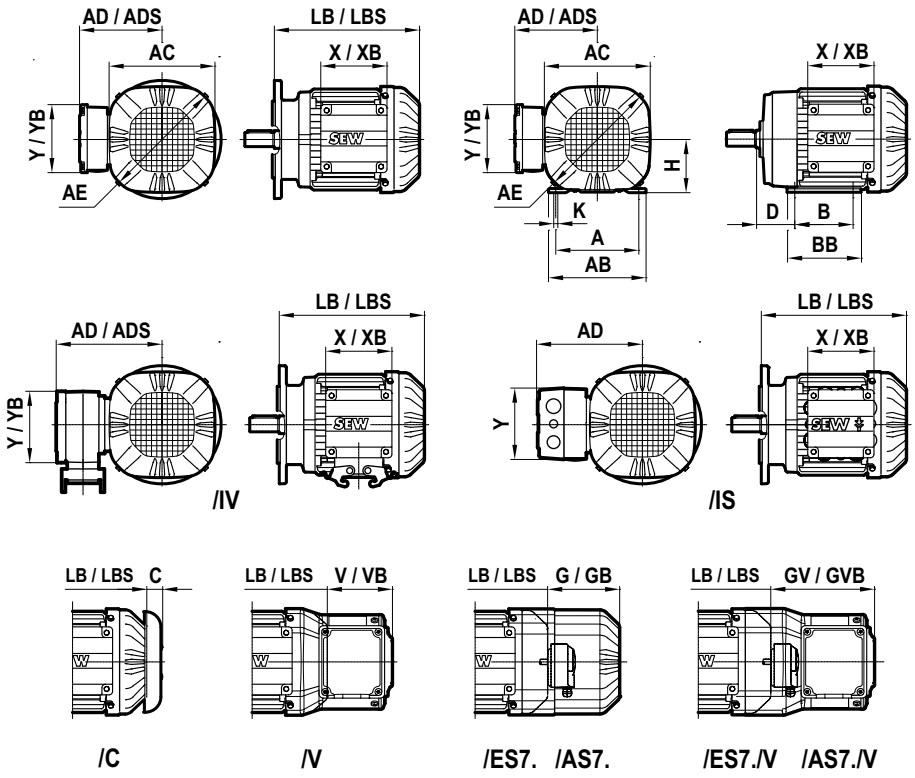
1.1 kW / 50 Hz	DT90S4	DRP90L4	
M_N[Nm]	7.5	7.3	–2.7 %
n_N [rpm]	1400	1440	2.9 %
M_A/M_N	2	3.2	60.0 %
M_H/M_N	1.9	2.7	42.1 %
I_N [A]	2.8	2.4	–14.3 %
I_A/I_N	4.3	6.8	58.1 %
cos φ	0.77	0.78	1.3 %
η 75% A [%]	77.5	86	11.0 %
η 100% A [%]	76.5	85.3	11.5 %
η 75% B [%]	77.5	86	11.0 %
η 100% B [%]	76.5	85.3	11.5 %
J_{Mot} [10^{-4} kgm²]	25	43.5	74.0 %
J_{BMot} [10^{-4} kgm²]	31	48.5	56.5 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	125	143.7	15.0 %
m_{Mot} [kg]	16	21.5	34.4 %
m_{BMot} [kg]	26	26	0 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	2500	2300	–8.0 %
Z_{0BGE} [1/h]	6300	5600	–11.1 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	55	30	–45.5 %

3.8.2 Dimensioning [mm]

1.1 kW / 50 Hz	DT90S4	DRP90L4	
AC	197	179	–18
AD	166	140	–26
ADS	166	150	–16
AE[1)]	–	202.5	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	273	282	+9
LB B9	214	225	+11
LB LIA120	276	291	+15
LB LIA160	269	282	+13
LB LIA200	261	274	+13
LB LIA250	–	270	–
LB LIA300	–	264	–
LB LIA350	–	258	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	94	+9
LB FF	273	286	+13
IEC D	24	24	0
IEC L	50	50	0
RZ D	14	12	–2
H	90	90	0
A	140	140	0
B	125	125	0
D	56	56	0
K	9	10	+1
AB	176	165	–11
BB	152	158	+6
C	34	31	–3
V	85	125.5	+40.5
VB	66	106	+40
AD /IS	182	169	–13
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	174	158	–16
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	174	159	–15
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	77	81.5	+4.5
GB /E	77	81	+4
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	184	+4

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.9 D(F)T90L4 ↔ DRS90M4, 1.5 kW, 50 Hz



3.9.1 Technical data

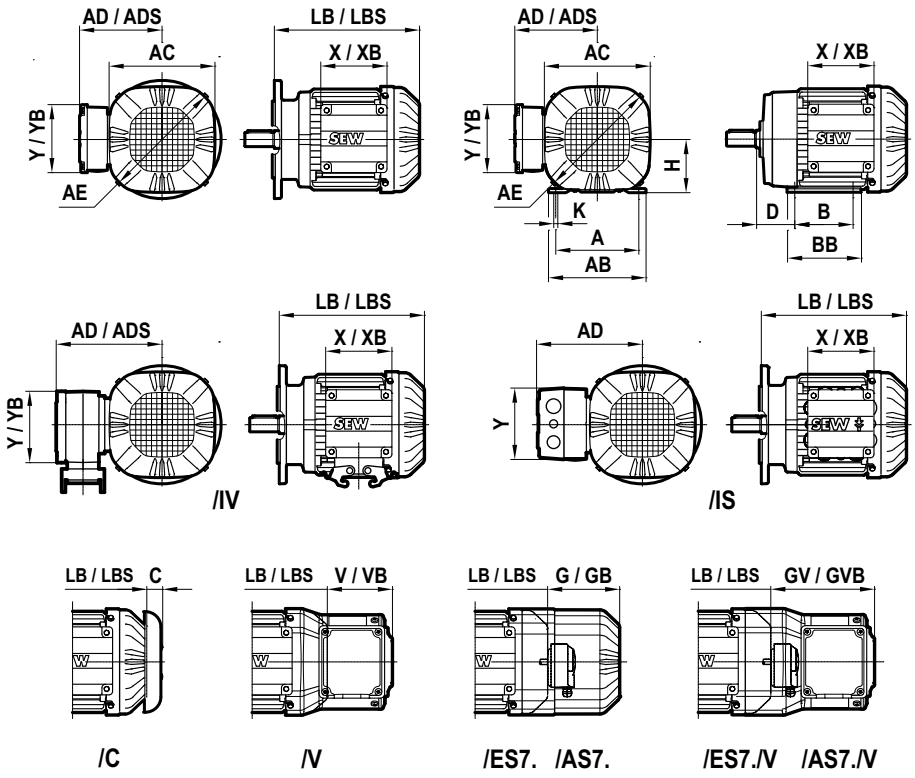
1.5 kW / 50 Hz	DT90L4	DRS90M4	
M_N[Nm]	10.2	10.3	1.0 %
n_N [rpm]	1410	1395	–1.1 %
M_A/M_N	2.6	2.3	–11.5 %
M_H/M_N	2.3	2	–13.0 %
I_N [A]	3.7	3.3	–10.8 %
I_A/I_N	5.3	5	–5.7 %
cos φ	0.78	0.82	5.1 %
η 75% A [%]	80.2	82	2.2 %
η 100% A [%]	79	79.6	0.8 %
η 75% B [%]	80.2	82.4	2.7 %
η 100% B [%]	79	80.2	1.5 %
J_{Mot} [10^{-4} kgm²]	34	35.5	4.4 %
J_{BMot} [10^{-4} kgm²]	40	40	0 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	134	135.3	1.0 %
m_{Mot} [kg]	18	18.4	2.2 %
m_{BMot} [kg]	28	23	–17.9 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	3000	2900	–3.3 %
Z_{0BGE} [1/h]	7600	7500	–1.3 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	50	65	30 %

3.9.2 Dimensioning [mm]

1.5 kW / 50 Hz	DT90L4	DRS90M4	
AC	197	179	–18
AD	166	140	–26
ADS	166	150	–16
AE[1)]	–	202.5	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	273	262	–11
LB B9	214	205	–9
LB LIA120	276	267	–9
LB LIA160	269	262	–7
LB LIA200	261	254	–7
LB LIA250	–	250	–
LB LIA300	–	244	–
LB LIA350	–	238	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	94	+9
LB FF	273	266	–7
IEC D	24	24	0
IEC L	50	50	0
RZ D	14	14	0
H	90	90	0
A	140	140	0
B	125	125	0
D	56	56	0
K	9	10	+1
AB	176	165	–11
BB	152	158	+6
C	34	31	–3
V	85	125.5	+40.5
VB	66	106	+40
AD /IS	182	169	–13
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	174	158	–16
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	174	159	–15
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	77	81.5	+4.5
GB /E	77	81	+4
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	184	+4

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.10 D(F)T90L4 ↔ DRE90L4, 1.5 kW, 50 Hz



3.10.1 Technical data

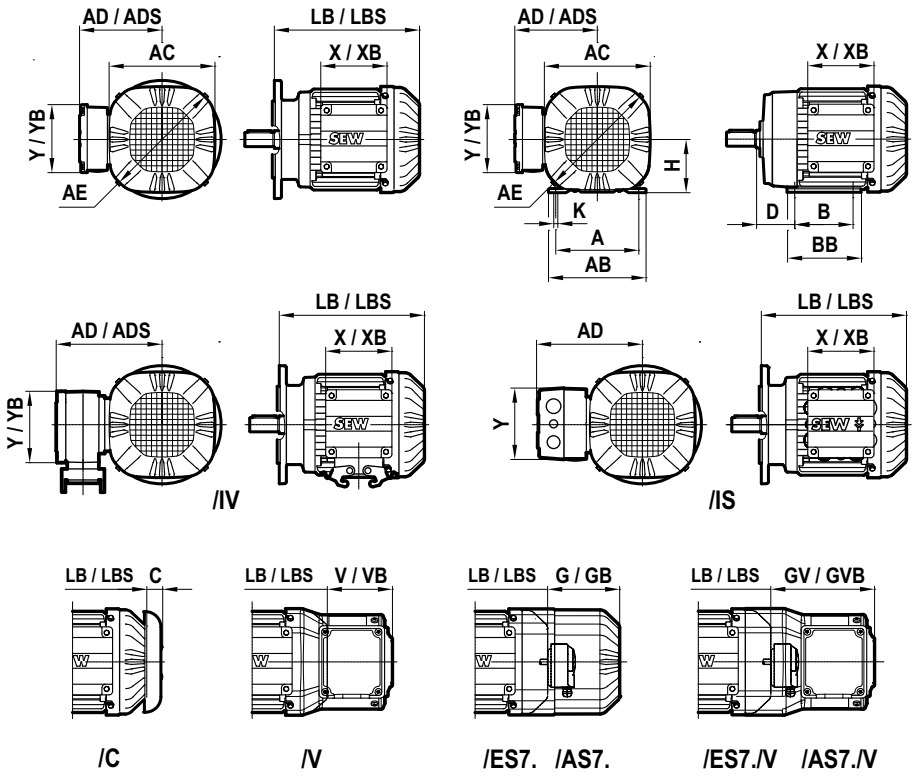
1.5 kW / 50 Hz	DT90L4	DRE90L4	
M_N[Nm]	10.2	10	–2.0 %
n_N [rpm]	1410	1430	1.4 %
M_A/M_N	2.6	3.2	23.1 %
M_H/M_N	2.3	2.8	21.7 %
I_N [A]	3.7	3.35	–9.5 %
I_A/I_N	5.3	6.6	24.5 %
cos φ	0.78	0.77	–1.3 %
η 75% A [%]	80.2	85.2	6.2 %
η 100% A [%]	79	84.5	7.0 %
η 75% B [%]	80.2	85.8	7.0 %
η 100% B [%]	79	85.2	7.8 %
J_{Mot} [10^{-4} kgm²]	34	43.5	27.9 %
J_{BMot} [10^{-4} kgm²]	40	49.5	23.8 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	134	143.5	7.1 %
m_{Mot} [kg]	18	21.5	19.4 %
m_{BMot} [kg]	28	27.5	–1.8 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	3000	3000	0 %
Z_{0BGE} [1/h]	7600	8000	5.3 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	50	45	–10.0 %

3.10.2 Dimensioning [mm]

1.5 kW / 50 Hz	DT90L4	DRE90L4	
AC	197	179	–18
AD	166	140	–26
ADS	166	150	–16
AE[1)]	–	202.5	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	273	282	+9
LB B9	214	225	+11
LB LIA120	276	291	+15
LB LIA160	269	282	+13
LB LIA200	261	274	+13
LB LIA250	–	270	–
LB LIA300	–	264	–
LB LIA350	–	258	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	94	+9
LB FF	273	286	+13
IEC D	24	24	0
IEC L	50	50	0
RZ D	14	14	0
H	90	90	0
A	140	140	0
B	125	125	0
D	56	56	0
K	9	10	+1
AB	176	165	–11
BB	152	158	+6
C	34	31	–3
V	85	125.5	+40.5
VB	66	106	+40
AD /IS	182	169	–13
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	174	158	–16
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	174	159	–15
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	77	81.5	+4.5
GB /E	77	81	+4
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	184	+4

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.11 D(F)T90L4 ↔ DRP100M4, 1.5 kW, 50 Hz



3.11.1 Technical data

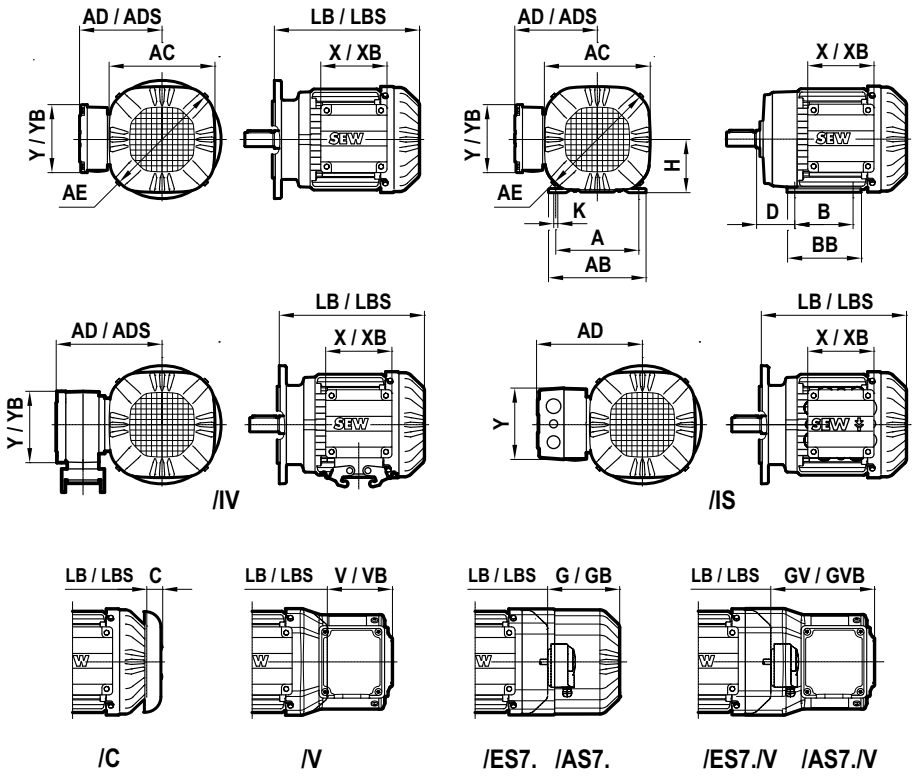
1.5 kW / 50 Hz	DT90L4	DRP100M4	
M_N[Nm]	10.2	9.9	–2.9 %
n_N [rpm]	1410	1440	2.1 %
M_A/M_N	2.6	3.6	38.5 %
M_H/M_N	2.3	3.1	34.8 %
I_N [A]	3.7	3.2	–13.5 %
I_A/I_N	5.3	7.4	39.6 %
cos φ	0.78	0.79	1.3 %
η 75% A [%]	80.2	87.2	8.7 %
η 100% A [%]	79	86.6	9.6 %
η 75% B [%]	80.2	87.2	8.7 %
η 100% B [%]	79	86.6	9.6 %
J_{Mot} [10^{-4} kgm²]	34	56	64.7 %
J_{BMot} [10^{-4} kgm²]	40	61	52.5 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	134	191	42.5 %
m_{Mot} [kg]	18	26	44.4 %
m_{BMot} [kg]	28	30.5	8.9 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	3000	1800	–40 %
Z_{0BGE} [1/h]	7600	8500	11.8 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	50	30	–40.0 %

3.11.2 Dimensioning [mm]

1.5 kW / 50 Hz	DT90L4	DRP100M4	
AC	197	197	0
AD	166	157	–9
ADS	166	158	–8
AE[1)]	–	202.5	–
X	87	112	+25
Y	97	115	+18
XB	127	145	+18
YB	97	115	+18
LB	273	304	+31
LB B9	214	255	+41
LB LIA120	276	321	+45
LB LIA160	269	312	+43
LB LIA200	261	304	+43
LB LIA250	–	300	–
LB LIA300	–	294	–
LB LIA350	–	288	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	94	+9
LB FF	273	316	+43
IEC D	24	24	0
IEC L	50	50	0
RZ D	14	14	0
H	90	100	+10
A	140	160	+20
B	125	140	+15
D	56	63	+7
K	9	12	+3
AB	176	190	+14
BB	152	180	+28
C	34	31	–3
V	85	106	+21
VB	66	114	+48
AD /IS	182	177	–5
X /IS	100	117	+17
Y /IS	100	117	+17
AD /IV	174	166	–8
X /IV	87	112	+25
Y /IV	97	115	+18
ADS /IV	174	167	–7
XB /IV	87	145	+58
YB /IV	97	115	+18
G /E	77	81.5	+4.5
GB /E	77	81	+4
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	184	+4

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.12 D(F)V100M4 ↔ DRS90L4, 2.2 kW, 50 Hz



3.12.1 Technical data

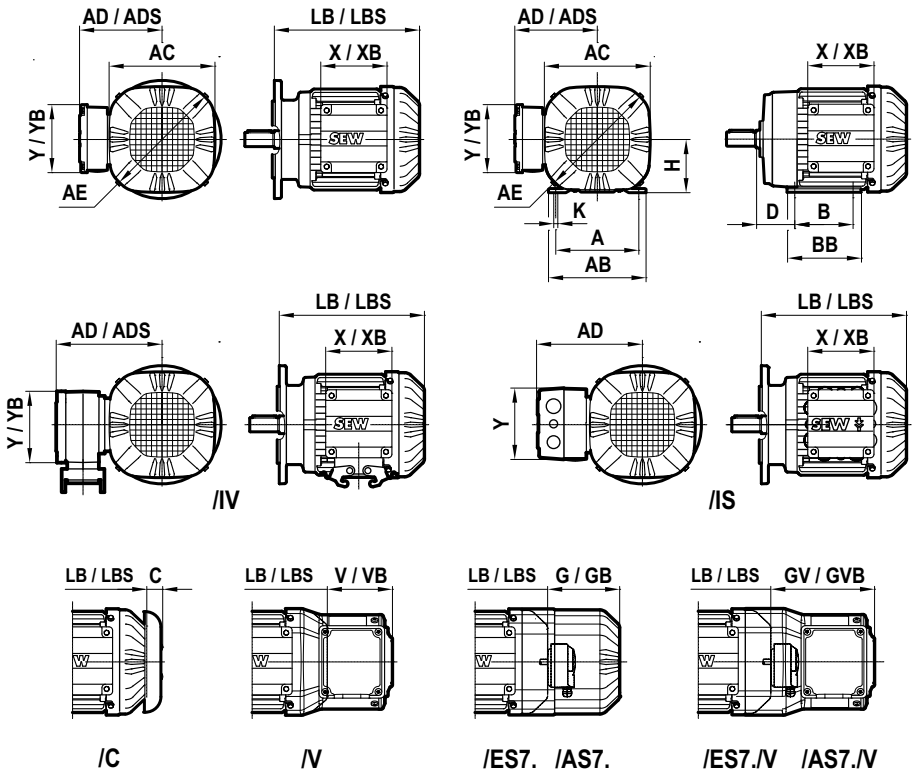
2.2 kW / 50 Hz	DV100M4	DRS90L4	
M_N[Nm]	15	15	0 %
n_N [rpm]	1410	1400	–0.7 %
M_A/M_N	2.7	2.5	–7.4 %
M_H/M_N	2.3	2.2	–4.3 %
I_N [A]	4.9	4.85	–1.0 %
I_A/I_N	5.9	5.1	–13.6 %
cos φ	0.83	0.81	–2.4 %
η 75% A [%]	82.8	83.1	0.4 %
η 100% A [%]	82	81.1	–1.1 %
η 75% B [%]	82.8	83.2	0.5 %
η 100% B [%]	82	81.3	–0.9 %
J_{Mot} [10^{-4} kgm²]	53	43.5	–17.9 %
J_{BMot} [10^{-4} kgm²]	59	49.5	–16.1 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	188	143.5	–23.7 %
m_{Mot} [kg]	27	21.5	–20.4 %
m_{BMot} [kg]	37	27.5	–25.7 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	1800	–	–
Z_{0BGE} [1/h]	8500	5600	–34.1 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	55	80	45.5 %

3.12.2 Dimensioning [mm]

2.2 kW / 50 Hz	DV100M4	DRS90L4	
AC	197	179	–18
AD	166	140	–26
ADS	166	150	–16
AE[1)]	–	202.5	–
X	106	112	+6
Y	109	115	+6
XB	139	145	+6
YB	109	115	+6
LB	311	282	–29
LB B9	–	225	–
LB LIA120	328	291	–37
LB LIA160	319	282	–37
LB LIA200	311	274	–37
LB LIA250	–	270	–
LB LIA300	–	264	–
LB LIA350	–	258	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	94	+9
LB FF	311	286	–25
IEC D	28	28	0
IEC L	60	60	0
RZ D	16	16	0
H	100	100	0
A	160	160	0
B	140	140	0
D	63	63	0
K	12	12	0
AB	188	184	–4
BB	170	175.5	+5.5
C	34	31	–3
V	85	125.5	+40.5
VB	66	106	+40
AD /IS	185	169	–16
X /IS	116	117	+1
Y /IS	116	117	+1
AD /IV	170	158	–12
X /IV	106	112	+6
Y /IV	109	115	+6
ADS /IV	170	159	–11
XB /IV	106	145	+39
YB /IV	109	115	+6
G /E	77	81.5	+4.5
GB /E	77	81	+4
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	184	+4

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.13 D(F)V100M4 ↔ DRE100M4, 2.2 kW, 50 Hz



3.13.1 Technical data

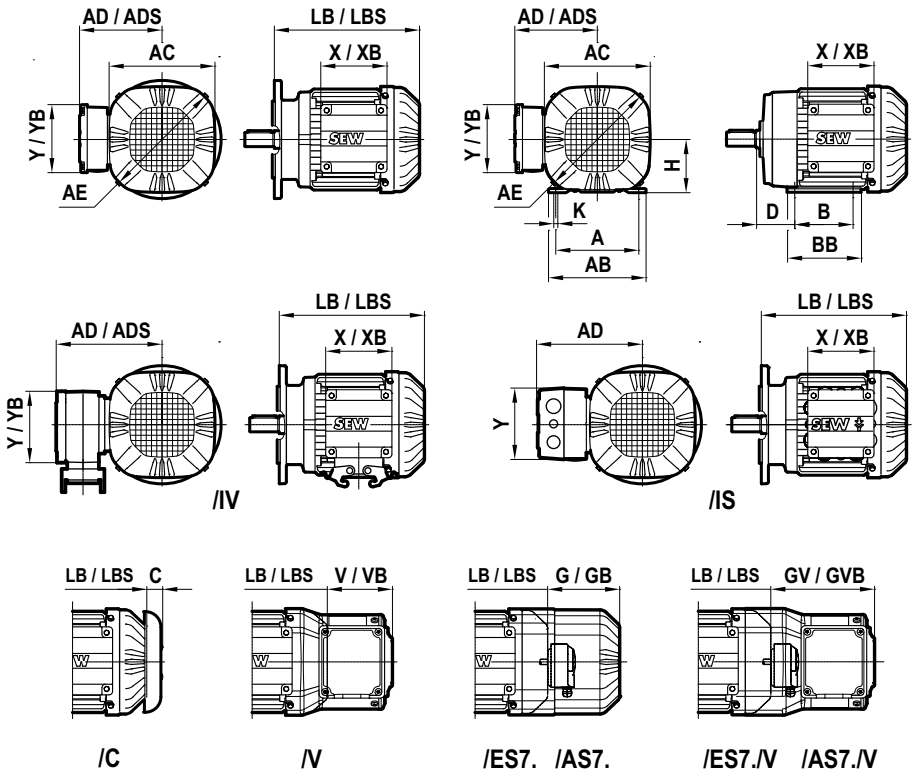
2.2 kW / 50 Hz	DV100M4	DRE100M4	
M_N[Nm]	15	14.7	–2.0 %
n_N [rpm]	1410	1425	1.1 %
M_A/M_N	2.7	3.3	22.2 %
M_H/M_N	2.3	2.7	17.4 %
I_N [A]	4.9	4.6	–6.1 %
I_A/I_N	5.9	6.4	8.5 %
cos φ	0.83	0.8	–3.6 %
η 75% A [%]	82.8	86.7	4.7 %
η 100% A [%]	82	85.4	4.1 %
η 75% B [%]	82.8	87.5	5.7 %
η 100% B [%]	82	86.4	5.4 %
J_{Mot} [10^{-4} kgm²]	53	56	5.7 %
J_{BMot} [10^{-4} kgm²]	59	62	5.1 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	188	191	1.6 %
m_{Mot} [kg]	27	26	–3.7 %
m_{BMot} [kg]	37	32	–13.5 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	1800	–	–
Z_{0BGE} [1/h]	8500	8000	–5.9 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	55	45	–18.2 %

3.13.2 Dimensioning [mm]

2.2 kW / 50 Hz	DV100M4	DRE100M4	
AC	197	197	0
AD	166	157	–9
ADS	166	158	–8
AE[1)]	–	202.5	–
X	106	112	+6
Y	109	115	+6
XB	139	145	+6
YB	109	115	+6
LB	311	304	–7
LB B9	–	255	–
LB LIA120	328	321	–7
LB LIA160	319	312	–7
LB LIA200	311	304	–7
LB LIA250	–	300	–
LB LIA300	–	294	–
LB LIA350	–	288	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	94	+9
LB FF	311	316	+5
IEC D	28	28	0
IEC L	60	60	0
RZ D	16	16	0
H	100	100	0
A	160	160	0
B	140	140	0
D	63	63	0
K	12	12	0
AB	188	190	+2
BB	170	180	+10
C	34	31	–3
V	85	106	+21
VB	66	114	+48
AD /IS	185	177	–8
X /IS	116	117	+1
Y /IS	116	117	+1
AD /IV	170	166	–4
X /IV	106	112	+6
Y /IV	109	115	+6
ADS /IV	170	167	–3
XB /IV	106	145	+39
YB /IV	109	115	+6
G /E	77	81.5	+4.5
GB /E	77	81	+4
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	184	+4

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.14 D(F)V100M4 ↔ DRP100L4, 2.2 kW, 50 Hz



3.14.1 Technical data

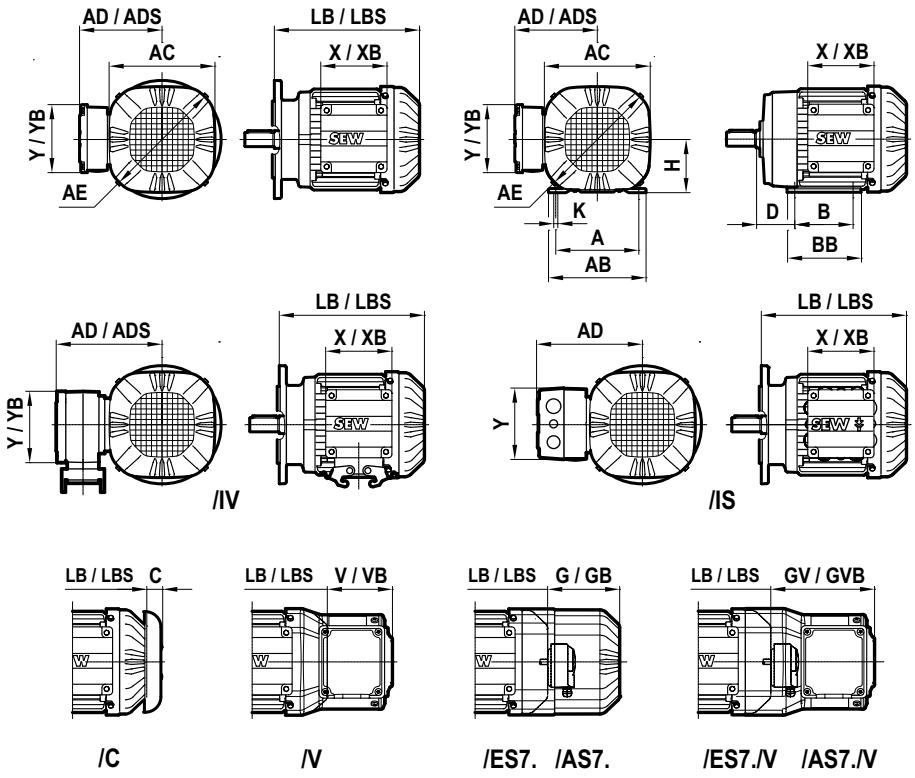
2.2 kW / 50 Hz	DV100M4	DRP100L4	
M_N[Nm]	15	14.6	–2.7 %
n_N [rpm]	1410	1440	2.1 %
M_A/M_N	2.7	4.2	55.6 %
M_H/M_N	2.3	3.2	39.1 %
I_N [A]	4.9	4.75	–3.1 %
I_A/I_N	5.9	7.7	30.5 %
cos φ	0.83	0.77	–7.2 %
η 75% A [%]	82.8	87.5	5.7 %
η 100% A [%]	82	87.1	6.2 %
η 75% B [%]	82.8	87.9	6.2 %
η 100% B [%]	82	87.5	6.7 %
J_{Mot} [10^{-4} kgm²]	53	68	28.3 %
J_{BMot} [10^{-4} kgm²]	59	74	25.4 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	188	218	16.0 %
m_{Mot} [kg]	27	29	7.4 %
m_{BMot} [kg]	37	35	–5.4 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	1800	–	–
Z_{0BGE} [1/h]	8500	7600	–10.6 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	55	40	–27.3 %

3.14.2 Dimensioning [mm]

2.2 kW / 50 Hz	DV100M4	DRP100L4	
AC	197	197	0
AD	166	157	–9
ADS	166	158	–8
AE[1)]	–	202.5	–
X	106	112	+6
Y	109	115	+6
XB	139	145	+6
YB	109	115	+6
LB	311	334	+23
LB B9	–	285	–
LB LIA120	328	351	+23
LB LIA160	319	342	+23
LB LIA200	311	334	+23
LB LIA250	–	330	–
LB LIA300	–	324	–
LB LIA350	–	318	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	94	+9
LB FF	311	346	+35
IEC D	28	28	0
IEC L	60	60	0
RZ D	16	16	0
H	100	100	0
A	160	160	0
B	140	140	0
D	63	70	+7
K	12	12	0
AB	188	220	+32
BB	170	180	+10
C	34	31	–3
V	85	106	+21
VB	66	114	+48
AD /IS	185	177	–8
X /IS	116	117	+1
Y /IS	116	117	+1
AD /IV	170	166	–4
X /IV	106	112	+6
Y /IV	109	115	+6
ADS /IV	170	167	–3
XB /IV	106	145	+39
YB /IV	109	115	+6
G /E	77	81.5	+4.5
GB /E	77	81	+4
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	184	+4

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.15 D(F)V100L4 ↔ DRS100M4, 3 kW, 50 Hz



3.15.1 Technical data

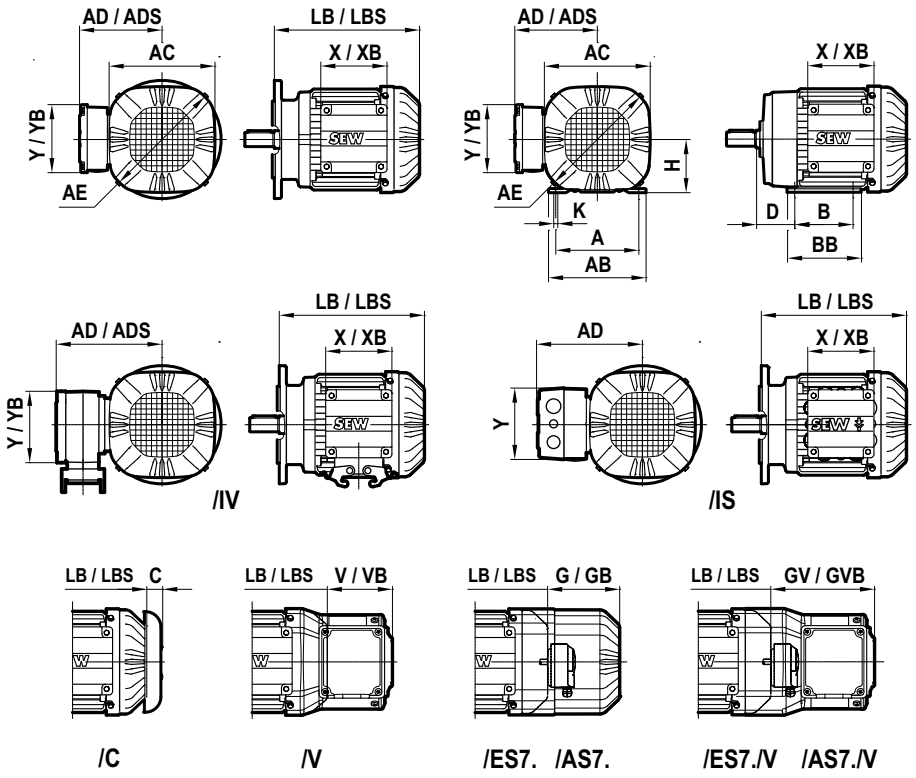
3 kW / 50 Hz	DV100L4	DRS100M4	
M_N[Nm]	20.5	20.5	0 %
n_N [rpm]	1400	1400	0 %
M_A/M_N	2.7	2.8	3.7 %
M_H/M_N	2.2	2.4	9.1 %
I_N [A]	6.5	6.4	–1.5 %
I_A/I_N	5.6	5.3	–5.4 %
cos φ	0.83	0.82	–1.2 %
η 75% A [%]	84.5	84.7	0.2 %
η 100% A [%]	83	82.4	–0.7 %
η 75% B [%]	84.5	84.8	0.4 %
η 100% B [%]	83	82.7	–0.4 %
J_{Mot} [10^{-4} kgm²]	65	56	–13.8 %
J_{BMot} [10^{-4} kgm²]	71	62	–12.7 %
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	200	191	–4.5 %
m_{Mot} [kg]	30	26	–13.3 %
m_{BMot} [kg]	40	32	–20.0 %
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	1800	–	–
Z_{0BGE} [1/h]	7600	8500	11.8 %
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	65	80	23.1 %

3.15.2 Dimensioning [mm]

3 kW / 50 Hz	DV100L4	DRS100M4	
AC	197	197	0
AD	166	157	–9
ADS	166	158	–8
AE[1)]	–	202.5	–
X	106	112	+6
Y	109	115	+6
XB	139	145	+6
YB	109	115	+6
LB	341	304	–37
LB B9	–	255	–
LB LIA120	358	321	–37
LB LIA160	349	312	–37
LB LIA200	341	304	–37
LB LIA250	337	300	–37
LB LIA300	–	294	–
LB LIA350	–	288	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	–	–
Delta LBS	85	94	+9
LB FF	341	316	–25
IEC D	28	28	0
IEC L	60	60	0
RZ D	16	16	0
H	100	100	0
A	160	160	0
B	140	140	0
D	63	63	0
K	12	12	0
AB	188	190	+2
BB	170	180	+10
C	34	31	–3
V	85	106	+21
VB	66	114	+48
AD /IS	185	177	–8
X /IS	116	117	+1
Y /IS	116	117	+1
AD /IV	170	166	–4
X /IV	106	112	+6
Y /IV	109	115	+6
ADS /IV	170	167	–3
XB /IV	106	145	+39
YB /IV	109	115	+6
G /E	77	81.5	+4.5
GB /E	77	81	+4
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	184	+4

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.16 D(F)V100L4 ↔ DRE100LC4, DRE112M4, 3 kW, 50 Hz



3.16.1 Technical data

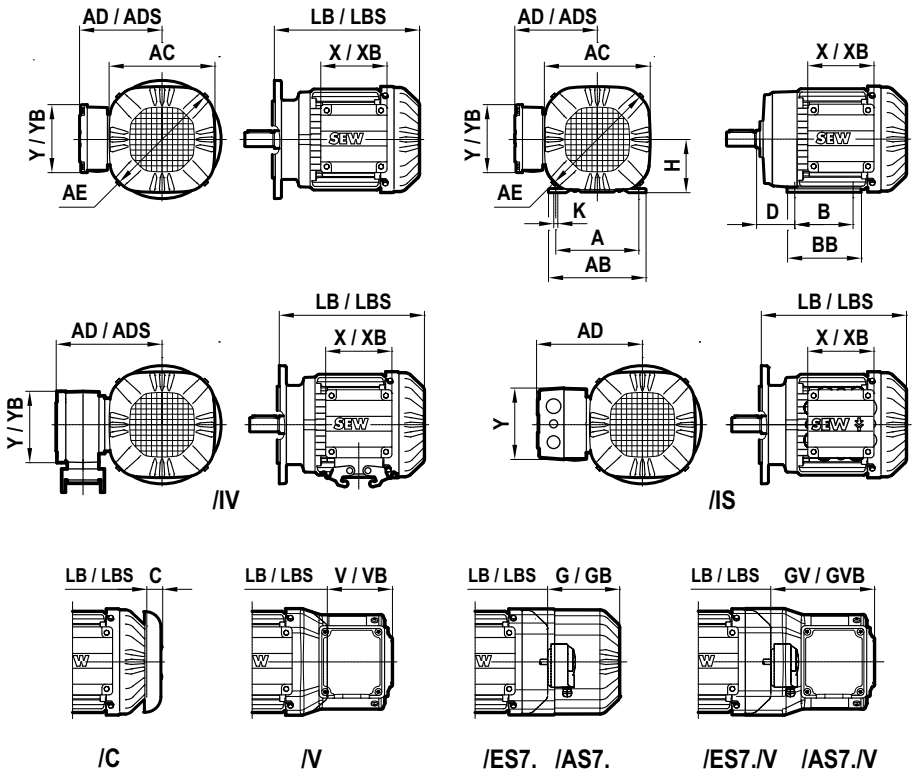
3 kW / 50 Hz	DV100L4	DRE100LC4		DRE112M4	
M_N[Nm]	20.5	19.7	–3.9%	19.7	–3.9%
n_N [rpm]	1400	1455	3.9%	1455	3.9%
M_A/M_N	2.7	2.7	0%	2.4	–11.1%
M_H/M_N	2.2	2.4	9.1%	2	–9.1%
I_N [A]	6.5	6.2	–4.6%	6	–7.7%
I_A/I_N	5.6	7.5	33.9%	7.3	30.4%
cos φ	0.83	0.81	–2.4%	0.82	–1.2%
η 75% A [%]	84.5	87.6	3.7%	88.6	4.9%
η 100% A [%]	83	86.8	4.6%	87.7	5.7%
η 75% B [%]	84.5	88.2	4.4%	89.3	5.7%
η 100% B [%]	83	87.6	5.5%	88.8	7.0%
J_{Mot} [10^{-4} kgm²]	65	90	38.5%	146	124.6%
J_{BMot} [10^{-4} kgm²]	71	96	35.2%	151	112.7%
J_{2BMot} [10^{-4} kgm²]	–	–	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	200	240	20.0%	346	73.0%
m_{Mot} [kg]	30	31	3.3%	41.5	38.3%
m_{BMot} [kg]	40	37	–7.5%	50	25.0%
m_{2BMot} [kg]	–	–	–	–	–
Z_{0BG} [1/h]	1800	–	–	–	–
Z_{0BGE} [1/h]	7600	3800	–50.0%	3100	–59.2%
Z_{0BGE_2} [1/h]	–	–	–	–	–
S1 temp. [K]	65	50	–23.1%	40	–38.5%

3.16.2 Dimensioning [mm]

3 kW / 50 Hz	DV100L4	DRE100LC4		DRE112M4	
AC	197	197	0	221	+24
AD	166	157	–9	170	+4
ADS	166	158	–8	171.5	+5.5
AE[1)]	–	202.5	–	202.5	–
X	106	112	+6	112	+6
Y	109	115	+6	115	+6
XB	139	145	+6	145	+6
YB	109	115	+6	115	+6
LB	341	334	–7	344	+3
LB B9	–	285	–	–	–
LB LIA120	358	351	–7	–	–
LB LIA160	349	342	–7	351	+2
LB LIA200	341	334	–7	344	+3
LB LIA250	337	330	–7	339	+2
LB LIA300	–	324	–	334	–
LB LIA350	–	318	–	328	–
LB L08400	–	–	–	321	–
LB L08450	–	–	–	313	–
LB L08550	–	–	–	–	–
Delta LBS	85	94	+9	112	+27
LB FF	341	346	+5	352	+11
IEC D	28	28	0	28	0
IEC L	60	60	0	60	0
RZ D	16	16	0	16	0
H	100	100	0	112	+12
A	160	160	0	190	+30
B	140	140	0	140	0
D	63	63	0	70	+7
K	12	12	0	12	0
AB	188	190	+2	220	+32
BB	170	180	+10	170	0
C	34	31	–3	31	–3
V	85	106	+21	107	+22
VB	66	114	+48	106	+40
AD /IS	185	177	–8	190.5	+5.5
X /IS	116	117	+1	117	+1
Y /IS	116	117	+1	117	+1
AD /IV	170	166	–4	179	+9
X /IV	106	112	+6	112	+6
Y /IV	109	115	+6	115	+6
ADS /IV	170	167	–3	180.5	+10.5
XB /IV	106	145	+39	145	+39
YB /IV	109	115	+6	115	+6
G /E	77	81.5	+4.5	125	+48
GB /E	77	81	+4	120.5	+43.5
GV /E+/V	180	183.5	+3.5	183.5	+3.5
GVB /E+/V	180	184	+4	183.5	+3.5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.17 D(F)V100L4 ↔ DRP112M4, 3 kW, 50 Hz



3.17.1 Technical data

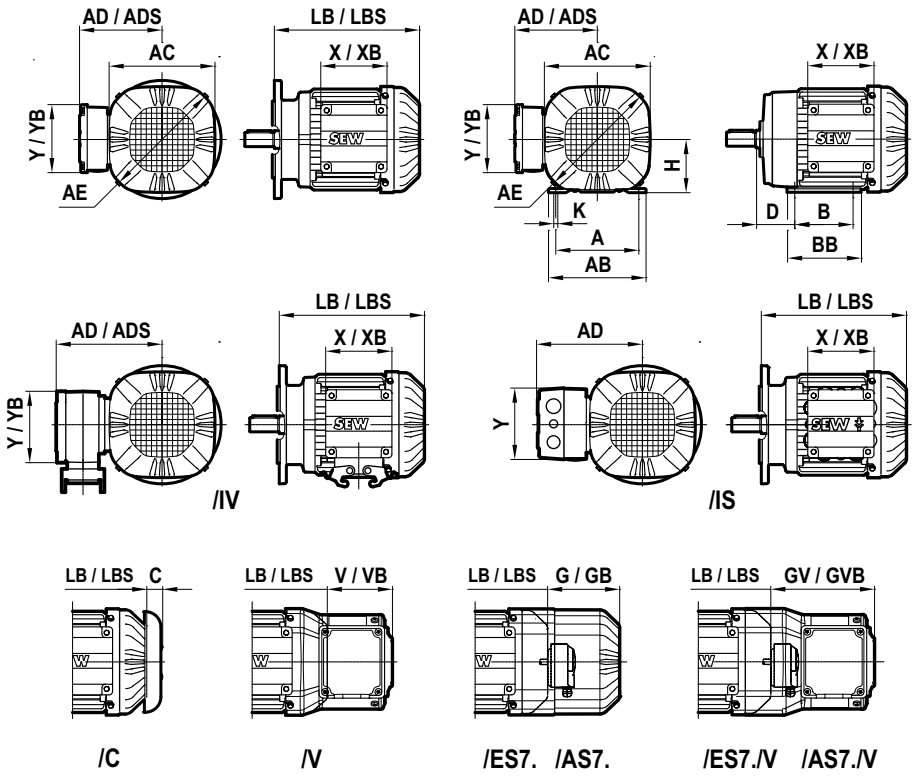
3 kW / 50 Hz	DV100L4	DRP112M4	
M_N[Nm]	20.5	19.7	–3.9%
n_N [rpm]	1400	1455	3.9%
M_A/M_N	2.7	2.4	–11.1%
M_H/M_N	2.2	2	–9.1%
I_N [A]	6.5	6	–7.7%
I_A/I_N	5.6	7.3	30.4%
cos φ	0.83	0.82	–1.2%
η 75% A [%]	84.5	88.7	5.0%
η 100% A [%]	83	88	6.0%
η 75% B [%]	84.5	89.2	5.6%
η 100% B [%]	83	88.4	6.5%
J_{Mot} [10^{-4} kgm²]	65	146	124.6%
J_{BMot} [10^{-4} kgm²]	71	151	112.7%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	200	346	73.0%
m_{Mot} [kg]	30	42	40.0%
m_{BMot} [kg]	40	51	27.5%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	1800	–	–
Z_{0BGE} [1/h]	7600	3100	–59.2%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	65	40	–38.5%

3.17.2 Dimensioning [mm]

3 kW / 50 Hz	DV100L4	DRP112M4	
AC	197	221	+24
AD	166	170	+4
ADS	166	171.5	+5.5
AE[1)]	–	246	–
X	106	112	+6
Y	109	115	+6
XB	139	145	+6
YB	109	115	+6
LB	341	344	+3
LB B9	–	–	–
LB LIA120	358	–	–
LB LIA160	349	351	+2
LB LIA200	341	344	+3
LB LIA250	337	339	+2
LB LIA300	–	334	–
LB LIA350	–	328	–
LB L08400	–	321	–
LB L08450	–	313	–
LB L08550	–	–	–
Delta LBS	85	112	+27
LB FF	341	352	+11
IEC D	28	28	0
IEC L	60	60	0
RZ D	16	16	0
H	100	112	+12
A	160	190	+30
B	140	140	0
D	63	70	+7
K	12	12	0
AB	188	220	+32
BB	170	170	0
C	34	31	–3
V	85	107	+22
VB	66	106	+40
AD /IS	185	190.5	+5.5
X /IS	116	117	+1
Y /IS	116	117	+1
AD /IV	170	179	+9
X /IV	106	112	+6
Y /IV	109	115	+6
ADS /IV	170	180.5	+10.5
XB /IV	106	145	+39
YB /IV	109	115	+6
G /E	77	125	+48
GB /E	77	120.5	+43.5
GV /E+/V	180	183.5	+3.5
GVB /E+/V	180	183.5	+3.5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.18 D(F)V112M4 ↔ DRS100LC4, DRS112M4, 4 kW, 50 Hz



3.18.1 Technical data

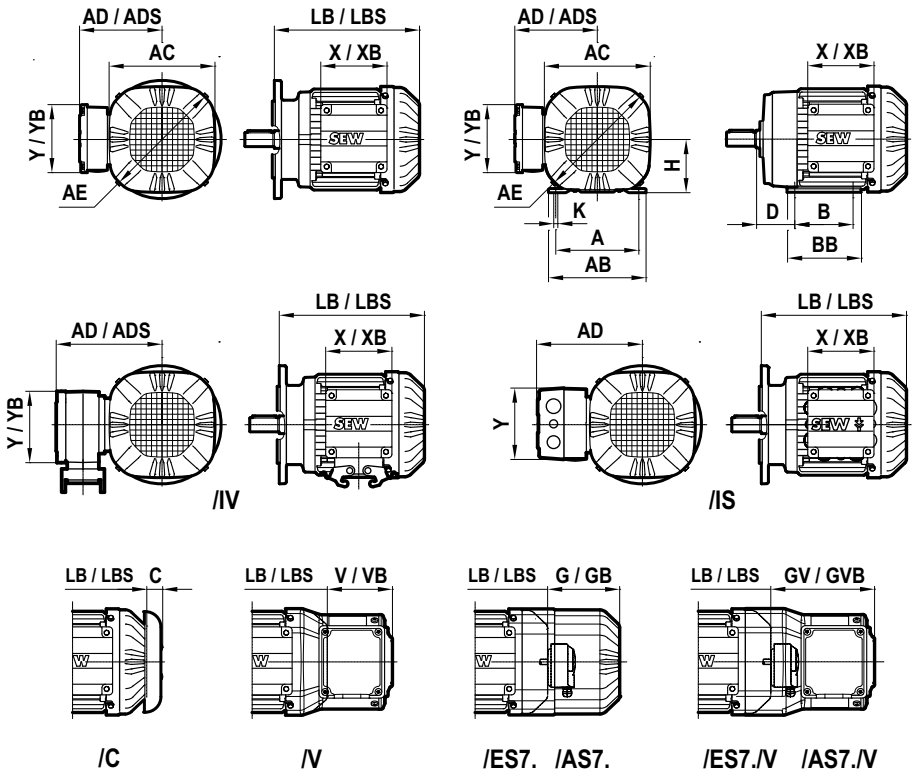
4 kW / 50 Hz	DV112M4	DRS100LC4		DRS112M4	
M_N[Nm]	26.9	26.5	–1.5%	26.5	–1.5%
n_N [rpm]	1420	1445	1.8%	1435	1.1%
M_A/M_N	2.4	2.5	4.2%	2	–16.7%
M_H/M_N	2.1	2.3	9.5%	1.7	–19.0%
I_N [A]	8.7	8.4	–3.4%	8.1	–6.9%
I_A/I_N	5.4	6.5	20.4%	6	11.1%
cos φ	0.84	0.81	–3.6%	0.84	0%
η 75% A [%]	85.9	86.4	0.6%	87.4	1.7%
η 100% A [%]	84.2	85.3	1.3%	85.6	1.7%
η 75% B [%]	85.9	86.6	0.8%	88.2	2.7%
η 100% B [%]	84.2	85.7	1.8%	86.9	3.2%
J_{Mot} [10^{-4} kgm²]	98	90	–8.2%	146	49.0%
J_{BMot} [10^{-4} kgm²]	110	96	–12.7%	151	37.3%
J_{2BMot} [10^{-4} kgm²]	–	–	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	278	240	–13.7%	346	24.5%
m_{Mot} [kg]	36	31	–13.9%	41.5	15.3%
m_{BMot} [kg]	45	37	–17.8%	50	11.1%
m_{2BMot} [kg]	–	–	–	–	–
Z_{0BG} [1/h]	–	–	–	–	–
Z_{0BGE} [1/h]	3800	3800	0%	3100	–18.4%
Z_{0BGE_2} [1/h]	–	–	–	–	–
S1 temp. [K]	75	80	6.7%	60	–20.0%

3.18.2 Dimensioning [mm]

4 kW / 50 Hz	DV112M4	DRS100LC4		DRS112M4	
AC	221	197	–24	221	0
AD	179	157	–22	170	–9
ADS	182	158	–24	171.5	–10.5
AE[1)]	–	202.5	–	246	–
X	106	112	+6	112	+6
Y	109	115	+6	115	+6
XB	139	145	+6	145	+6
YB	109	115	+6	115	+6
LB	349	334	–15	344	–5
LB B9	–	285	–	–	–
LB LIA120	–	351	–	–	–
LB LIA160	354	342	–12	351	–3
LB LIA200	345	334	–11	344	–1
LB LIA250	340	330	–10	339	–1
LB LIA300	–	324	–	334	–
LB LIA350	–	318	–	328	–
LB L08400	–	–	–	321	–
LB L08450	–	–	–	313	–
LB L08550	–	–	–	–	–
Delta LBS	80	94	+14	112	+32
LB FF	349	346	–3	352	+3
IEC D	28	28	0	28	0
IEC L	60	60	0	60	0
RZ D	18	18	0	18	0
H	112	112	0	112	0
A	190	190	0	190	0
B	140	140	0	140	0
D	70	70	0	70	0
K	12	12	0	12	0
AB	220	220	0	220	0
BB	170	180	+10	170	0
C	36	31	–5	31	–5
V	104	106	+2	107	+3
VB	54	114	+60	106	+52
AD /IS	199	177	–22	190.5	–8.5
X /IS	116	117	+1	117	+1
Y /IS	116	117	+1	117	+1
AD /IV	183	166	–17	179	–4
X /IV	106	112	+6	112	+6
Y /IV	109	115	+6	115	+6
ADS /IV	183	167	–16	180.5	–2.5
XB /IV	106	145	+39	145	+39
YB /IV	109	115	+6	115	+6
G /E	76	81.5	+5.5	125	+49
GB /E	76	81	+5	120.5	+44.5
GV /E+/V	143	183.5	+40.5	183.5	+40.5
GVB /E+/V	143	184	+41	183.5	+40.5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.19 D(F)V112M4 ↔ DRE132S4, 4 kW, 50 Hz



3.19.1 Technical data

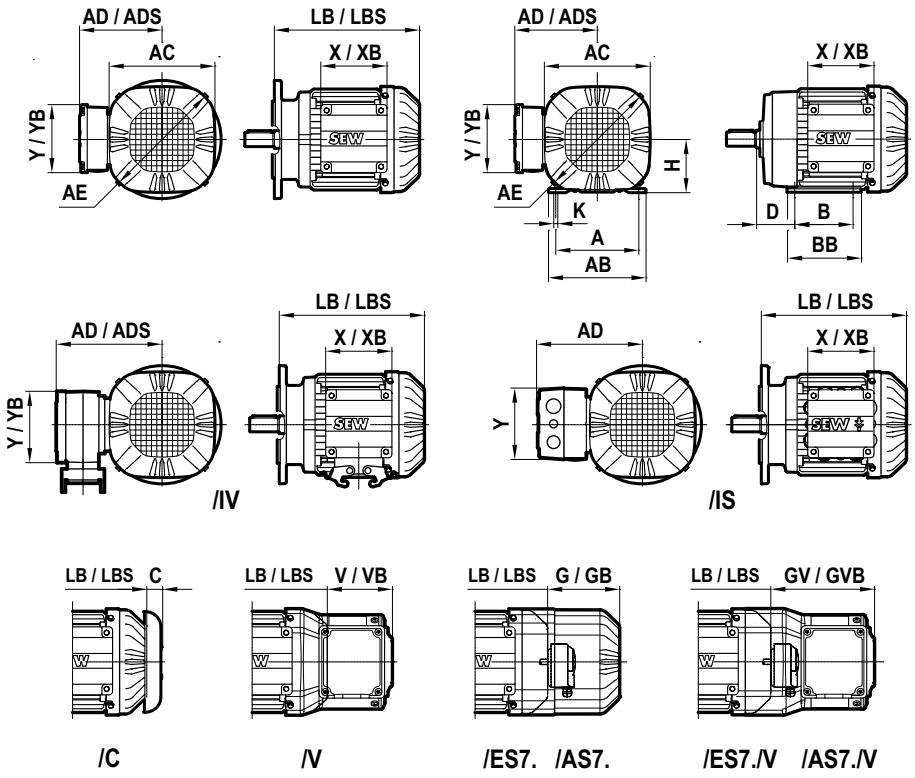
4 kW / 50 Hz	DV112M4	DRE132S4	
M_N[Nm]	26.9	26	–3.3%
n_N [rpm]	1420	1460	2.8%
M_A/M_N	2.4	2.7	12.5%
M_H/M_N	2.1	2.4	14.3%
I_N [A]	8.7	8	–8.0%
I_A/I_N	5.4	8	48.1%
cos φ	0.84	0.82	–2.4%
η 75% A [%]	85.9	89	3.6%
η 100% A [%]	84.2	88.2	4.8%
η 75% B [%]	85.9	89.8	4.5%
η 100% B [%]	84.2	89.6	6.4%
J_{Mot} [10^{-4} kgm²]	98	190	93.9%
J_{BMot} [10^{-4} kgm²]	110	200	81.8%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	278	390	40.3%
m_{Mot} [kg]	36	44	22.2%
m_{BMot} [kg]	45	59	31.1%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	3800	2800	–26.3%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	75	35	–53.3%

3.19.2 Dimensioning [mm]

4 kW / 50 Hz	DV112M4	DRE132S4	
AC	221	221	0
AD	179	170	–9
ADS	182	171.5	–10.5
AE[1)]	–	246	–
X	106	112	+6
Y	109	115	+6
XB	139	145	+6
YB	109	115	+6
LB	349	374	+25
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	354	390	+36
LB LIA200	345	379	+34
LB LIA250	340	374	+34
LB LIA300	–	369	–
LB LIA350	–	363	–
LB L08400	–	356	–
LB L08450	–	348	–
LB L08550	–	–	–
Delta LBS	80	112	+32
LB FF	349	387	+38
IEC D	28	28	0
IEC L	60	60	0
RZ D	18	18	0
H	112	112	0
A	190	190	0
B	140	140	0
D	70	70	0
K	12	12	0
AB	220	220	0
BB	170	170	0
C	36	31	–5
V	104	107	+3
VB	54	106	+52
AD /IS	199	190.5	–8.5
X /IS	116	117	+1
Y /IS	116	117	+1
AD /IV	183	179	–4
X /IV	106	112	+6
Y /IV	109	115	+6
ADS /IV	183	180.5	–2.5
XB /IV	106	145	+39
YB /IV	109	115	+6
G /E	76	125	+49
GB /E	76	120.5	+44.5
GV /E+/V	143	183.5	+40.5
GVB /E+/V	143	183.5	+40.5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.20 D(F)V112M4 ↔ DRP132M4, 4 kW, 50 Hz



3.20.1 Technical data

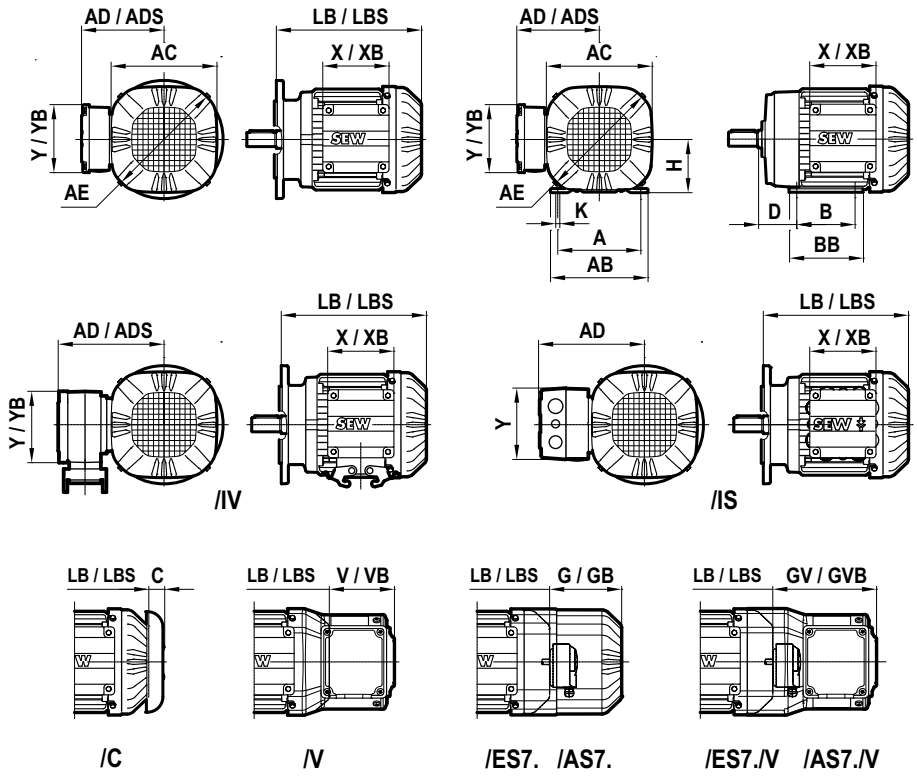
4 kW / 50 Hz	DV112M4	DRP132M4	
M_N[Nm]	26.9	26	–3.3%
n_N [rpm]	1420	1465	3.2%
M_A/M_N	2.4	2.6	8.3%
M_H/M_N	2.1	2	–4.8%
I_N [A]	8.7	7.7	–11.5%
I_A/I_N	5.4	8.9	64.8%
cos φ	0.84	0.84	0%
η 75% A [%]	85.9	90.4	5.2%
η 100% A [%]	84.2	89.7	6.5%
η 75% B [%]	85.9	90.4	5.2%
η 100% B [%]	84.2	89.7	6.5%
J_{Mot} [10^{-4} kgm²]	98	255	160.2%
J_{BMot} [10^{-4} kgm²]	110	265	140.9%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	278	555	99.6%
m_{Mot} [kg]	36	59	63.9%
m_{BMot} [kg]	45	73	62.2%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	3800	2000	–47.4%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	75	35	–53.3%

3.20.2 Dimensioning [mm]

4 kW / 50 Hz	DV112M4	DRP132M4	
AC	221	221	0
AD	179	170	–9
ADS	182	171.5	–10.5
AE[1)]	–	246	–
X	106	112	+6
Y	109	115	+6
XB	139	145	+6
YB	109	115	+6
LB	349	424	+75
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	354	440	+86
LB LIA200	345	429	+84
LB LIA250	340	424	+84
LB LIA300	–	419	–
LB LIA350	–	413	–
LB L08400	–	406	–
LB L08450	–	398	–
LB L08550	–	–	–
Delta LBS	80	112	+32
LB FF	349	437	+88
IEC D	28	28	0
IEC L	60	60	0
RZ D	18	18	0
H	112	132	+20
A	190	216	+26
B	140	178	+38
D	70	89	+19
K	12	12	0
AB	220	246	+26
BB	170	208	+38
C	36	31	–5
V	104	107	+3
VB	54	106	+52
AD /IS	199	190.5	–8.5
X /IS	116	117	+1
Y /IS	116	117	+1
AD /IV	183	179	–4
X /IV	106	112	+6
Y /IV	109	115	+6
ADS /IV	183	180.5	–2.5
XB /IV	106	145	+39
YB /IV	109	115	+6
G /E	76	125	+49
GB /E	76	120.5	+44.5
GV /E+/V	143	183.5	+40.5
GVB /E+/V	143	183.5	+40.5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.21 D(F)V132S4 ↔ DRS132S4, 5.5 kW, 50 Hz



3.21.1 Technical data

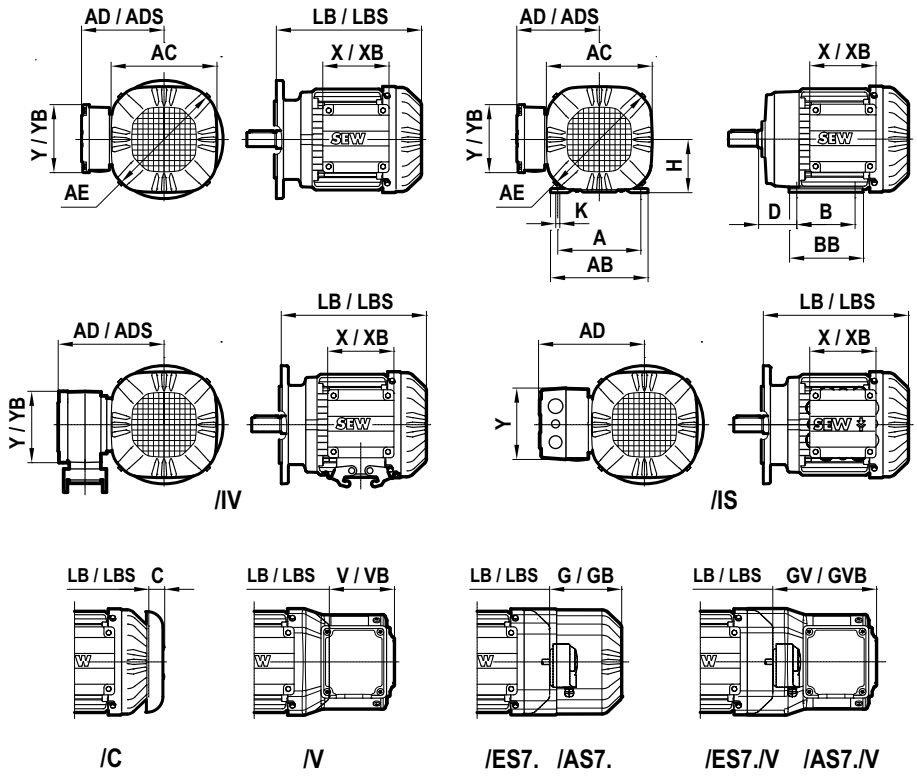
5.5 kW / 50 Hz	DV132S4	DRS132S4	
M_N[Nm]	36.7	36.5	–0.5%
n_N [rpm]	1430	1445	1.0%
M_A/M_N	2.7	2.4	–11.1%
M_H/M_N	2.4	2.1	–12.5%
I_N [A]	11.4	11.1	–2.6%
I_A/I_N	6	6.7	11.7%
cos φ	0.85	0.81	–4.7%
η 75% A [%]	87.6	88.2	0.7%
η 100% A [%]	85.7	87.1	1.6%
η 75% B [%]	87.6	88.6	1.1%
η 100% B [%]	85.7	87.8	2.5%
J_{Mot} [10^{-4} kgm²]	146	190	30.1%
J_{BMot} [10^{-4} kgm²]	158	200	26.6%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	361	390	8.0%
m_{Mot} [kg]	45	44	–2.2%
m_{BMot} [kg]	54	59	9.3%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	3000	2800	–6.7%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	80	60	–25.0%

3.21.2 Dimensioning [mm]

5.5 kW / 50 Hz	DV132S4	DRS132S4	
AC	221	221	0
AD	179	170	–9
ADS	182	171.5	–10.5
AE[1)]	–	246	–
X	106	112	+6
Y	109	115	+6
XB	139	145	+6
YB	109	115	+6
LB	394	374	–20
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	402	390	–12
LB LIA200	390	379	–11
LB LIA250	385	374	–11
LB LIA300	380	369	–11
LB LIA350	374	363	–11
LB L08400	367	356	–11
LB L08450	–	348	–
LB L08550	–	–	–
Delta LBS	80	112	+32
LB FF	394	387	–7
IEC D	38	38	0
IEC L	80	80	0
RZ D	22	22	0
H	132	132	0
A	216	216	0
B	140	140	0
D	89	89	0
K	12	12	0
AB	250	246	–4
BB	170	170	0
C	36	31	–5
V	104	107	+3
VB	54	106	+52
AD /IS	199	190.5	–8.5
X /IS	116	117	+1
Y /IS	116	117	+1
AD /IV	183	179	–4
X /IV	106	112	+6
Y /IV	109	115	+6
ADS /IV	183	180.5	–2.5
XB /IV	106	145	+39
YB /IV	109	115	+6
G /E	76	125	+49
GB /E	76	120.5	+44.5
GV /E+/V	143	183.5	+40.5
GVB /E+/V	143	183.5	+40.5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.22 D(F)V132S4 ↔ DRE132M4, 5.5 kW, 50 Hz



3.22.1 Technical data

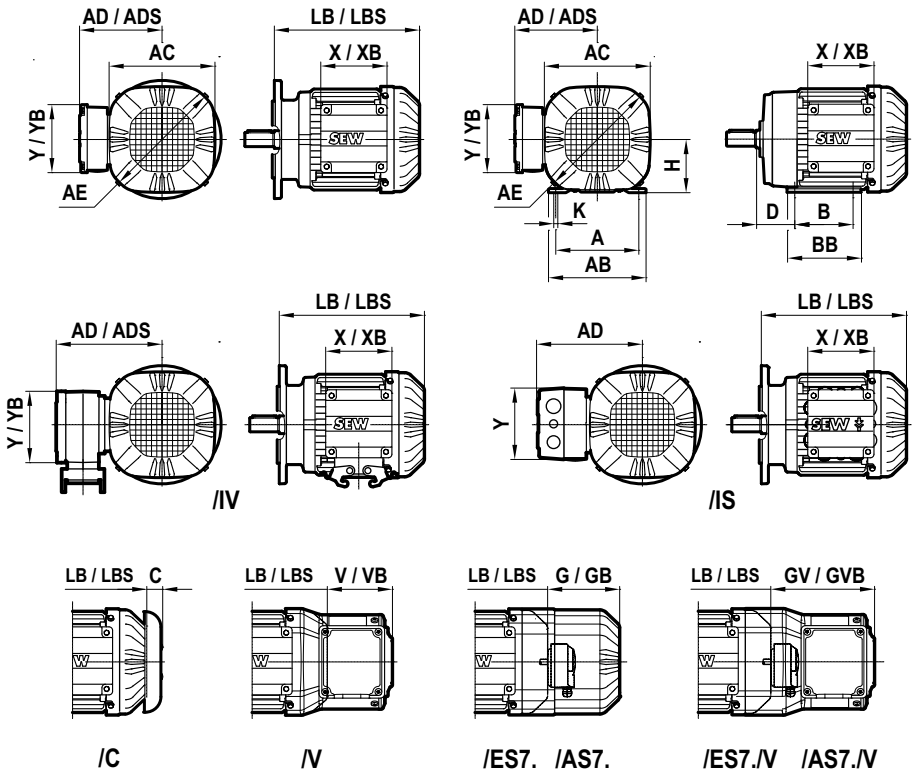
5.5 kW / 50 Hz	DV132S4	DRE132M4	
M_N[Nm]	36.7	36	–1.9%
n_N [rpm]	1430	1455	1.7%
M_A/M_N	2.7	2.6	–3.7%
M_H/M_N	2.4	1.9	–20.8%
I_N [A]	11.4	10.5	–7.9%
I_A/I_N	6	7.7	28.3%
cos φ	0.85	0.85	0%
η 75% A [%]	87.6	90.5	3.3%
η 100% A [%]	85.7	89.2	4.1%
η 75% B [%]	87.6	91.2	4.1%
η 100% B [%]	85.7	90.4	5.5%
J_{Mot} [10^{-4} kgm²]	146	255	74.7%
J_{BMot} [10^{-4} kgm²]	158	265	67.7%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	361	555	53.7%
m_{Mot} [kg]	45	60	33.3%
m_{BMot} [kg]	54	75	38.9%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	3000	2000	–33.3%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	80	45	–43.7%

3.22.2 Dimensioning [mm]

5.5 kW / 50 Hz	DV132S4	DRE132M4	
AC	221	221	0
AD	179	170	–9
ADS	182	171.5	–10.5
AE[1)]	–	246	–
X	106	112	+6
Y	109	115	+6
XB	139	145	+6
YB	109	115	+6
LB	394	424	+30
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	402	440	+38
LB LIA200	390	429	+39
LB LIA250	385	424	+39
LB LIA300	380	419	+39
LB LIA350	374	413	+39
LB L08400	367	406	+39
LB L08450	–	398	–
LB L08550	–	–	–
Delta LBS	80	112	+32
LB FF	394	437	+43
IEC D	38	38	0
IEC L	80	80	0
RZ D	22	22	0
H	132	132	0
A	216	216	0
B	140	178	+38
D	89	89	0
K	12	12	0
AB	250	246	–4
BB	170	208	+38
C	36	31	–5
V	104	107	+3
VB	54	106	+52
AD /IS	199	190.5	–8.5
X /IS	116	117	+1
Y /IS	116	117	+1
AD /IV	183	179	–4
X /IV	106	112	+6
Y /IV	109	115	+6
ADS /IV	183	180.5	–2.5
XB /IV	106	145	+39
YB /IV	109	115	+6
G /E	76	125	+49
GB /E	76	120.5	+44.5
GV /E+/V	143	183.5	+40.5
GVB /E+/V	143	183.5	+40.5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.23 D(F)V132S4 ↔ DRP132MC4, DRP160S4, 5.5 kW, 50 Hz



3.23.1 Technical data

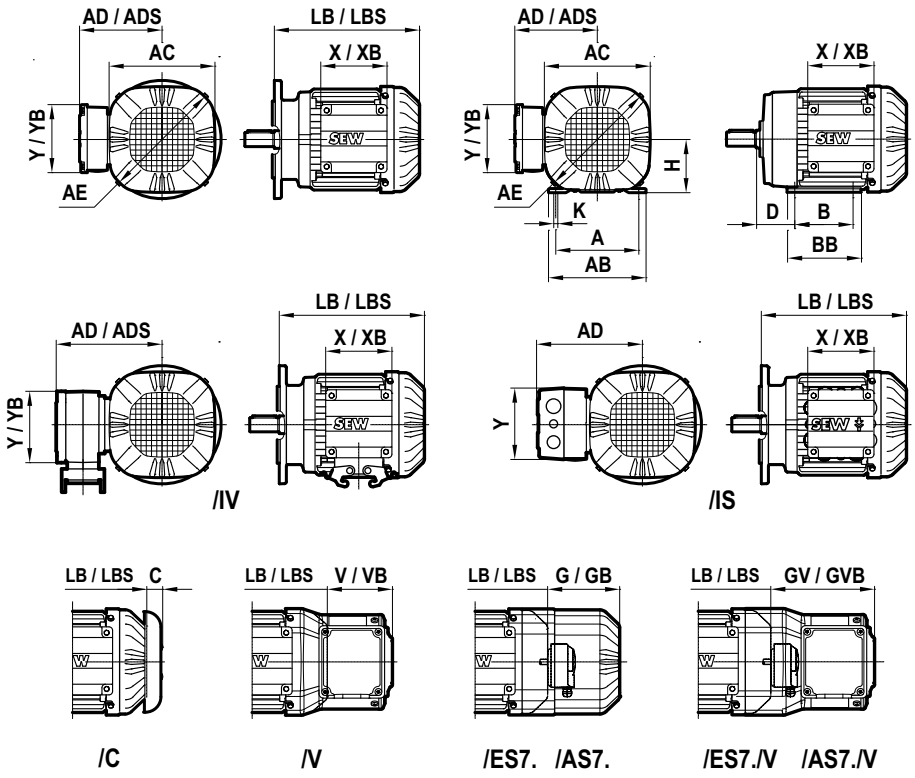
5.5 kW / 50 Hz	DV132S4	DRP132MC4		DRP160S4	
M_N[Nm]	36.7	35.5	–3.3%	35.5	–3.3%
n_N [rpm]	1430	1475	3.1%	1475	3.1%
M_A/M_N	2.7	2.3	–14.8%	3	11.1%
M_H/M_N	2.4	1.9	–20.8%	2.2	–8.3%
I_N [A]	11.4	11	–3.5%	10.9	–4.4%
I_A/I_N	6	8.8	46.7%	8	33.3%
cos φ	0.85	0.84	–1.2%	0.8	–5.9%
η 75% A [%]	87.6	90.7	3.5%	91.1	4.0%
η 100% A [%]	85.7	90	5.0%	90.7	5.8%
η 75% B [%]	87.6	90.7	3.5%	91.1	4.0%
η 100% B [%]	85.7	90	5.0%	90.7	5.8%
J_{Mot} [10^{-4} kgm²]	146	340	132.9%	370	153.4%
J_{BMot} [10^{-4} kgm²]	158	355	124.7%	390	146.8%
J_{2BMot} [10^{-4} kgm²]	–	–	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	361	640	77.3%	870	141.0%
m_{Mot} [kg]	45	62	37.8%	74	64.4%
m_{BMot} [kg]	54	76	40.7%	93	72.2%
m_{2BMot} [kg]	–	–	–	–	–
Z_{0BG} [1/h]	–	–	–	–	–
Z_{0BGE} [1/h]	3000	1500	–50.0%	1100	–63.3%
Z_{0BGE_2} [1/h]	–	–	–	–	–
S1 temp. [K]	80	50	–37.5%	35	–56.2%

3.23.2 Dimensioning [mm]

5.5 kW / 50 Hz	DV132S4	DRP132MC4		DRP160S4	
AC	221	221	0	272	+51
AD	179	170	–9	228	+49
ADS	182	171.5	–10.5	228	+46
AE[1)]	–	246	–	291	–
X	106	112	+6	182	+76
Y	109	115	+6	152	+43
XB	139	145	+6	182	+43
YB	109	115	+6	152	+43
LB	394	424	+30	465	+71
LB B9	–	–	–	–	–
LB LIA120	–	–	–	–	–
LB LIA160	402	440	+38	–	–
LB LIA200	390	429	+39	470	+80
LB LIA250	385	424	+39	465	+80
LB LIA300	380	419	+39	460	+80
LB LIA350	374	413	+39	454	+80
LB L08400	367	406	+39	447	+80
LB L08450	–	398	–	439	–
LB L08550	–	–	–	431	–
Delta LBS	80	112	+32	137	+57
LB FF	394	437	+43	460	+66
IEC D	38	38	0	38	0
IEC L	80	80	0	80	0
RZ D	22	22	0	22	0
H	132	132	0	160	+28
A	216	216	0	254	+38
B	140	178	+38	210	+70
D	89	89	0	108	+19
K	12	12	0	14.5	+2.5
AB	250	246	–4	289	+39
BB	170	208	+38	252	+82
C	36	31	–5	35	–1
V	104	107	+3	131	+27
VB	54	106	+52	131	+77
AD /IS	199	190.5	–8.5	–	–
X /IS	116	117	+1	–	–
Y /IS	116	117	+1	–	–
AD /IV	183	137	–46	228	+45
X /IV	106	112	+6	182	+76
Y /IV	109	115	+6	152	+43
ADS /IV	183	180.5	–2.5	228	+45
XB /IV	106	145	+39	182	+76
YB /IV	109	115	+6	152	+43
G /E	76	125	+49	79	+3
GB /E	76	120.5	+44.5	79	+3
GV /E+/V	143	183.5	+40.5	194	+51
GVB /E+/V	143	183.5	+40.5	194	+51

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.24 D(F)V132M4 ↔ DRS132M4, 7.5 kW, 50 Hz



3.24.1 Technical Data

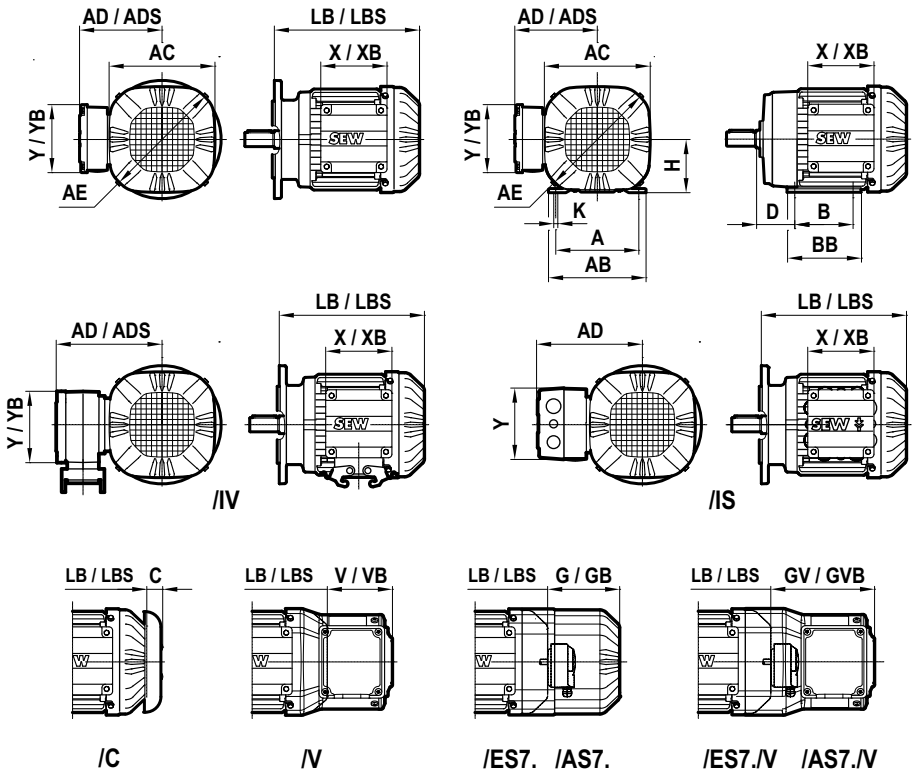
7.5 kW / 50 Hz	DV132M4	DRS132M4	
M_N[Nm]	50.1	49.5	–1.2%
n_N [rpm]	1430	1445	1.0%
M_A/M_N	2.1	2.4	14.3%
M_H/M_N	2	1.9	–5.0%
I_N [A]	15.5	14.4	–7.1%
I_A/I_N	6.2	6.6	6.5%
cos φ	0.85	0.85	0%
η 75% A [%]	89.5	89.1	–0.4%
η 100% A [%]	87.5	87.1	–0.5%
η 75% B [%]	89.5	90	0.6%
η 100% B [%]	87.5	88.5	1.1%
J_{Mot} [10^{-4} kgm²]	280	255	–8.9%
J_{BMot} [10^{-4} kgm²]	330	265	–19.7%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	780	555	–28.8%
m_{Mot} [kg]	66	60	–9.1%
m_{BMot} [kg]	90	75	–16.7%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1700	2000	17.6%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	70	75	7.1%

3.24.2 Dimensioning [mm]

7.5 kW / 50 Hz	DV132M4	DRS132M4	
AC	275	221	–54
AD	230	170	–60
ADS	230	171.5	–58.5
AE[1)]	–	246	–
X	182	112	–70
Y	152	115	–37
XB	182	145	–37
YB	152	115	–37
LB	402	424	+22
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	424	440	+16
LB LIA200	412	429	+17
LB LIA250	407	424	+17
LB LIA300	402	419	+17
LB LIA350	396	413	+17
LB L08400	389	406	+17
LB L08450	–	398	–
LB L08550	–	–	–
Delta LBS	112	112	0
LB FF	402	437	+35
IEC D	38	38	0
IEC L	80	80	0
RZ D	22	22	0
H	132	132	0
A	216	216	0
B	178	178	0
D	89	89	0
K	13	12	–1
AB	259	246	–13
BB	218	208	–10
C	37	31	–6
V	112	107	–5
VB	123	106	–17
AD /IS	–	190.5	–
X /IS	–	117	–
Y /IS	–	117	–
AD /IV	232	179	–53
X /IV	191	112	–79
Y /IV	161	115	–46
ADS /IV	232	180.5	–51.5
XB /IV	191	145	–46
YB /IV	161	115	–46
G /E	239	125	–114
GB /E	127	120.5	–6.5
GV /E+/V	339	183.5	–155.5
GVB /E+/V	227	183.5	–43.5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.25 D(F)V132M4 ↔ DRE132MC4, DRE160S4, 7.5 kW, 50 Hz



3.25.1 Technical data

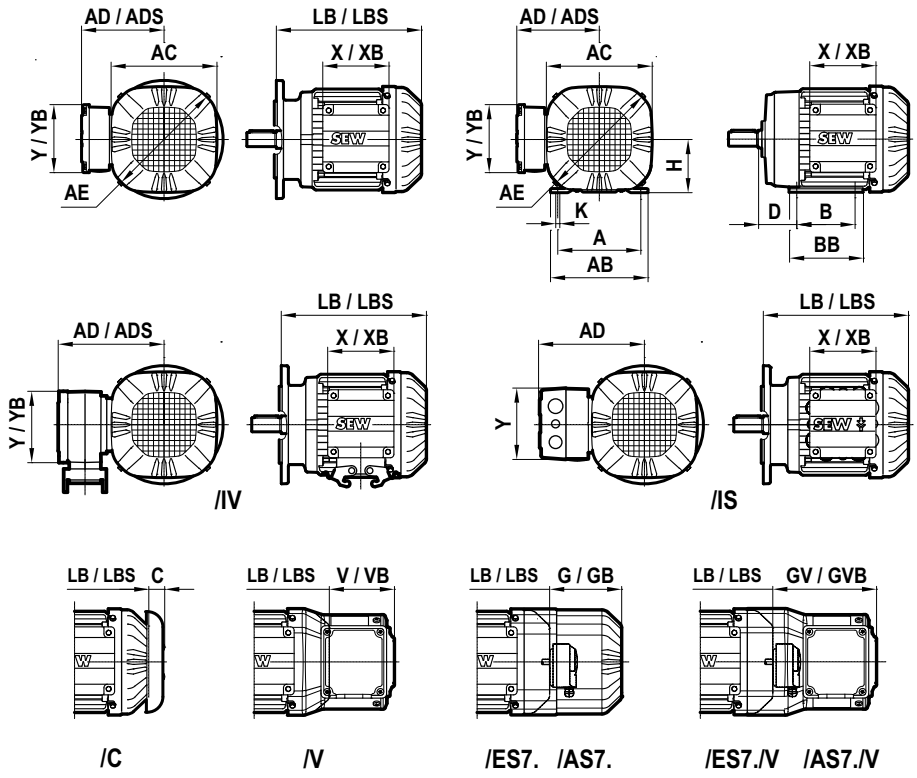
7.5 kW / 50 Hz	DV132M4	DRE132MC4		DRE160S4	
M_N[Nm]	50.1	48.5	–3.2%	49	–2.2%
n_N [rpm]	1430	1470	2.8%	1465	2.4%
M_A/M_N	2.1	2.2	4.8%	2.4	14.3%
M_H/M_N	2	1.8	–10.0%	1.8	–10.0%
I_N [A]	15.5	14.8	–4.5%	14.7	–5.2%
I_A/I_N	6.2	8.2	32.3%	6.5	4.8%
cos φ	0.85	0.82	–3.5%	0.82	–3.5%
η 75% A [%]	89.5	89.5	0%	90.3	0.9%
η 100% A [%]	87.5	89	1.7%	89.3	2.1%
η 75% B [%]	89.5	90.2	0.8%	91.0	1.7%
η 100% B [%]	87.5	90.1	3.0%	90.4	3.3%
J_{Mot} [10^{-4} kgm²]	280	340	21.4%	370	32.1%
J_{BMot} [10^{-4} kgm²]	330	355	7.6%	420	27.3%
J_{2BMot} [10^{-4} kgm²]	–	–	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	780	640	–17.9%	870	11.5%
m_{Mot} [kg]	66	63	–4.5%	74	12.1%
m_{BMot} [kg]	90	78	–13.3%	98	8.9%
m_{2BMot} [kg]	–	–	–	–	–
Z_{0BG} [1/h]	–	–	–	–	–
Z_{0BGE} [1/h]	1700	1500	–11.8%	1100	–35.3%
Z_{0BGE_2} [1/h]	–	–	–	–	–
S1 temp. [K]	70	65	–7.1%	70	0%

3.25.2 Dimensioning [mm]

7.5 kW / 50 Hz	DV132M4	DRE132MC4		DRE160S4	
AC	275	221	–54	272	–3
AD	230	170	–60	228	–2
ADS	230	171.5	–58.5	228	–2
AE[1)]	–	246	–	291	–
X	182	112	–70	182	0
Y	152	115	–37	152	0
XB	182	145	–37	182	0
YB	152	115	–37	152	0
LB	402	424	22	465	+63
LB B9	–	–	–	–	–
LB LIA120	–	–	–	–	–
LB LIA160	424	440	16	–	–
LB LIA200	412	429	17	470	+58
LB LIA250	407	424	17	465	+58
LB LIA300	402	419	17	460	+58
LB LIA350	396	413	17	454	+58
LB L08400	389	406	17	447	+58
LB L08450	–	398	–	439	–
LB L08550	–	–	–	431	–
Delta LBS	112	112	0	137	+25
LB FF	402	437	35	460	+58
IEC D	38	38	0	38	0
IEC L	80	80	0	80	0
RZ D	22	22	0	22	0
H	132	132	0	160	+28
A	216	216	0	254	+38
B	178	178	0	210	+32
D	89	89	0	108	+19
K	13	12	–1	14.5	+1.5
AB	259	246	–13	289	+30
BB	218	208	–10	252	+34
C	37	31	–6	35	–2
V	112	107	–5	131	+19
VB	123	106	–17	131	+8
AD /IS	–	190.5	–	–	–
X /IS	–	117	–	–	–
Y /IS	–	117	–	–	–
AD /IV	232	137	–95	228	–4
X /IV	191	112	–79	182	–9
Y /IV	161	115	–46	152	–9
ADS /IV	232	180.5	–51.5	228	–4
XB /IV	191	145	–46	182	–9
YB /IV	161	115	–46	152	–9
G /E	239	125	–114	79	–160
GB /E	127	120.5	–6.5	79	–48
GV /E+/V	339	183.5	–155.5	194	–145
GVB /E+/V	227	183.5	–43.5	194	–33

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.26 D(F)V132M4 ↔ DRP160M4, 7.5 kW, 50 Hz



3.26.1 Technical data

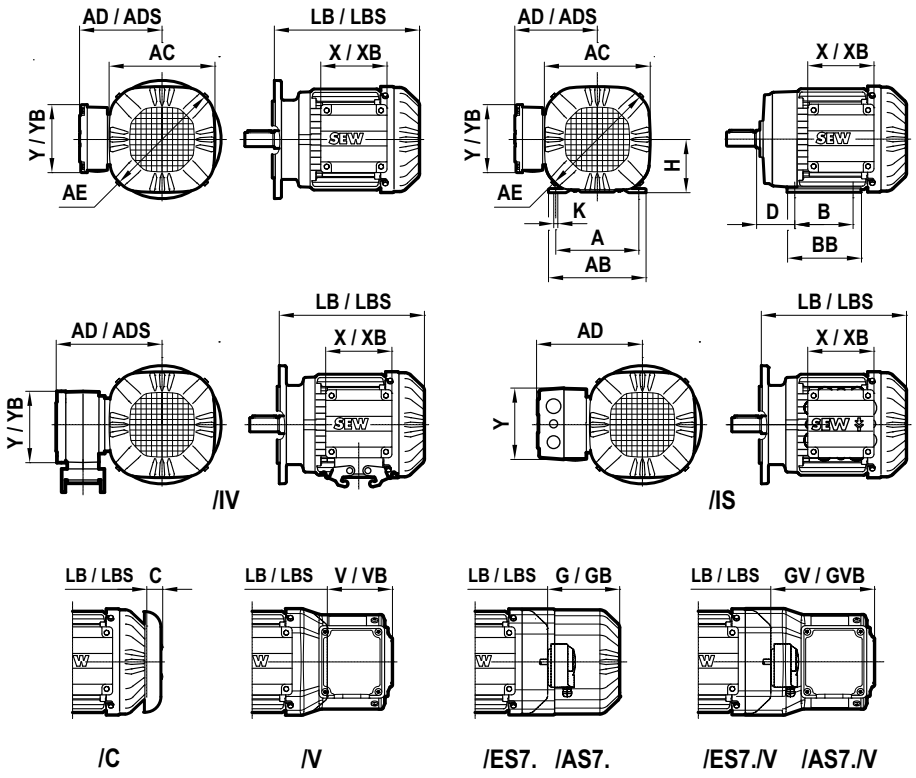
7.5 kW / 50 Hz	DV132M4	DRP160M4	
M_N[Nm]	50.1	48.5	–3.2%
n_N [rpm]	1430	1470	2.8%
M_A/M_N	2.1	3.1	47.6%
M_H/M_N	2	2.3	15.0%
I_N [A]	15.5	14.7	–5.2%
I_A/I_N	6.2	8.1	30.6%
cos φ	0.85	0.81	–4.7%
η 75% A [%]	89.5	91.3	2.0%
η 100% A [%]	87.5	90.7	3.7%
η 75% B [%]	89.5	91.3	2.0%
η 100% B [%]	87.5	90.7	3.7%
J_{Mot} [10^{-4} kgm²]	280	450	60.7%
J_{BMot} [10^{-4} kgm²]	330	470	42.4%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	780	950	21.8%
m_{Mot} [kg]	66	81	22.7%
m_{BMot} [kg]	90	100	11.1%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1700	1000	–41.2%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	70	40	–42.9%

3.26.2 Dimensioning [mm]

7.5 kW / 50 Hz	DV132M4	DRP160M4	
AC	275	272	–3
AD	230	228	–2
ADS	230	228	–2
AE[1)]	–	291	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	402	460	+58
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	424	–	–
LB LIA200	412	470	+58
LB LIA250	407	465	+58
LB LIA300	402	460	+58
LB LIA350	396	454	+58
LB L08400	389	447	+58
LB L08450	–	439	–
LB L08550	–	431	–
Delta LBS	112	137	+25
LB FF	402	460	+58
IEC D	38	38	0
IEC L	80	80	0
RZ D	22	22	0
H	132	160	+28
A	216	254	+38
B	178	210	+32
D	89	108	+19
K	13	14.5	+1.5
AB	259	289	+30
BB	218	252	+34
C	37	35	–2
V	112	131	+19
VB	123	131	+8
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	232	228	–4
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	232	228	–4
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	239	79	–160
GB /E	127	79	–48
GV /E+/V	339	194	–145
GVB /E+/V	227	194	–33

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.27 D(F)V132ML4 ↔ DRS132MC4, DRS160S4, 9.2 kW, 50 Hz



3.27.1 Technical data

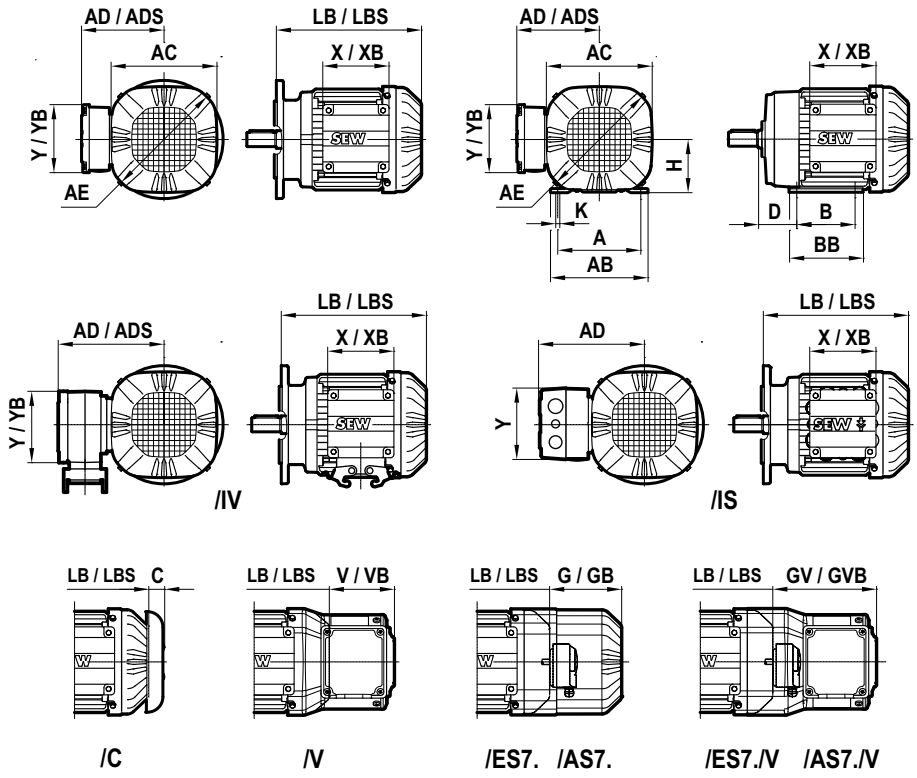
9.2 kW / 50 Hz	DV132ML4	DRS132MC4		DRS160S4	
M_N[Nm]	61	60	–1.6%	60	–1.6%
n_N [rpm]	1440	1465	1.7%	1460	1.4%
M_A/M_N	2.5	2.1	–16.0%	2.5	0%
M_H/M_N	2	1.6	–20.0%	2	0%
I_N [A]	18.7	18.6	–0.5%	18.9	1.1%
I_A/I_N	6	7.2	20.0%	6.4	6.7%
cos φ	0.84	0.81	–3.6%	0.79	–6.0%
η 75% A [%]	89.6	88.5	–1.2%	89.8	0.2%
η 100% A [%]	88	87.6	–0.5%	88.8	0.9%
η 75% B [%]	89.6	89.1	–0.6%	90.5	1.0%
η 100% B [%]	88	88.6	0.7%	89.9	2.2%
J_{Mot} [10^{-4} kgm²]	330	340	3.0%	370	12.1%
J_{BMot} [10^{-4} kgm²]	380	355	–6.6%	420	10.5%
J_{2BMot} [10^{-4} kgm²]	–	–	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	830	640	–22.9%	870	4.8%
m_{Mot} [kg]	75	63	–16.0%	74	–1.3%
m_{BMot} [kg]	100	78	–22.0%	98	–2.0%
m_{2BMot} [kg]	–	–	–	–	–
Z_{0BG} [1/h]	–	–	–	–	–
Z_{0BGE} [1/h]	1200	1500	25.0%	1100	–8.3%
Z_{0BGE_2} [1/h]	–	–	–	–	–
S1 temp. [K]	70	95	35.7%	80	14.3%

3.27.2 Dimensioning [mm]

9.2 kW / 50 Hz	DV132ML4	DRS132MC4		DRS160S4	
AC	275	221	–54	272	–3
AD	230	170	–60	228	–2
ADS	230	171.5	–58.5	228	–2
AE[1)]	–	246	–	291	–
X	182	112	–70	182	0
Y	152	115	–37	152	0
XB	182	145	–37	182	0
YB	152	115	–37	152	0
LB	462	424	–38	465	+3
LB B9	–	–	–	–	–
LB LIA120	–	–	–	–	–
LB LIA160	–	440	–	–	–
LB LIA200	472	429	–43	470	–2
LB LIA250	467	424	–43	465	–2
LB LIA300	462	419	–43	460	–2
LB LIA350	456	413	–43	454	–2
LB L08400	449	406	–43	447	–2
LB L08450	441	398	–43	439	–2
LB L08550	–	–	–	431	–
Delta LBS	112	112	0	137	+25
LB FF	462	437	–25	460	–2
IEC D	38	38	0	38	0
IEC L	80	80	0	80	0
RZ D	28	28	0	28	0
H	160	132	–28	160	0
A	254	216	–38	254	0
B	210	178	–32	210	0
D	108	89	–19	108	0
K	14.5	12	–2.5	14.5	0
AB	289	246	–43	289	0
BB	252	208	–44	252	0
C	37	31	–6	35	–2
V	112	107	–5	131	+19
VB	123	106	–17	131	+8
AD /IS	–	190.5	–	–	–
X /IS	–	117	–	–	–
Y /IS	–	117	–	–	–
AD /IV	232	137	–95	228	–4
X /IV	191	112	–79	182	–9
Y /IV	161	115	–46	152	–9
ADS /IV	232	180.5	–51.5	228	–4
XB /IV	191	145	–46	182	–9
YB /IV	161	115	–46	152	–9
G /E	239	125	–114	79	–160
GB /E	127	120.5	–6.5	79	–48
GV /E+/V	339	183.5	–155.5	194	–145
GVB /E+/V	227	183.5	–43.5	194	–33

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.28 D(F)V132ML4 ↔ DRE160M4, 9.2 kW, 50 Hz



3.28.1 Technical data

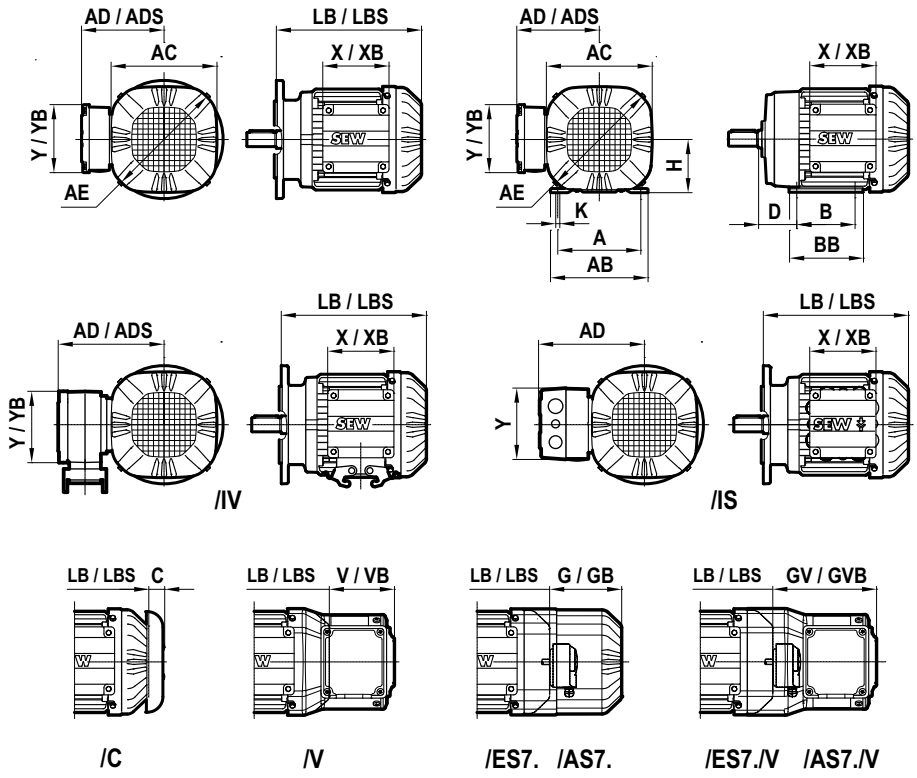
9.2 kW / 50 Hz	DV132ML4	DRE160M4	
M_N[Nm]	61	60	–1.6%
n_N [rpm]	1440	1470	2.1%
M_A/M_N	2.5	2.9	16.0%
M_H/M_N	2	2.2	10.0%
I_N [A]	18.7	18.3	–2.1%
I_A/I_N	6	7.7	28.3%
cos φ	0.84	0.8	–4.8%
η 75% A [%]	89.6	91.2	1.8%
η 100% A [%]	88	90.5	2.8%
η 75% B [%]	89.6	91.8	2.5%
η 100% B [%]	88	91.5	4.0%
J_{Mot} [10^{-4} kgm²]	330	450	36.4%
J_{BMot} [10^{-4} kgm²]	380	500	31.6%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	830	950	14.5%
m_{Mot} [kg]	75	92	22.7%
m_{BMot} [kg]	100	108	8.0%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1200	1000	–16.7%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	70	50	–28.6%

3.28.2 Dimensioning [mm]

9.2 kW / 50 Hz	DV132ML4	DRE160M4	
AC	275	272	–3
AD	230	228	–2
ADS	230	228	–2
AE[1)]	–	291	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	462	460	–2
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	472	470	–2
LB LIA250	467	465	–2
LB LIA300	462	460	–2
LB LIA350	456	454	–2
LB L08400	449	447	–2
LB L08450	441	439	–2
LB L08550	–	431	–
Delta LBS	112	137	+25
LB FF	462	460	–2
IEC D	38	38	0
IEC L	80	80	0
RZ D	28	28	0
H	160	160	0
A	254	254	0
B	210	210	0
D	108	108	0
K	14.5	14.5	0
AB	289	289	0
BB	252	252	0
C	37	35	–2
V	112	131	+19
VB	123	131	+8
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	232	228	–4
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	232	228	–4
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	239	79	–160
GB /E	127	79	–48
GV /E+/V	339	194	–145
GVB /E+/V	227	194	–33

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.29 D(F)V132ML4 ↔ DRP160MC4, 9.2 kW, 50 Hz



3.29.1 Technical data

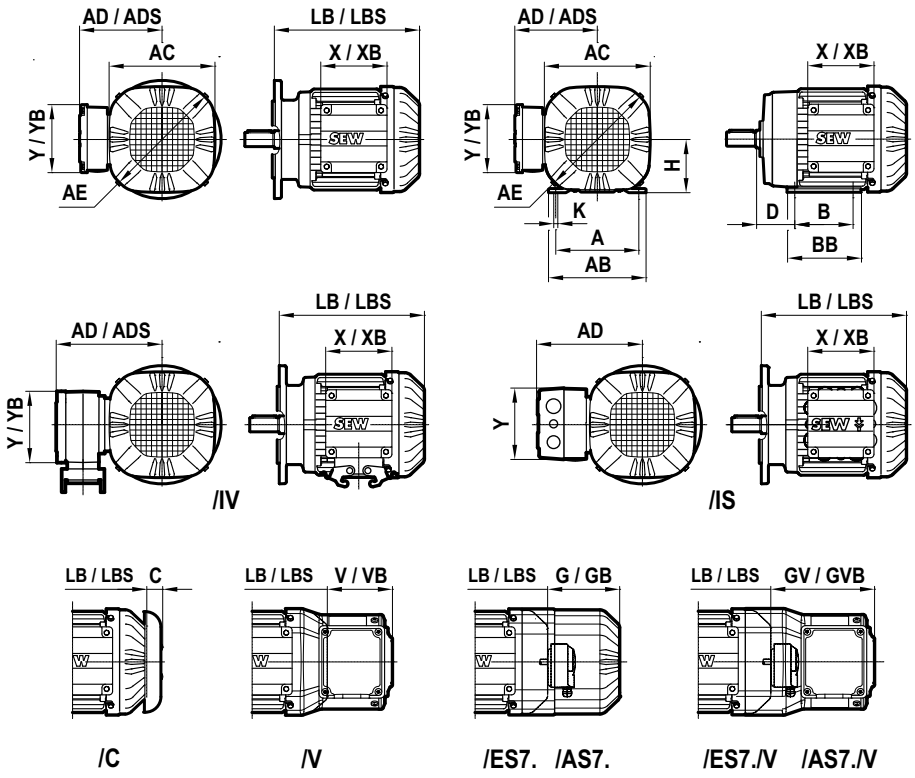
9.2 kW / 50 Hz	DV132ML4	DRP160MC4	
M_N[Nm]	61	60	–1.6%
n_N [rpm]	1440	1475	2.4%
M_A/M_N	2.5	2.5	0%
M_H/M_N	2	1.8	–10.0%
I_N [A]	18.7	17.5	–6.4%
I_A/I_N	6	7.6	26.7%
cos φ	0.84	0.84	0%
η 75% A [%]	89.6	92	2.7%
η 100% A [%]	88	91.3	3.8%
η 75% B [%]	89.6	92	2.7%
η 100% B [%]	88	91.3	3.8%
J_{Mot} [10^{-4} kgm²]	330	590	78.8%
J_{BMot} [10^{-4} kgm²]	380	640	68.4%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	830	1090	31.3%
m_{Mot} [kg]	75	86	14.7%
m_{BMot} [kg]	100	113	13.0%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1200	900	–25.0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	70	50	–28.6%

3.29.2 Dimensioning [mm]

9.2 kW / 50 Hz	DV132ML4	DRP160MC4	
AC	275	272	–3
AD	230	228	–2
ADS	230	228	–2
AE[1)]	–	291	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	462	460	–2
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	472	470	–2
LB LIA250	467	465	–2
LB LIA300	462	460	–2
LB LIA350	456	454	–2
LB L08400	449	447	–2
LB L08450	441	439	–2
LB L08550	–	431	–
Delta LBS	112	137	+25
LB FF	462	460	–2
IEC D	38	38	0
IEC L	80	80	0
RZ D	28	28	0
H	160	160	0
A	254	254	0
B	210	210	0
D	108	108	0
K	14.5	14.5	0
AB	289	289	0
BB	252	252	0
C	37	35	–2
V	112	131	+19
VB	123	131	+8
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	232	228	–4
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	232	228	–4
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	239	79	–160
GB /E	127	79	–48
GV /E+/V	339	194	–145
GVB /E+/V	227	194	–33

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.30 D(F)V160M4 ↔ DRS160M4, 11 kW, 50 Hz



3.30.1 Technical data

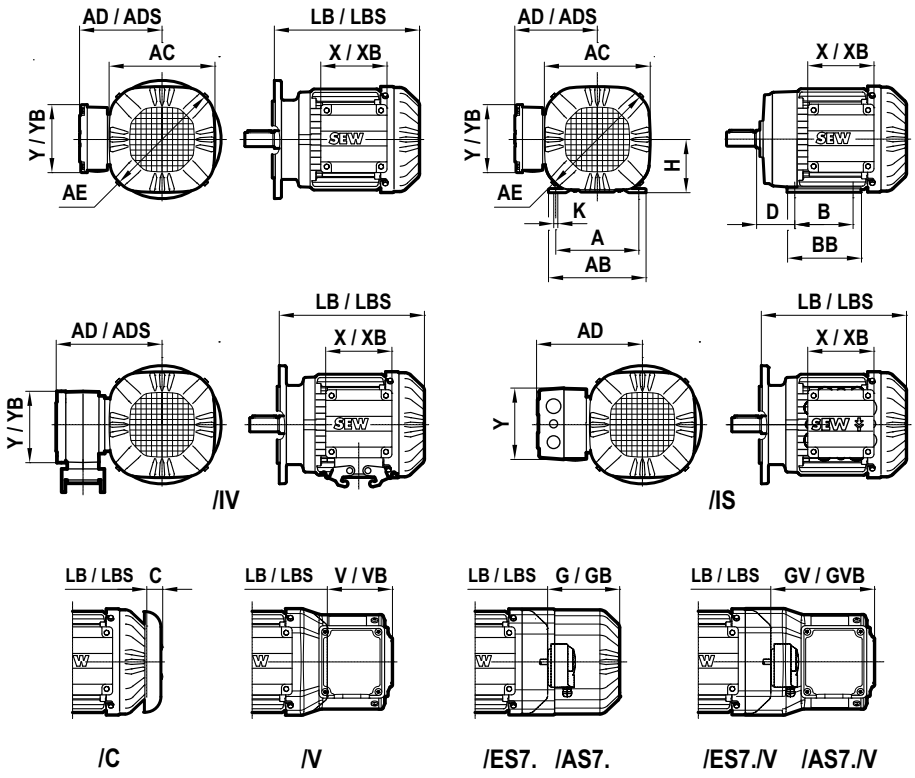
11 kW / 50 Hz	DV160M4	DRS160M4	
M_N[Nm]	72.9	72	–1.2%
n_N [rpm]	1440	1460	1.4%
M_A/M_N	2.5	2.7	8.0%
M_H/M_N	2.3	2.3	0%
I_N [A]	22.5	22	–2.2%
I_A/I_N	6	6.8	13.3%
cos φ	0.83	0.81	–2.4%
η 75% A [%]	88.9	90.5	1.8%
η 100% A [%]	88.5	89.4	1.0%
η 75% B [%]	88.9	91.4	2.8%
η 100% B [%]	88.5	90.7	2.5%
J_{Mot} [10^{-4} kgm²]	398	450	13.1%
J_{BMot} [10^{-4} kgm²]	448	500	11.6%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	898	950	5.8%
m_{Mot} [kg]	84	92	9.5%
m_{BMot} [kg]	109	108	–0.9%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1200	1000	–16.7%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	75	65	–13.3%

3.30.2 Dimensioning [mm]

11 kW / 50 Hz	DV160M4	DRS160M4	
AC	275	272	–3
AD	230	228	–2
ADS	230	228	–2
AE[1)]	–	291	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	462	460	–2
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	472	470	–2
LB LIA250	467	465	–2
LB LIA300	462	460	–2
LB LIA350	456	454	–2
LB L08400	449	447	–2
LB L08450	441	439	–2
LB L08550	433	431	–2
Delta LBS	112	137	+25
LB FF	462	460	–2
IEC D	42	42	0
IEC L	110	110	0
RZ D	28	28	0
H	160	160	0
A	254	254	0
B	210	210	0
D	108	108	0
K	14.5	14.5	0
AB	289	289	0
BB	252	252	0
C	37	35	–2
V	112	131	+19
VB	123	131	+8
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	232	228	–4
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	232	228	–4
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	239	79	–160
GB /E	127	79	–48
GV /E+/V	339	194	–145
GVB /E+/V	227	194	–33

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.31 D(F)V160M4 ↔ DRE160MC4, DRE180S4, 11 kW, 50 Hz



3.31.1 Technical data

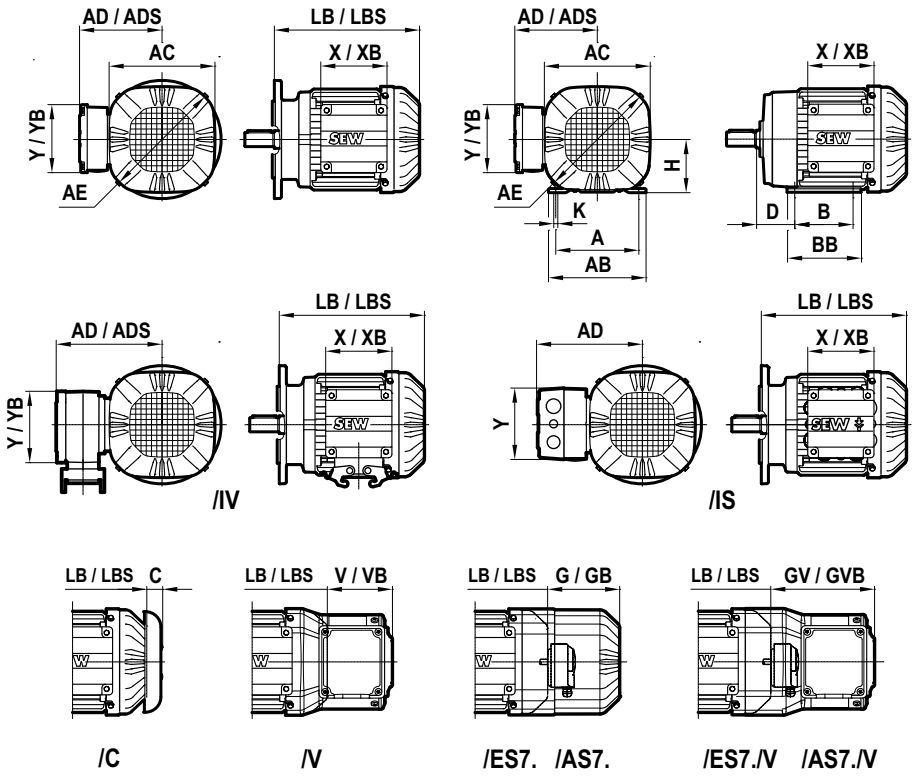
11 kW / 50 Hz	DV160M4	DRE160MC4		DRE180S4	
M_N[Nm]	72.9	71	–2.6%	71	–2.6%
n_N [rpm]	1440	1475	2.4%	1470	2.1%
M_A/M_N	2.5	2.6	4.0%	2.6	4.0%
M_H/M_N	2.3	1.9	–17.4%	2.2	–4.3%
I_N [A]	22.5	21.5	–4.4%	21	–6.7%
I_A/I_N	6	7.7	28.3%	7.2	20.0%
cos φ	0.83	0.8	–3.6%	0.83	0%
η 75% A [%]	88.9	91.6	3.0%	91.4	2.8%
η 100% A [%]	88.5	91	2.8%	91.2	3.1%
η 75% B [%]	88.9	92.1	3.6%	91.8	3.3%
η 100% B [%]	88.5	91.7	3.6%	91.8	3.7%
J_{Mot} [10^{-4} kgm²]	398	590	48.2%	900	126.1%
J_{BMot} [10^{-4} kgm²]	448	640	42.9%	960	114.3%
J_{2BMot} [10^{-4} kgm²]	–	–	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	898	1090	21.4%	–	–
m_{Mot} [kg]	84	94	11.9%	122	45.2%
m_{BMot} [kg]	109	120	10.1%	154	41.3%
m_{2BMot} [kg]	–	–	–	–	–
Z_{0BG} [1/h]	–	–	–	–	–
Z_{0BGE} [1/h]	1200	900	–25.0%	900	–25.0%
Z_{0BGE_2} [1/h]	–	–	–	–	–
S1 temp. [K]	75	65	–13.3%	70	–6.7%

3.31.2 Dimensioning [mm]

11 kW / 50 Hz	DV160M4	DRE160MC4		DRE180S4	
AC	275	272	–3	317	+42
AD	230	228	–2	253	+23
ADS	230	228	–2	253	+23
AE[1)]	–	291	–	359	–
X	182	182	0	182	0
Y	152	152	0	152	0
XB	182	182	0	182	0
YB	152	152	0	152	0
LB	462	460	–2	529.5	+67.5
LB B9	–	–	–	–	–
LB LIA120	–	–	–	–	–
LB LIA160	–	–	–	–	–
LB LIA200	472	470	–2	–	–
LB LIA250	467	465	–2	534.5	+67.5
LB LIA300	462	460	–2	529.5	+67.5
LB LIA350	456	454	–2	523.5	+67.5
LB L08400	449	447	–2	516.5	+67.5
LB L08450	441	439	–2	508.5	+67.5
LB L08550	433	431	–2	500.5	+67.5
Delta LBS	112	137	+25	199	+87
LB FF	462	460	–2	523.5	+61.5
IEC D	42	42	0	42	0
IEC L	110	110	0	110	0
RZ D	28	28	0	28	0
H	160	160	0	160	0
A	254	254	0	254	0
B	210	210	0	254	+44
D	108	108	0	108	0
K	14.5	14.5	0	14.5	0
AB	289	289	0	308	+19
BB	252	252	0	294	+42
C	37	35	–2	35	–2
V	112	131	+19	180	+68
VB	123	131	+8	180	+57
AD /IS	–	–	–	–	–
X /IS	–	–	–	–	–
Y /IS	–	–	–	–	–
AD /IV	232	228	–4	253	+21
X /IV	191	182	–9	182	–9
Y /IV	161	152	–9	152	–9
ADS /IV	232	228	–4	253	+21
XB /IV	191	182	–9	182	–9
YB /IV	161	152	–9	152	–9
G /E	239	79	–160	79	–160
GB /E	127	79	–48	79	–48
GV /E+/V	339	194	–145	240	–99
GVB /E+/V	227	194	–33	240	+13

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.32 D(F)V160M4 ↔ DRP180M4, 11 kW, 50 Hz



3.32.1 Technical data

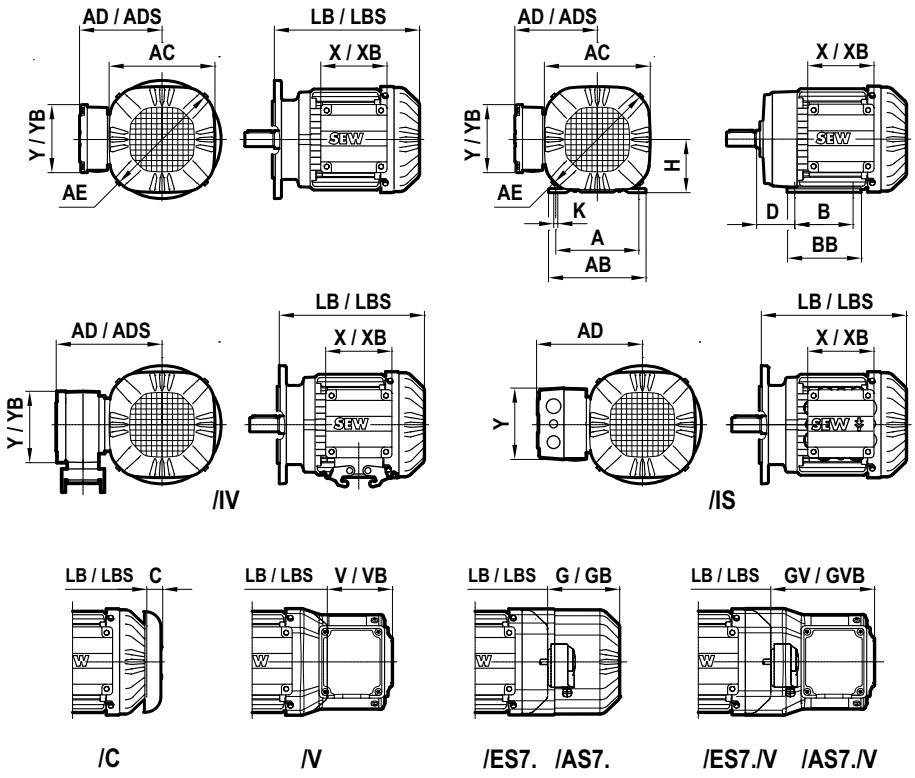
11 kW / 50 Hz	DV160M4	DRP180M4	
M_N[Nm]	72.9	71	–2.6%
n_N [rpm]	1440	1475	2.4%
M_A/M_N	2.5	2.9	16.0%
M_H/M_N	2.3	2.2	–4.3%
I_N [A]	22.5	20.5	–8.9%
I_A/I_N	6	8.1	35.0%
cos φ	0.83	0.84	1.2%
η 75% A [%]	88.9	92.5	4.0%
η 100% A [%]	88.5	92	4.0%
η 75% B [%]	88.9	92.5	4.0%
η 100% B [%]	88.5	92	4.0%
J_{Mot} [10^{-4} kgm²]	398	1110	178.9%
J_{BMot} [10^{-4} kgm²]	448	1170	161.2%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	898	–	–
m_{Mot} [kg]	84	139	65.5%
m_{BMot} [kg]	109	171	56.9%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1200	800	–33.3%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	75	40	–46.7%

3.32.2 Dimensioning [mm]

11 kW / 50 Hz	DV160M4	DRP180M4	
AC	275	317	+42
AD	230	253	+23
ADS	230	253	+23
AE[1)]	–	359	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	462	523.5	+61.5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	472	–	–
LB LIA250	467	534.5	+67.5
LB LIA300	462	529.5	+67.5
LB LIA350	456	523.5	+67.5
LB L08400	449	516.5	+67.5
LB L08450	441	508.5	+67.5
LB L08550	433	500.5	+67.5
Delta LBS	112	199	+87
LB FF	462	523.5	+61.5
IEC D	42	42	0
IEC L	110	110	0
RZ D	28	28	0
H	160	160	0
A	254	254	0
B	210	254	+44
D	108	108	0
K	14.5	14.5	0
AB	289	308	+19
BB	252	294	+42
C	37	35	–2
V	112	180	+68
VB	123	180	+57
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	232	253	+21
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	232	253	+21
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	239	79	–160
GB /E	127	79	–48
GV /E+/V	339	240	–99
GVB /E+/V	227	240	+13

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.33 D(F)V160L4 ↔ DRS160MC4, DRS180S4, 15 kW, 50 Hz



3.33.1 Technical data

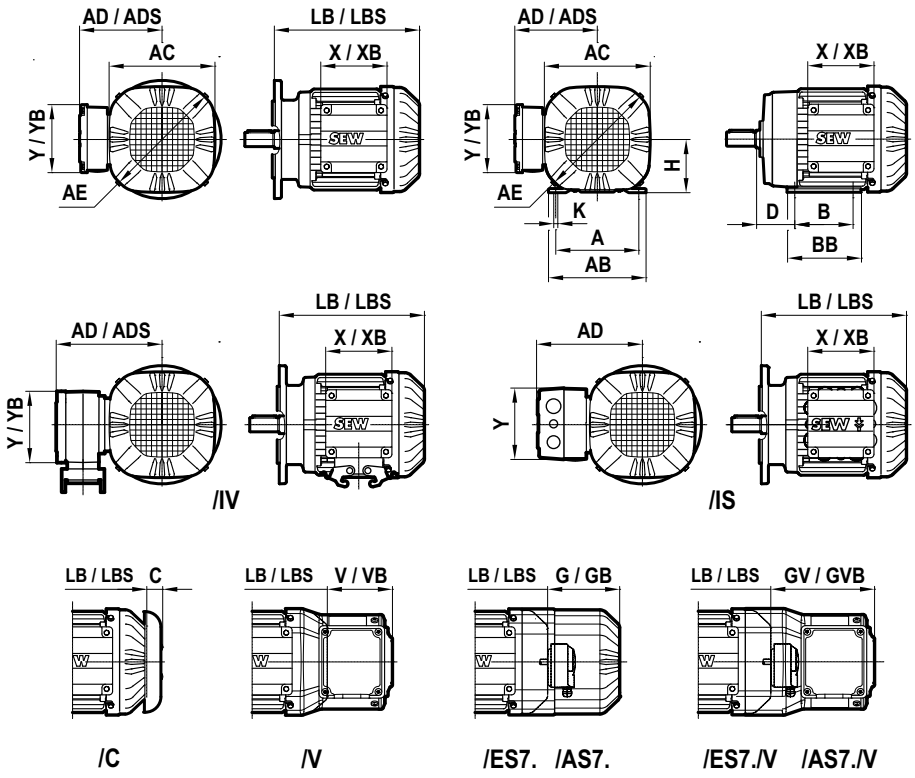
15 kW / 50 Hz	DV160L4	DRS160MC4		DRS180S4	
M_N[Nm]	98.1	97	–1.1%	98	–0.1%
n_N [rpm]	1460	1470	0.7%	1460	0%
M_A/M_N	2.4	2.1	–12.5%	2.3	–4.2%
M_H/M_N	1.8	1.7	–5.6%	2	11.1%
I_N [A]	31	30	–3.2%	29	–6.5%
I_A/I_N	5.5	6.3	14.5%	6.2	12.7%
cos φ	0.82	0.8	–2.4%	0.83	1.2%
η 75% A [%]	90.3	90.2	–0.1%	91.1	0.9%
η 100% A [%]	90	89.1	–1.0%	90.3	0.3%
η 75% B [%]	90.3	90.8	0.6%	91.6	1.4%
η 100% B [%]	90	90.1	0.1%	91.1	1.2%
J_{Mot} [10^{-4} kgm²]	925	590	–36.2%	900	–2.7%
J_{BMot} [10^{-4} kgm²]	1060	640	–39.6%	960	–9.4%
J_{2BMot} [10^{-4} kgm²]	–	–	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	1090	–	–	–
m_{Mot} [kg]	124	94	–24.2%	122	–1.6%
m_{BMot} [kg]	166	120	–27.7%	154	–7.2%
m_{2BMot} [kg]	–	–	–	–	–
Z_{0BG} [1/h]	–	–	–	–	–
Z_{0BGE} [1/h]	1000	900	–10.0%	900	–10.0%
Z_{0BGE_2} [1/h]	–	–	–	–	–
S1 temp. [K]	80	95	18.8%	60	–25.0%

3.33.2 Dimensioning [mm]

15 kW / 50 Hz	DV160L4	DRS160MC4		DRS180S4	
AC	331	272	–59	317	–14
AD	258	228	–30	253	–5
ADS	258	228	–30	253	–5
AE[1)]	–	291	–	359	–
X	182	182	0	182	0
Y	152	152	0	152	0
XB	182	182	0	182	0
YB	152	152	0	152	0
LB	503	460	–43	529.5	+26.5
LB B9	–	–	–	–	–
LB LIA120	–	–	–	–	–
LB LIA160	–	–	–	–	–
LB LIA200	–	470	–	–	–
LB LIA250	514	465	–49	534.5	+20.5
LB LIA300	509	460	–49	529.5	+20.5
LB LIA350	503	454	–49	523.5	+20.5
LB L08400	496	447	–49	516.5	+20.5
LB L08450	488	439	–49	508.5	+20.5
LB L08550	480	431	–49	500.5	+20.5
Delta LBS	156	137	–19	199	+43
LB FF	503	460	–43	523.5	+20.5
IEC D	42	42	0	42	0
IEC L	110	110	0	110	0
RZ D	28	28	0	28	0
H	160	160	0	160	0
A	254	254	0	254	0
B	254	210	–44	254	0
D	108	108	0	108	0
K	14.5	14.5	0	14.5	0
AB	308	289	–19	308	0
BB	294	252	–42	294	0
C	40	35	–5	35	–5
V	156	131	–25	180	+24
VB	152	131	–21	180	+28
AD /IS	–	–	–	–	–
X /IS	–	–	–	–	–
Y /IS	–	–	–	–	–
AD /IV	259	228	–31	253	–6
X /IV	191	182	–9	182	–9
Y /IV	161	152	–9	152	–9
ADS /IV	259	228	–31	253	–6
XB /IV	191	182	–9	182	–9
YB /IV	161	152	–9	152	–9
G /E	280	79	–201	79	–201
GB /E	124	79	–45	79	–45
GV /E+/V	405	194	–211	240	–165
GVB /E+/V	249	194	–55	240	–9

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.34 D(F)V160L4 ↔ DRE180M4, 15 kW, 50 Hz



3.34.1 Technical data

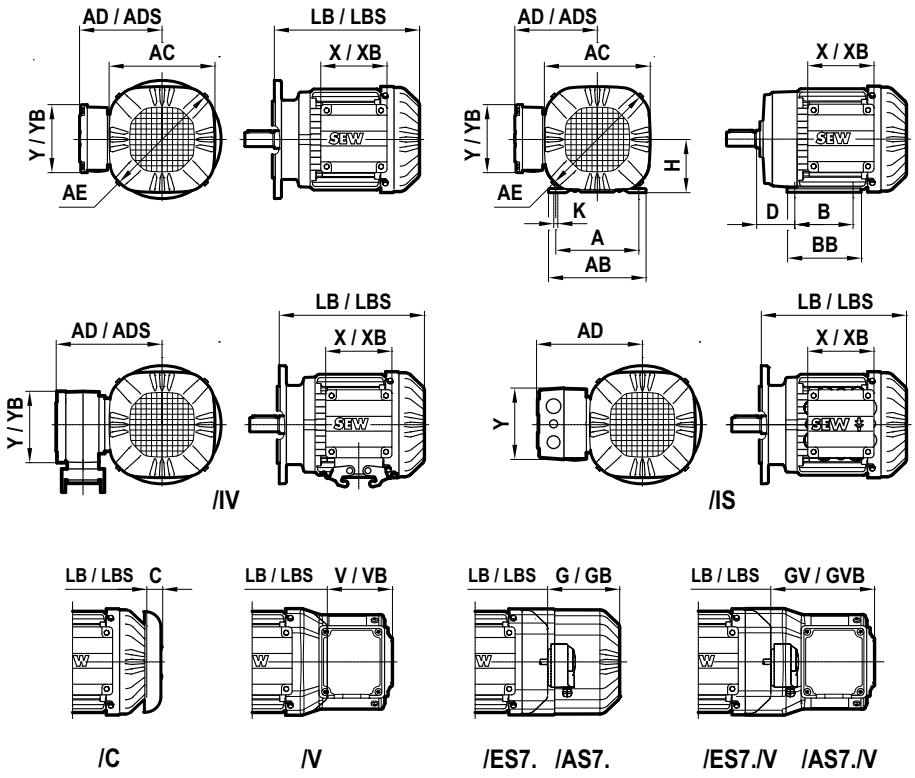
15 kW / 50 Hz	DV160L4	DRE180M4	
M_N[Nm]	98.1	97	–1.1%
n_N [rpm]	1460	1470	0.7%
M_A/M_N	2.4	2.4	0%
M_H/M_N	1.8	2	11.1%
I_N [A]	31	28	–9.7%
I_A/I_N	5.5	7.1	29.1%
cos φ	0.82	0.85	3.7%
η 75% A [%]	90.3	92.1	2.0%
η 100% A [%]	90	91.6	1.8%
η 75% B [%]	90.3	92.5	2.4%
η 100% B [%]	90	92.3	2.6%
J_{Mot} [10^{-4} kgm²]	925	1110	20.0%
J_{BMot} [10^{-4} kgm²]	1060	1250	17.9%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	124	141	13.7%
m_{BMot} [kg]	166	181	9.0%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1000	800	–20.0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	80	70	–12.5%

3.34.2 Dimensioning [mm]

15 kW / 50 Hz	DV160L4	DRE180M4	
AC	331	317	–14
AD	258	253	–5
ADS	258	253	–5
AE[1)]	–	359	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	503	523.5	+20.5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	514	534.5	+20.5
LB LIA300	509	529.5	+20.5
LB LIA350	503	523.5	+20.5
LB L08400	496	516.5	+20.5
LB L08450	488	508.5	+20.5
LB L08550	480	500.5	+20.5
Delta LBS	156	199	+43
LB FF	503	523.5	+20.5
IEC D	42	42	0
IEC L	110	110	0
RZ D	28	28	0
H	160	160	0
A	254	254	0
B	254	254	0
D	108	108	0
K	14.5	14.5	0
AB	308	308	0
BB	294	294	0
C	40	35	–5
V	156	180	+24
VB	152	180	+28
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	259	253	–6
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	259	253	–6
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	280	79	–201
GB /E	124	79	–45
GV /E+/V	405	240	–165
GVB /E+/V	249	240	–9

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.35 D(F)V160L4 ↔ DRP180L4, 15 kW, 50 Hz



3.35.1 Technical data

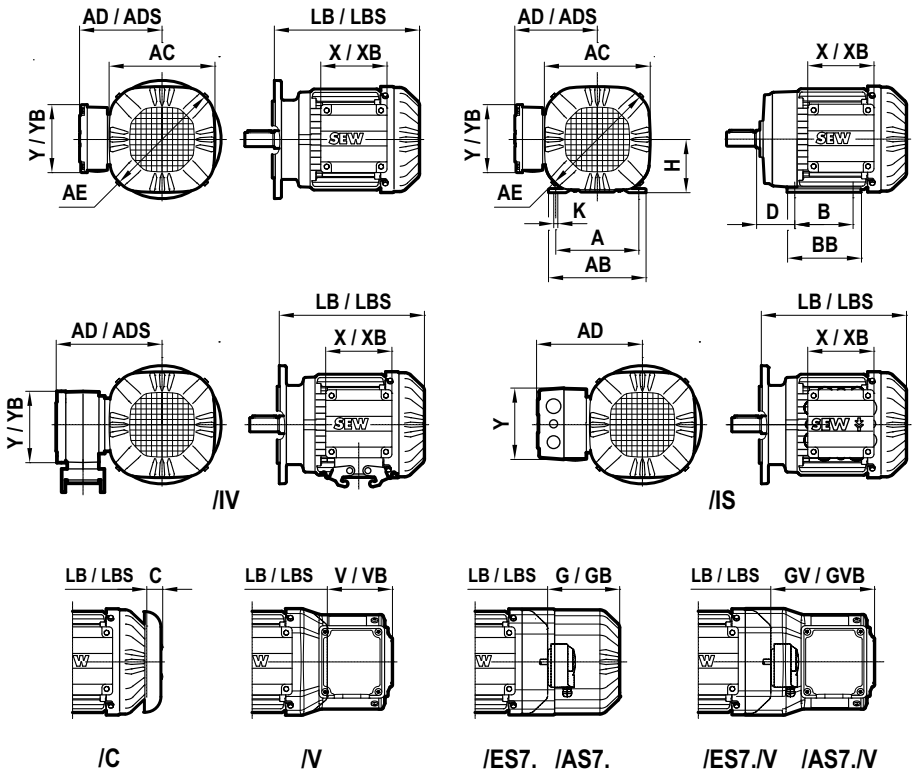
15 kW / 50 Hz	DV160L4	DRP180L4	
M_N[Nm]	98.1	97	–1.1%
n_N [rpm]	1460	1475	1.0%
M_A/M_N	2.4	2.7	12.5%
M_H/M_N	1.8	2	11.1%
I_N [A]	31	27.5	–11.3%
I_A/I_N	5.5	7.7	40.0%
cos φ	0.82	0.84	2.4%
η 75% A [%]	90.3	93.1	3.1%
η 100% A [%]	90	92.7	3.0%
η 75% B [%]	90.3	93.1	3.1%
η 100% B [%]	90	92.7	3.0%
J_{Mot} [10^{-4} kgm²]	925	1300	40.5%
J_{BMot} [10^{-4} kgm²]	1060	1360	28.3%
J_{2BMot} [10^{-4} kgm²]	–	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	124	161	29.8%
m_{BMot} [kg]	166	193	16.3%
m_{2BMot} [kg]	–	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1000	590	–41.0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	80	40	–50.0%

3.35.2 Dimensioning [mm]

15 kW / 50 Hz	DV160L4	DRP180L4	
AC	331	317	–14
AD	258	253	–5
ADS	258	253	–5
AE[1)]	–	359	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	503	583.5	+80.5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	514	594.5	+80.5
LB LIA300	509	589.5	+80.5
LB LIA350	503	583.5	+80.5
LB L08400	496	576.5	+80.5
LB L08450	488	568.5	+80.5
LB L08550	480	560.5	+80.5
Delta LBS	156	199	+43
LB FF	503	583.5	+80.5
IEC D	42	42	0
IEC L	110	110	0
RZ D	28	28	0
H	160	160	0
A	254	254	0
B	254	254	0
D	108	108	0
K	14.5	14.5	0
AB	308	308	0
BB	294	294	0
C	40	35	–5
V	156	180	+24
VB	152	180	+28
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	259	253	–6
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	259	253	–6
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	280	79	–201
GB /E	124	79	–45
GV /E+/V	405	240	–165
GVB /E+/V	249	240	–9

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.36 D(F)V180M4 ↔ DRS180M4, 18.5 kW, 50 Hz



3.36.1 Technical data

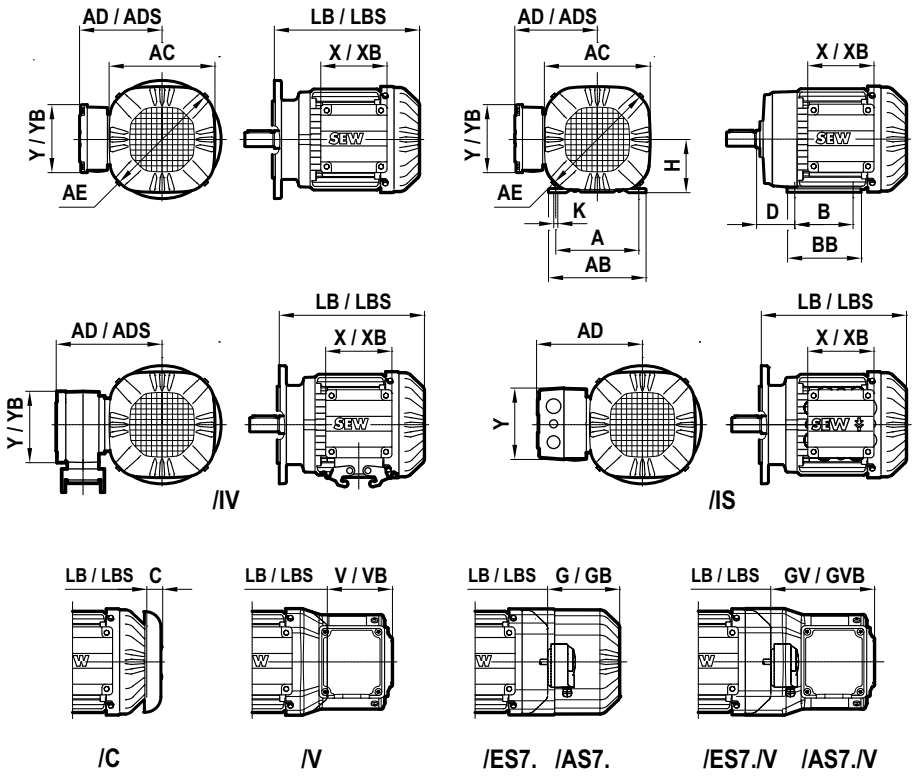
18.5 kW / 50 Hz	DV180M4	DRS180M4	
M_N[Nm]	121	121	0%
n_N [rpm]	1465	1465	0%
M_A/M_N	2.6	2.2	–15.4%
M_H/M_N	2	1.8	–10.0%
I_N [A]	38.5	34.5	–10.4%
I_A/I_N	5.9	6.5	10.2%
cos φ	0.8	0.85	6.3%
η 75% A [%]	90.8	92	1.3%
η 100% A [%]	90	91.2	1.3%
η 75% B [%]	90.8	92.4	1.8%
η 100% B [%]	90	92	2.2%
J_{Mot} [10^{-4} kgm²]	1120	1110	–0.9%
J_{BMot} [10^{-4} kgm²]	1255	1250	–0.4%
J_{2BMot} [10^{-4} kgm²]	1350	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	147	141	–4.1%
m_{BMot} [kg]	188	181	–3.7%
m_{2BMot} [kg]	192	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1300	800	–38.5%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	60	–

3.36.2 Dimensioning [mm]

18.5 kW / 50 Hz	DV180M4	DRS180M4	
AC	331	317	–14
AD	258	253	–5
ADS	258	253	–5
AE[1)]	–	359	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	575	523.5	–51.5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	586	534.5	–51.5
LB LIA300	581	529.5	–51.5
LB LIA350	575	523.5	–51.5
LB L08400	568	516.5	–51.5
LB L08450	560	508.5	–51.5
LB L08550	552	500.5	–51.5
Delta LBS	156	199	+43
LB FF	575	523.5	–51.5
IEC D	48	48	0
IEC L	110	110	0
RZ D	32	32	0
H	180	180	0
A	279	279	0
B	279	279	0
D	121	121	0
K	14.5	14.5	0
AB	320	320	0
BB	319	319	0
C	40	35	–5
V	156	180	+24
VB	152	180	+28
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	259	253	–6
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	259	253	–6
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	280	79	–201
GB /E	124	79	–45
GV /E+/V	405	240	–165
GVB /E+/V	249	240	–9

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.37 D(F)V180M4 ↔ DRE180L4, 18.5 kW, 50 Hz



3.37.1 Technical data

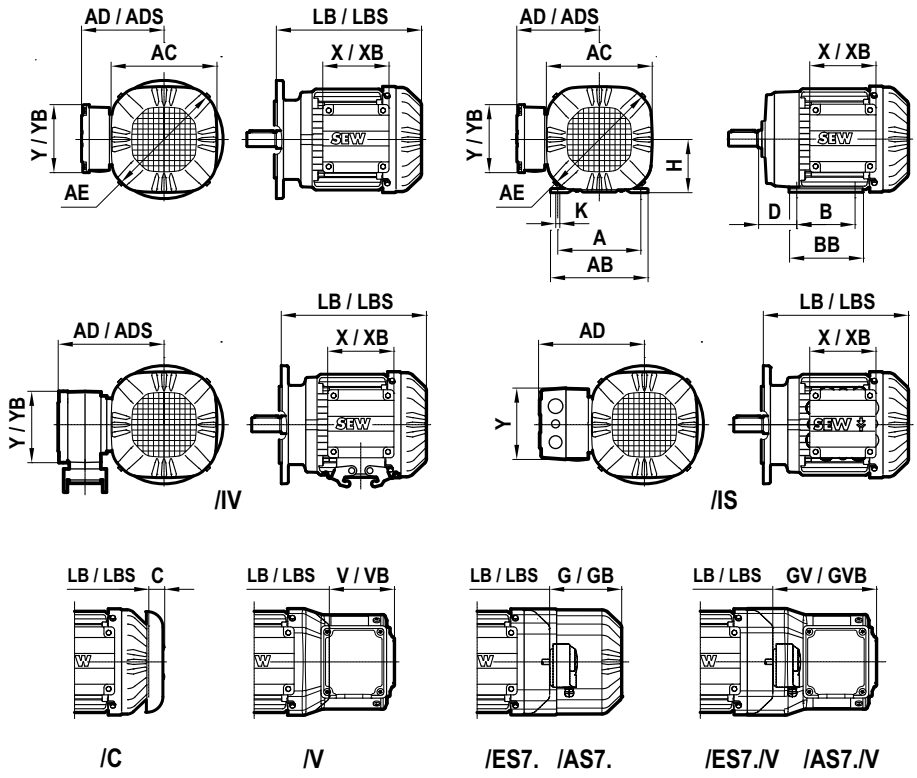
18.5 kW / 50 Hz	DV180M4	DRE180L4	
M_N[Nm]	121	120	–0.8%
n_N [rpm]	1465	1470	0.3%
M_A/M_N	2.6	2.5	–3.8%
M_H/M_N	2	2.1	5.0%
I_N [A]	38.5	34	–11.7%
I_A/I_N	5.9	7.1	20.3%
cos φ	0.8	0.85	6.3%
η 75% A [%]	90.8	92.5	1.9%
η 100% A [%]	90	92.1	2.3%
η 75% B [%]	90.8	92.7	2.1%
η 100% B [%]	90	92.6	2.9%
J_{Mot} [10^{-4} kgm²]	1120	1300	16.1%
J_{BMot} [10^{-4} kgm²]	1255	1440	14.7%
J_{2BMot} [10^{-4} kgm²]	1350	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	147	152	3.4%
m_{BMot} [kg]	188	192	2.1%
m_{2BMot} [kg]	192	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1300	590	–54.6%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	70	–

3.37.2 Dimensioning [mm]

18.5 kW / 50 Hz	DV180M4	DRE180L4	
AC	331	317	–14
AD	258	253	–5
ADS	258	253	–5
AE[1)]	–	359	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	575	583.5	+8.5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	586	594.5	+8.5
LB LIA300	581	589.5	+8.5
LB LIA350	575	583.5	+8.5
LB L08400	568	576.5	+8.5
LB L08450	560	568.5	+8.5
LB L08550	552	560.5	+8.5
Delta LBS	156	199	+43
LB FF	575	583.5	+8.5
IEC D	48	48	0
IEC L	110	110	0
RZ D	32	32	0
H	180	180	0
A	279	279	0
B	279	279	0
D	121	121	0
K	14.5	14.5	0
AB	320	320	0
BB	319	319	0
C	40	35	–5
V	156	180	+24
VB	152	180	+28
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	259	253	–6
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	259	253	–6
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	280	79	–201
GB /E	124	79	–45
GV /E+/V	405	240	–165
GVB /E+/V	249	240	–9

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.38 D(F)V180M4 ↔ DRP180LC4, 18.5 kW, 50 Hz



3.38.1 Technical data

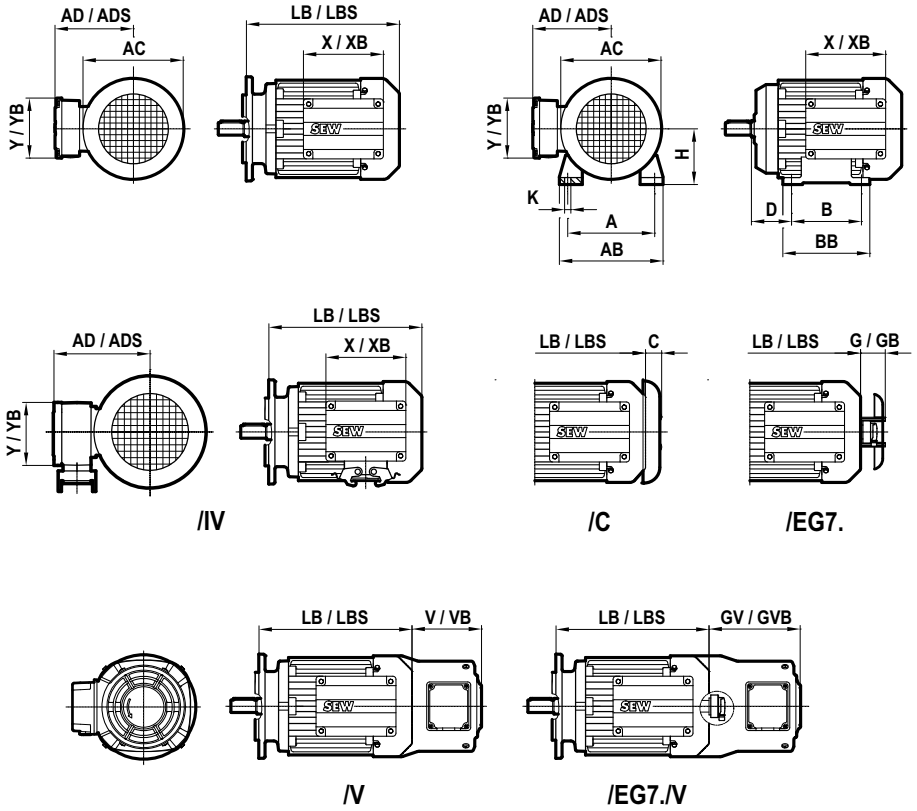
18.5 kW / 50 Hz	DV180M4	DRP180LC4	
M_N[Nm]	121	119	–1.7%
n_N [rpm]	1465	1480	1.0%
M_A/M_N	2.6	2.6	0%
M_H/M_N	2	2	0%
I_N [A]	38.5	35	–9.1%
I_A/I_N	5.9	8	35.6%
cos φ	0.8	0.82	2.5%
η 75% A [%]	90.8	93.4	2.9%
η 100% A [%]	90	93.2	3.6%
η 75% B [%]	90.8	93.4	2.9%
η 100% B [%]	90	93.2	3.6%
J_{Mot} [10^{-4} kgm²]	1120	1680	50.0%
J_{BMot} [10^{-4} kgm²]	1255	1820	45.0%
J_{2BMot} [10^{-4} kgm²]	1350	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	147	172	17.0%
m_{BMot} [kg]	188	210	11.7%
m_{2BMot} [kg]	192	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1300	520	–60.0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	50	–

3.38.2 Dimensioning [mm]

18.5 kW / 50 Hz	DV180M4	DRP180LC4	
AC	331	317	–14
AD	258	253	–5
ADS	258	253	–5
AE[1)]	–	359	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	575	583.5	+8.5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	586	594.5	+8.5
LB LIA300	581	589.5	+8.5
LB LIA350	575	583.5	+8.5
LB L08400	568	576.5	+8.5
LB L08450	560	568.5	+8.5
LB L08550	552	560.5	+8.5
Delta LBS	156	199	+43
LB FF	575	583.5	+8.5
IEC D	48	48	0
IEC L	110	110	0
RZ D	32	32	0
H	180	180	0
A	279	279	0
B	279	279	0
D	121	121	0
K	14.5	14.5	0
AB	320	320	0
BB	319	319	0
C	40	35	–5
V	156	180	+24
VB	152	180	+28
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	259	253	–6
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	259	253	–6
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	280	79	–201
GB /E	124	79	–45
GV /E+/V	405	240	–165
GVB /E+/V	249	240	–9

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.39 D(F)V180M4 ↔ DRP200L4, 18.5 kW, 50 Hz



3.39.1 Technical data

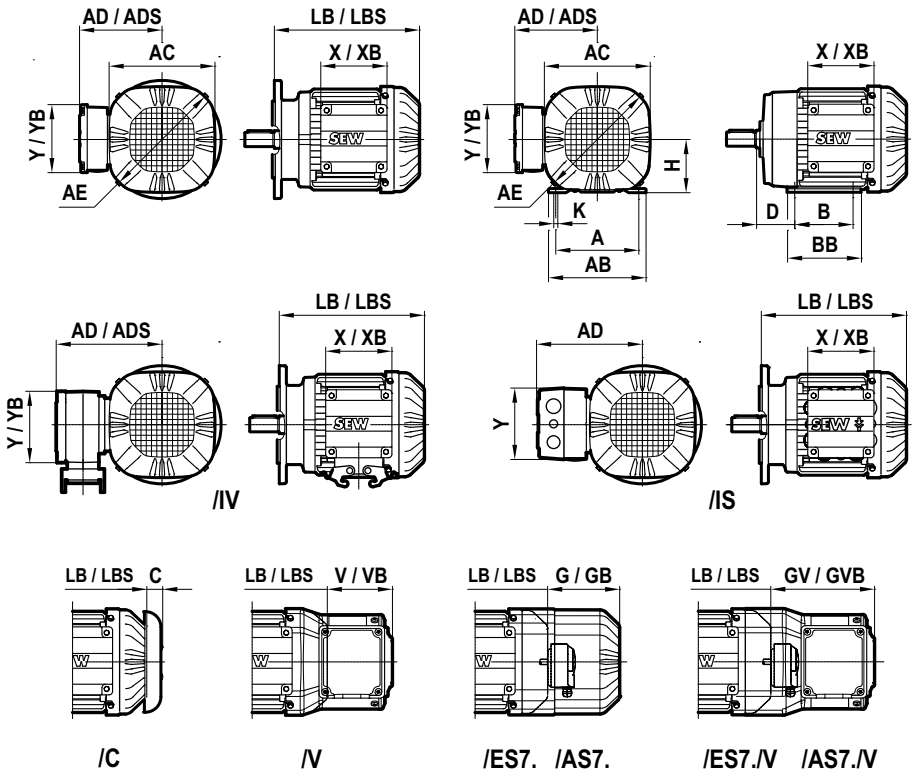
18.5 kW / 50 Hz	DV180M4	DRP200L4	
M_N[Nm]	121	119	–1.7%
n_N [rpm]	1465	1483	1.2%
M_A/M_N	2.6	2.6	0%
M_H/M_N	2	2.2	10.0%
I_N [A]	38.5	34.5	–10.4%
I_A/I_N	5.9	7.8	32.2%
cos φ	0.8	0.83	3.8%
η 75% A [%]	90.8	93.5	3.0%
η 100% A [%]	90	93.3	3.7%
η 75% B [%]	90.8	93.5	3.0%
η 100% B [%]	90	93.3	3.7%
J_{Mot} [10^{-4} kgm²]	1120	2360	110.7%
J_{BMot} [10^{-4} kgm²]	1255	2500	99.2%
J_{2BMot} [10^{-4} kgm²]	1350	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	147	260	76.9%
m_{BMot} [kg]	188	310	64.9%
m_{2BMot} [kg]	192	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	1300	550	–57.7%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	40	–

3.39.2 Dimensioning [mm]

18.5 kW / 50 Hz	DV180M4	DRP200L4	
AC	331	394	+63
AD	258	283	+25
ADS	258	283	+25
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	575	656	+81
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	586	–	–
LB LIA300	581	662	+81
LB LIA350	575	656	+81
LB L08400	568	649	+81
LB L08450	560	641	+81
LB L08550	552	633	+81
Delta LBS	156	220	+64
LB FF	575	649	+74
IEC D	48	48	0
IEC L	110	110	0
RZ D	32	32	0
H	180	200	+20
A	279	318	+39
B	279	305	+26
D	121	133	+12
K	14.5	18.5	+4
AB	320	378	+58
BB	319	355	+36
C	40	35	–5
V	156	220	+64
VB	152	220	+68
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	259	283	+24
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	259	283	+24
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	280	79	–201
GB /E	124	79	–45
GV /E+/V	405	280	–125
GVB /E+/V	249	280	+31

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.40 D(F)V180L4 ↔ DRS180L4, 22 kW, 50 Hz



3.40.1 Technical data

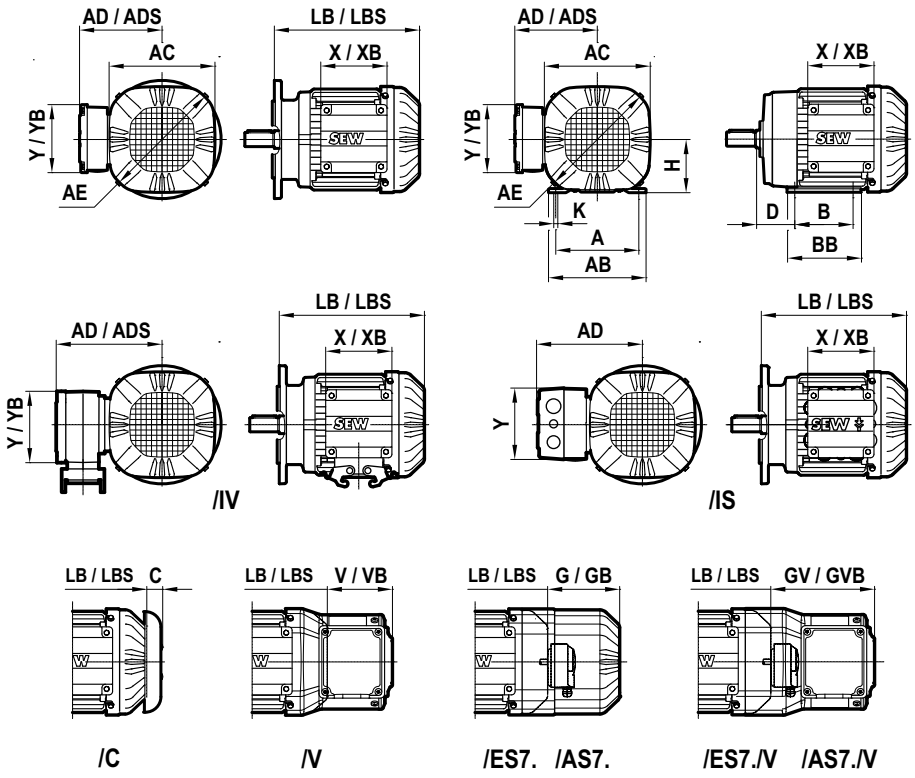
22 kW / 50 Hz	DV180L4	DRS180L4	
M_N[Nm]	143	143	0%
n_N [rpm]	1465	1465	0%
M_A/M_N	2,7	2,4	–11,1%
M_H/M_N	2	2	0%
I_N [A]	46	41,5	–9,8%
I_A/I_N	6	6,9	15,0%
cos φ	0,82	0,84	2,4%
η 75% A [%]	91,4	92,2	0,9%
η 100% A [%]	90,5	91,5	1,1%
η 75% B [%]	91,4	92,5	1,2%
η 100% B [%]	90,5	92,2	1,9%
J_{Mot} [10^{-4} kgm²]	1290	1300	0,8%
J_{BMot} [10^{-4} kgm²]	1425	1440	1,1%
J_{2BMot} [10^{-4} kgm²]	1520	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	158	152	–3,8%
m_{BMot} [kg]	200	192	–4,0%
m_{2BMot} [kg]	204	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	650	590	–9,2%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	60	–

3.40.2 Dimensioning [mm]

22 kW / 50 Hz	DV180L4	DRS180L4	
AC	331	317	–14
AD	258	253	–5
ADS	258	253	–5
AE[1)]	–	359	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	575	583,5	+8,5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	586	594,5	+8,5
LB LIA300	581	589,5	+8,5
LB LIA350	575	583,5	+8,5
LB L08400	568	576,5	+8,5
LB L08450	560	568,5	+8,5
LB L08550	552	560,5	+8,5
Delta LBS	156	199	+43
LB FF	575	583,5	+8,5
IEC D	48	48	0
IEC L	110	110	0
RZ D	32	32	0
H	180	180	0
A	279	279	0
B	279	279	0
D	121	121	0
K	14,5	14,5	0
AB	320	320	0
BB	319	319	0
C	40	35	–5
V	156	180	+24
VB	152	180	+28
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	259	253	–6
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	259	253	–6
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	280	79	–201
GB /E	124	79	–45
GV /E+/V	405	240	–165
GVB /E+/V	249	240	–9

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.41 D(F)V180L4 ↔ DRE180LC4, 22 kW, 50 Hz



3.41.1 Technical data

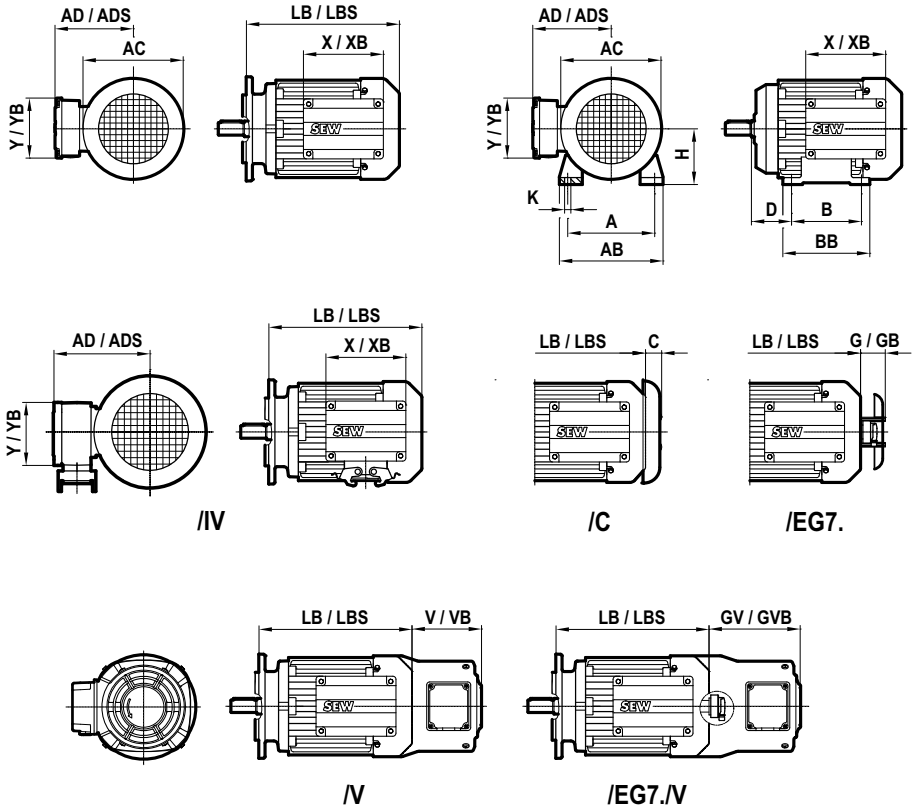
22 kW / 50 Hz	DV180L4	DRE180LC4	
M_N[Nm]	143	142	–0.7%
n_N [rpm]	1465	1480	1.0%
M_A/M_N	2.7	2.3	–14.8%
M_H/M_N	2	1.9	–5.0%
I_N [A]	46	42	–8.7%
I_A/I_N	6	7.1	18.3%
cos φ	0.82	0.82	0%
η 75% A [%]	91.4	92.6	1.3%
η 100% A [%]	90.5	92.2	1.9%
η 75% B [%]	91.4	93.2	2.0%
η 100% B [%]	90.5	93.2	3.0%
J_{Mot} [10^{-4} kgm²]	1290	1680	30.2%
J_{BMot} [10^{-4} kgm²]	1425	1820	27.7%
J_{2BMot} [10^{-4} kgm²]	1520	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	158	161	1.9%
m_{BMot} [kg]	200	205	2.5%
m_{2BMot} [kg]	204	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	650	520	–20.0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	70	–

3.41.2 Dimensioning [mm]

22 kW / 50 Hz	DV180L4	DRE180LC4	
AC	331	317	–14
AD	258	253	–5
ADS	258	253	–5
AE[1)]	–	359	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	575	583.5	+8.5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	586	594.5	+8.5
LB LIA300	581	589.5	+8.5
LB LIA350	575	583.5	+8.5
LB L08400	568	576.5	+8.5
LB L08450	560	568.5	+8.5
LB L08550	552	560.5	+8.5
Delta LBS	156	199	+43
LB FF	575	583.5	+8.5
IEC D	48	48	0
IEC L	110	110	0
RZ D	32	32	0
H	180	180	0
A	279	279	0
B	279	279	0
D	121	121	0
K	14.5	14.5	0
AB	320	320	0
BB	319	319	0
C	40	35	–5
V	156	180	+24
VB	152	180	+28
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	259	253	–6
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	259	253	–6
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	280	79	–201
GB /E	124	79	–45
GV /E+/V	405	240	–165
GVB /E+/V	249	240	–9

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.42 D(F)V180L4 ↔ DRP200L4, 22 kW, 50 Hz



3.42.1 Technical data

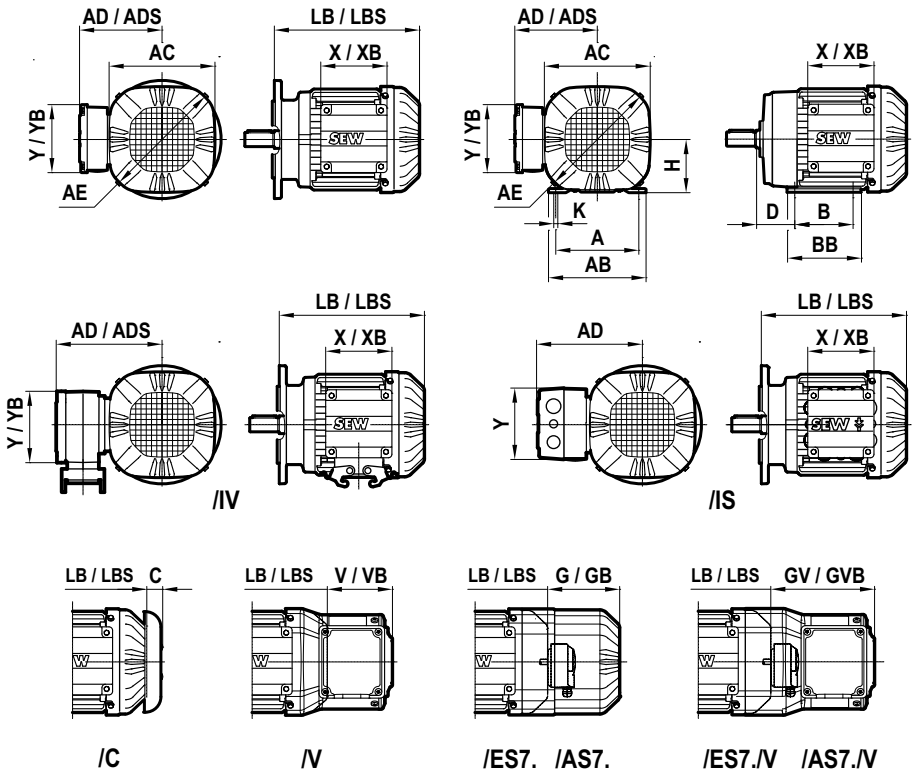
22 kW / 50 Hz	DV180L4	DRP200L4	
M_N[Nm]	143	119	–16.8%
n_N [rpm]	1465	1483	1.2%
M_A/M_N	2.7	2.6	–3.7%
M_H/M_N	2	2.2	10.0%
I_N [A]	46	34.5	–25.0%
I_A/I_N	6	7.8	30.0%
cos φ	0.82	0.83	1.2%
η 75% A [%]	91.4	93.5	2.3%
η 100% A [%]	90.5	93.3	3.1%
η 75% B [%]	91.4	93.5	2.3%
η 100% B [%]	90.5	93.3	3.1%
J_{Mot} [10^{-4} kgm²]	1290	2360	82.9%
J_{BMot} [10^{-4} kgm²]	1425	2500	75.4%
J_{2BMot} [10^{-4} kgm²]	1520	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	158	260	64.6%
m_{BMot} [kg]	200	310	55.0%
m_{2BMot} [kg]	204	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	650	550	–15.4%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	40	–

3.42.2 Dimensioning [mm]

22 kW / 50 Hz	DV180L4	DRP200L4	
AC	331	394	+63
AD	258	283	+25
ADS	258	283	+25
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	575	656	+81
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	586	–	–
LB LIA300	581	662	+81
LB LIA350	575	656	+81
LB L08400	568	649	+81
LB L08450	560	641	+81
LB L08550	552	633	+81
Delta LBS	156	220	+64
LB FF	575	649	+74
IEC D	48	48	0
IEC L	110	110	0
RZ D	32	32	0
H	180	200	+20
A	279	318	+39
B	279	305	+26
D	121	133	+12
K	14.5	18.5	+4
AB	320	378	+58
BB	319	355	+36
C	40	35	–5
V	156	220	+64
VB	152	220	+68
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	259	283	+24
X /IV	191	182	–9
Y /IV	161	152	–9
ADS /IV	259	283	+24
XB /IV	191	182	–9
YB /IV	161	152	–9
G /E	280	79	–201
GB /E	124	79	–45
GV /E+/V	405	280	–125
GVB /E+/V	249	280	+31

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.43 D(F)V200L4 ↔ DRS180LC4, 30 kW, 50 Hz



3.43.1 Technical data

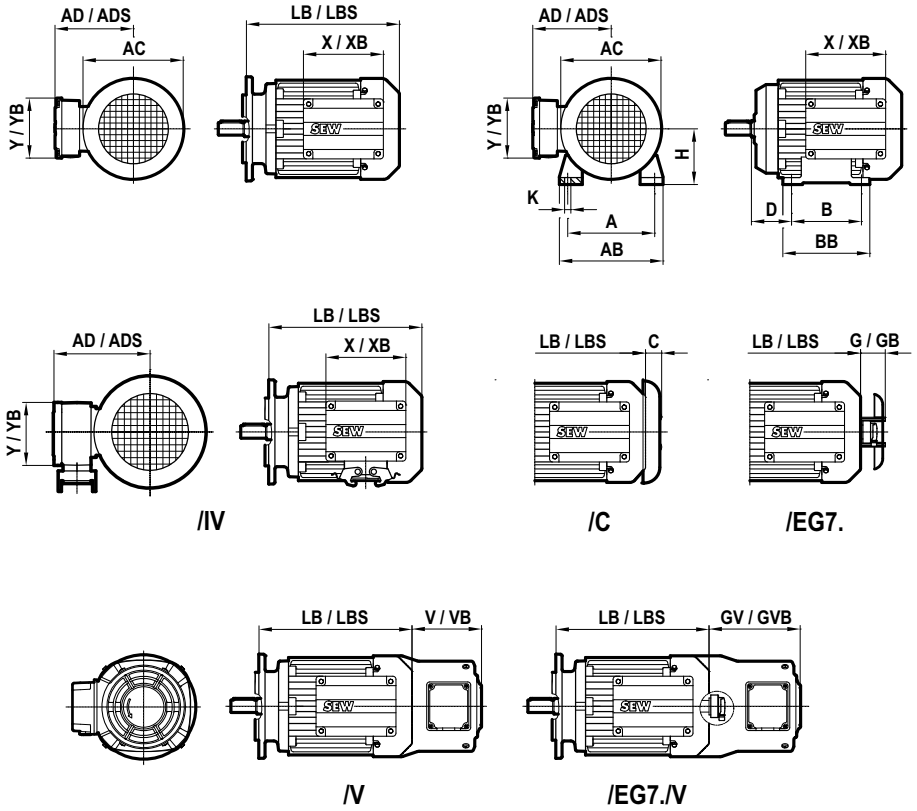
30 kW / 50 Hz	DV200L4	DRS180LC4	
M_N[Nm]	195	195	0%
n_N [rpm]	1470	1470	0%
M_A/M_N	2.8	1.8	–35.7%
M_H/M_N	2	1.5	–25.0%
I_N [A]	57	57	0%
I_A/I_N	6.5	5.6	–13.8%
cos φ	0.86	0.84	–2.3%
η 75% A [%]	91.8	92	0.2%
η 100% A [%]	91.5	90.9	–0.7%
η 75% B [%]	91.8	92.6	0.9%
η 100% B [%]	91.5	91.9	0.4%
J_{Mot} [10^{-4} kgm²]	2340	1680	–28.2%
J_{BMot} [10^{-4} kgm²]	2475	–	–
J_{2BMot} [10^{-4} kgm²]	2570	1910	–25.7%
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	244	161	–34.0%
m_{BMot} [kg]	295	–	–
m_{2BMot} [kg]	299	205	–31.4%
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	600	520	–13.3%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	95	–

3.43.2 Dimensioning [mm]

30 kW / 50 Hz	DV200L4	DRS180LC4	
AC	394	317	–77
AD	285	253	–32
ADS	285	253	–32
AE[1)]	–	359	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	616	583.5	–32.5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	594.5	–
LB LIA300	629	589.5	–39.5
LB LIA350	623	583.5	–39.5
LB L08400	616	576.5	–39.5
LB L08450	608	568.5	–39.5
LB L08550	600	560.5	–39.5
Delta LBS	156	199	+43
LB FF	616	583.5	–32.5
IEC D	55	55	0
IEC L	110	110	0
RZ D	38	38	0
H	200	180	–20
A	318	279	–39
B	305	279	–26
D	133	121	–12
K	18.5	14.5	–4
AB	378	320	–58
BB	355	319	–36
C	47	35	–12
V	155	180	+25
VB	168	180	+12
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	253	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	253	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	291	79	–212
GB /E	136	79	–57
GV /E+/V	415	240	–175
GVB /E+/V	259	240	–19

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.44 D(F)V200L4 ↔ DRS200L4, 30 kW, 50 Hz



3.44.1 Technical data

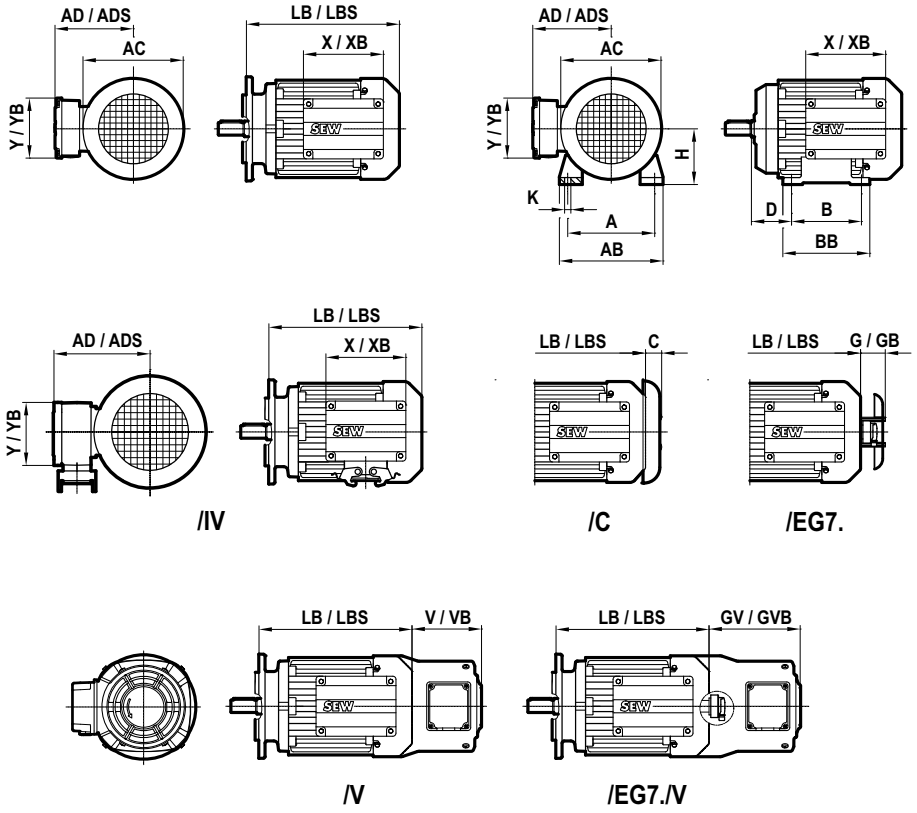
30 kW / 50 Hz	DV200L4	DRS200L4	
M_N[Nm]	195	194	–0.5%
n_N [rpm]	1470	1475	0.3%
M_A/M_N	2.8	2.1	–25.0%
M_H/M_N	2	1.9	–5.0%
I_N [A]	57	57	0%
I_A/I_N	6.5	6.4	–1.5%
cos φ	0.86	0.82	–4.7%
η 75% A [%]	91.8	92.9	1.2%
η 100% A [%]	91.5	92.3	0.9%
η 75% B [%]	91.8	93.1	1.4%
η 100% B [%]	91.5	92.8	1.4%
J_{Mot} [10^{-4} kgm²]	2340	2360	0.9%
J_{BMot} [10^{-4} kgm²]	2475	–	–
J_{2BMot} [10^{-4} kgm²]	2570	2590	0.8%
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	244	260	6.6%
m_{BMot} [kg]	295	–	–
m_{2BMot} [kg]	299	315	5.4%
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	600	550	–8.3%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	75	–

3.44.2 Dimensioning [mm]

30 kW / 50 Hz	DV200L4	DRS200L4	
AC	394	394	0
AD	285	283	–2
ADS	285	283	–2
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	616	656	+40
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	629	662	+33
LB LIA350	623	656	+33
LB L08400	616	649	+33
LB L08450	608	641	+33
LB L08550	600	633	+33
Delta LBS	156	220	+64
LB FF	616	649	+33
IEC D	55	55	0
IEC L	110	110	0
RZ D	38	38	0
H	200	200	0
A	318	318	0
B	305	305	0
D	133	133	0
K	18.5	18.5	0
AB	378	378	0
BB	355	355	0
C	47	35	–12
V	155	220	+65
VB	168	220	+52
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	283	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	283	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	291	79	–212
GB /E	136	79	–57
GV /E+/V	415	280	–135
GVB /E+/V	259	280	+21

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.45 D(F)V200L4 ↔ DRE200L4, 30 kW, 50 Hz



3.45.1 Technical data

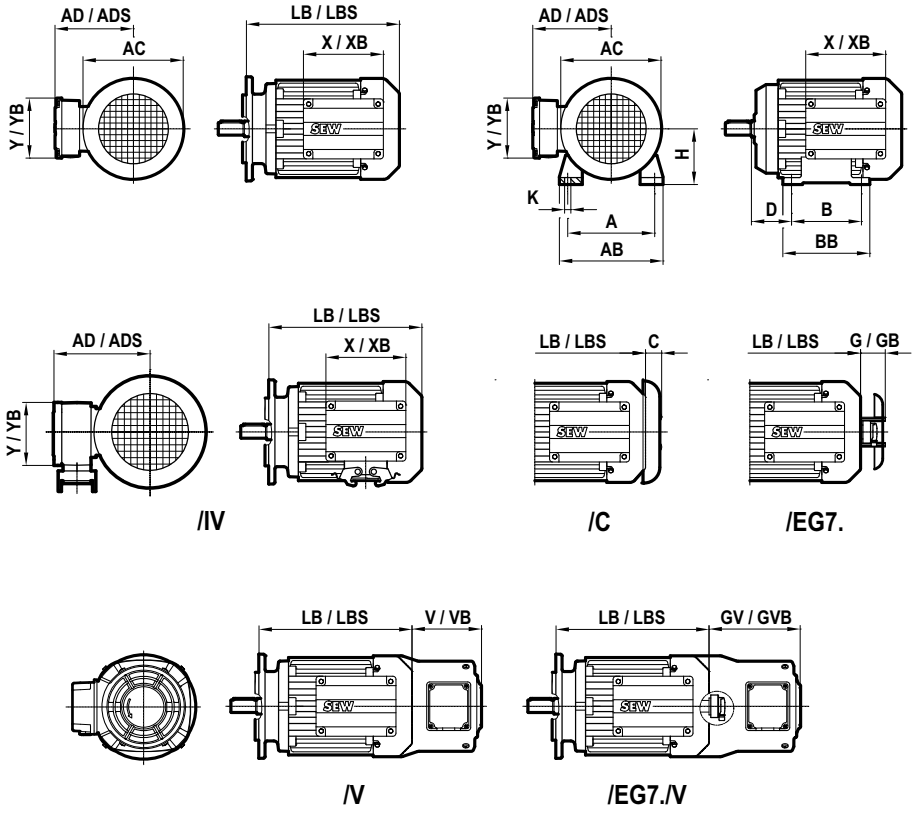
30 kW / 50 Hz	DV200L4	DRE200L4	
M_N[Nm]	195	194	–0.5%
n_N [rpm]	1470	1475	0.3%
M_A/M_N	2.8	2.1	–25.0%
M_H/M_N	2	1.9	–5.0%
I_N [A]	57	57	0%
I_A/I_N	6.5	6.3	–3.1%
cos φ	0.86	0.82	–4.7%
η 75% A [%]	91.8	92.9	1.2%
η 100% A [%]	91.5	92.4	1.0%
η 75% B [%]	91.8	93.4	1.7%
η 100% B [%]	91.5	93.2	1.9%
J_{Mot} [10^{-4} kgm²]	2340	2360	0.9%
J_{BMot} [10^{-4} kgm²]	2475	2500	1.0%
J_{2BMot} [10^{-4} kgm²]	2570	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	244	260	6.6%
m_{BMot} [kg]	295	310	5.1%
m_{2BMot} [kg]	299	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	600	550	–8.3%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	70	–

3.45.2 Dimensioning [mm]

30 kW / 50 Hz	DV200L4	DRE200L4	
AC	394	394	0
AD	285	283	–2
ADS	285	283	–2
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	616	656	+40
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	629	662	+33
LB LIA350	623	656	+33
LB L08400	616	649	+33
LB L08450	608	641	+33
LB L08550	600	633	+33
Delta LBS	156	220	+64
LB FF	616	649	+33
IEC D	55	48	–7
IEC L	110	110	0
RZ D	38	38	0
H	200	200	0
A	318	318	0
B	305	305	0
D	133	133	0
K	18.5	18.5	0
AB	378	378	0
BB	355	355	0
C	47	35	–12
V	155	220	+65
VB	168	220	+52
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	283	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	283	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	291	79	–212
GB /E	136	79	–57
GV /E+/V	415	280	–135
GVB /E+/V	259	280	21

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.46 D(F)V200L4 ↔ DRP225S4, 30 kW, 50 Hz



3.46.1 Technical data

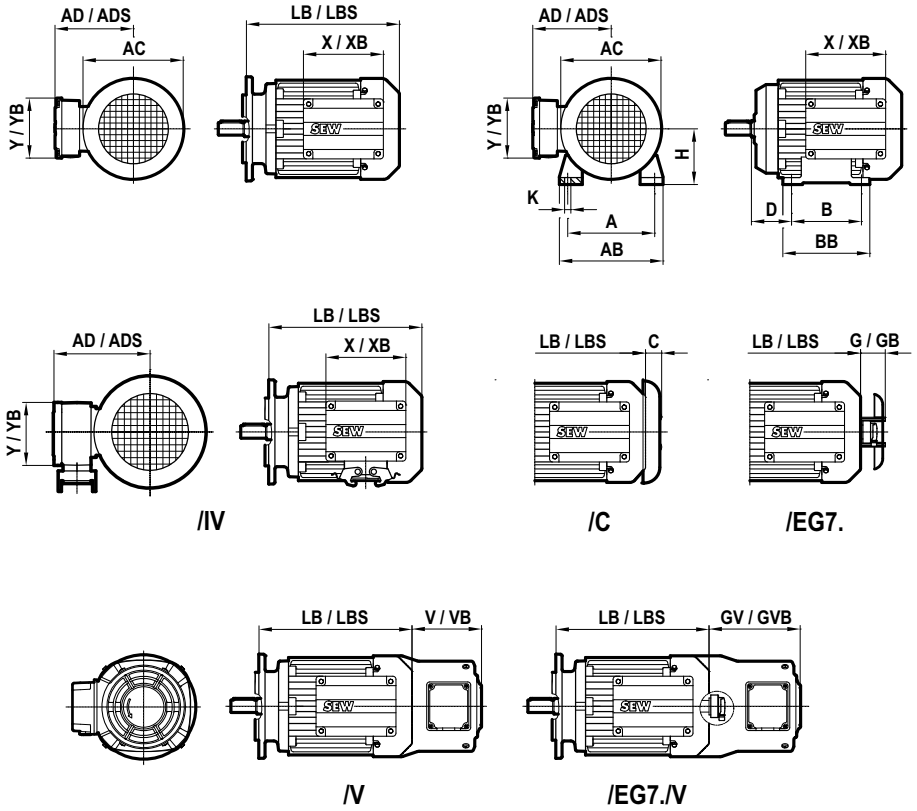
30 kW / 50 Hz	DV200L4	DRP225S4	
M_N[Nm]	195	194	–0.5%
n_N [rpm]	1470	1480	0.7%
M_A/M_N	2.8	2.6	–7.1%
M_H/M_N	2	2.2	10.0%
I_N [A]	57	55	–3.5%
I_A/I_N	6.5	7.4	13.8%
cos φ	0.86	0.85	–1.2%
η 75% A [%]	91.8	94.3	2.7%
η 100% A [%]	91.5	93.9	2.6%
η 75% B [%]	91.8	94.3	2.7%
η 100% B [%]	91.5	93.9	2.6%
J_{Mot} [10^{-4} kgm²]	2340	2390	2.1%
J_{BMot} [10^{-4} kgm²]	2475	3070	24.0%
J_{2BMot} [10^{-4} kgm²]	2570	–	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	244	290	18.9%
m_{BMot} [kg]	295	340	15.3%
m_{2BMot} [kg]	299	–	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	600	320	–46.7%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	50	–

3.46.2 Dimensioning [mm]

30 kW / 50 Hz	DV200L4	DRP225S4	
AC	394	394	0
AD	285	283	–2
ADS	285	283	–2
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	616	656	+40
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	629	662	+33
LB LIA350	623	656	+33
LB L08400	616	649	+33
LB L08450	608	641	+33
LB L08550	600	633	+33
Delta LBS	156	220	+64
LB FF	616	649	+33
IEC D	55	55	0
IEC L	110	110	0
RZ D	38	38	0
H	200	200	0
A	318	318	0
B	305	305	0
D	133	133	0
K	18.5	18.5	0
AB	378	378	0
BB	355	355	0
C	47	35	–12
V	155	220	+65
VB	168	220	+52
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	283	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	283	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	291	79	–212
GB /E	136	79	–57
GV /E+/V	415	280	–135
GVB /E+/V	259	280	+21

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.47 D(F)V225S4 ↔ DRS225S4, 37 kW, 50 Hz



3.47.1 Technical data

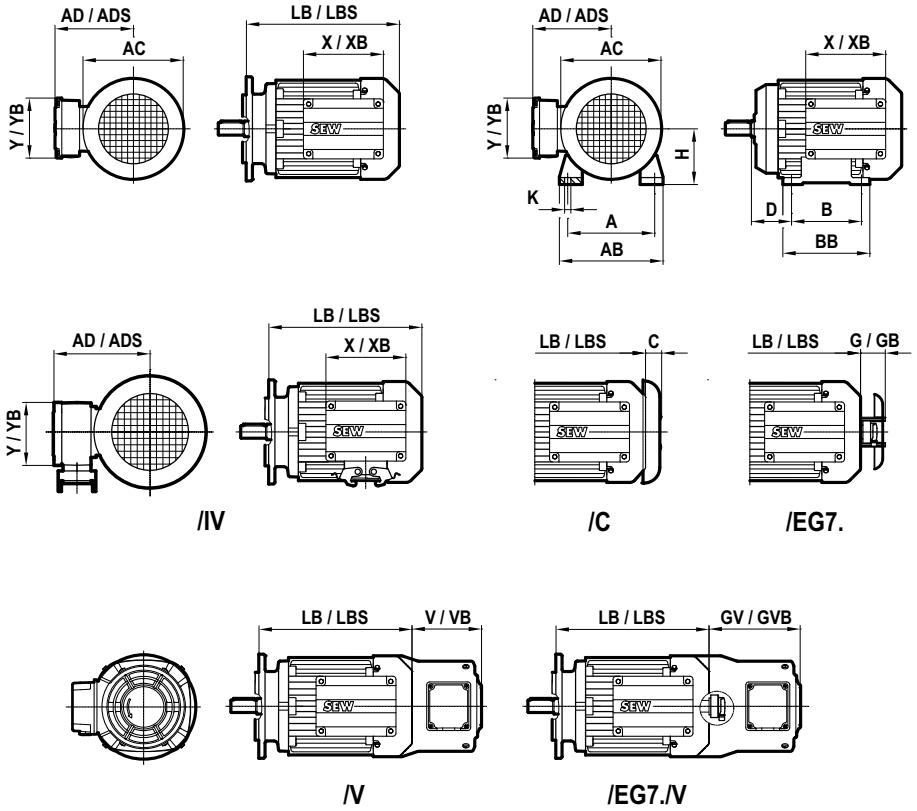
37 kW / 50 Hz	DV225S4	DRS225S4	
M_N[Nm]	240	240	0%
n_N [rpm]	1470	1475	0.3%
M_A/M_N	2.8	2.4	–14.3%
M_H/M_N	2	1.9	–5.0%
I_N [A]	70	70	0%
I_A/I_N	6.5	7.1	9.2%
cos φ	0.87	0.82	–5.7%
η 75% A [%]	93.2	93	–0.2%
η 100% A [%]	92.5	92.6	0.1%
η 75% B [%]	93.2	93.8	0.6%
η 100% B [%]	92.5	93.5	1.1%
J_{Mot} [10^{-4} kgm²]	3010	2930	–2.7%
J_{BMot} [10^{-4} kgm²]	3145	–	–
J_{2BMot} [10^{-4} kgm²]	3240	3160	–2.5%
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	296	295	–0.3%
m_{BMot} [kg]	347	–	–
m_{2BMot} [kg]	351	350	–0.3%
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	360	320	–11.1%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	60	–

3.47.2 Dimensioning [mm]

37 kW / 50 Hz	DV225S4	DRS225S4	
AC	394	394	0
AD	289	283	–6
ADS	289	283	–6
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	690	656	–34
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	662	–
LB LIA350	705	656	–49
LB L08400	698	649	–49
LB L08450	690	641	–49
LB L08550	682	633	–49
Delta LBS	156	220	+64
LB FF	690	649	–41
IEC D	60	60	0
IEC L	140	140	0
RZ D	38	38	0
H	225	225	0
A	356	356	0
B	311	311	0
D	149	149	0
K	18.5	18.5	0
AB	414	414	0
BB	371	371	0
C	47	35	–12
V	155	220	+65
VB	168	220	+52
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	283	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	283	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	291	79	–212
GB /E	136	79	–57
GV /E+/V	415	280	–135
GVB /E+/V	259	280	+21

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.48 D(F)V225S4 ↔ DRE225S4, 37 kW, 50 Hz



3.48.1 Technical data

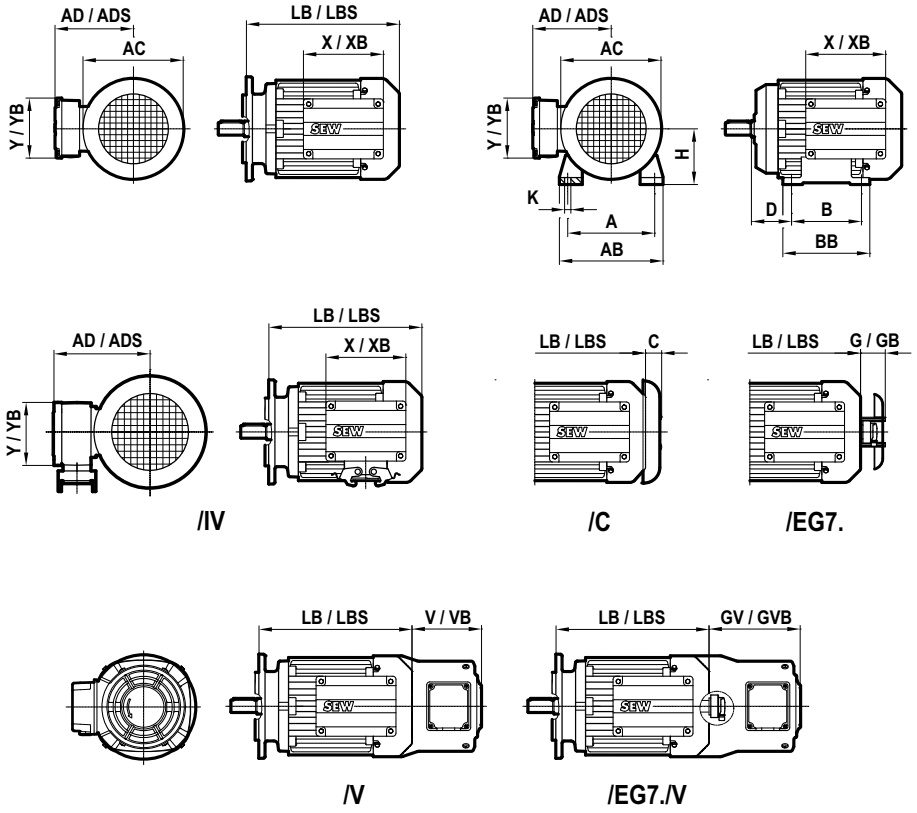
37 kW / 50 Hz	DV225S4	DRE225S4	
M_N[Nm]	240	240	0%
n_N [rpm]	1470	1477	0.5%
M_A/M_N	2.8	2.5	–10.7%
M_H/M_N	2	2	0%
I_N [A]	70	70	0%
I_A/I_N	6.5	7	7.7%
cos φ	0.87	0.82	–5.7%
η 75% A [%]	93.2	93.6	0.4%
η 100% A [%]	92.5	93.2	0.8%
η 75% B [%]	93.2	93.8	0.6%
η 100% B [%]	92.5	93.6	1.2%
J_{Mot} [10^{-4} kgm²]	3010	2930	–2.7%
J_{BMot} [10^{-4} kgm²]	3145	–	–
J_{2BMot} [10^{-4} kgm²]	3240	3160	–2.5%
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	296	295	–0.3%
m_{BMot} [kg]	347	–	–
m_{2BMot} [kg]	351	350	–0.3%
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	360	320	–11.1%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	70	–

3.48.2 Dimensioning [mm]

37 kW / 50 Hz	DV225S4	DRE225S4	
AC	394	394	0
AD	289	283	–6
ADS	289	283	–6
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	690	656	–34
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	662	–
LB LIA350	705	656	–49
LB L08400	698	649	–49
LB L08450	690	641	–49
LB L08550	682	633	–49
Delta LBS	156	220	+64
LB FF	690	649	–41
IEC D	60	55	–5
IEC L	140	110	–30
RZ D	38	38	0
H	225	200	–25
A	356	318	–38
B	311	305	–6
D	149	133	–16
K	18.5	18.5	0
AB	414	378	–36
BB	371	355	–16
C	47	35	–12
V	155	220	+65
VB	168	220	+52
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	283	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	283	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	291	79	–212
GB /E	136	79	–57
GV /E+/V	415	280	–135
GVB /E+/V	259	280	+21

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.49 D(F)V225S4 ↔ DRP225M4, 37 kW, 50 Hz



3.49.1 Technical data

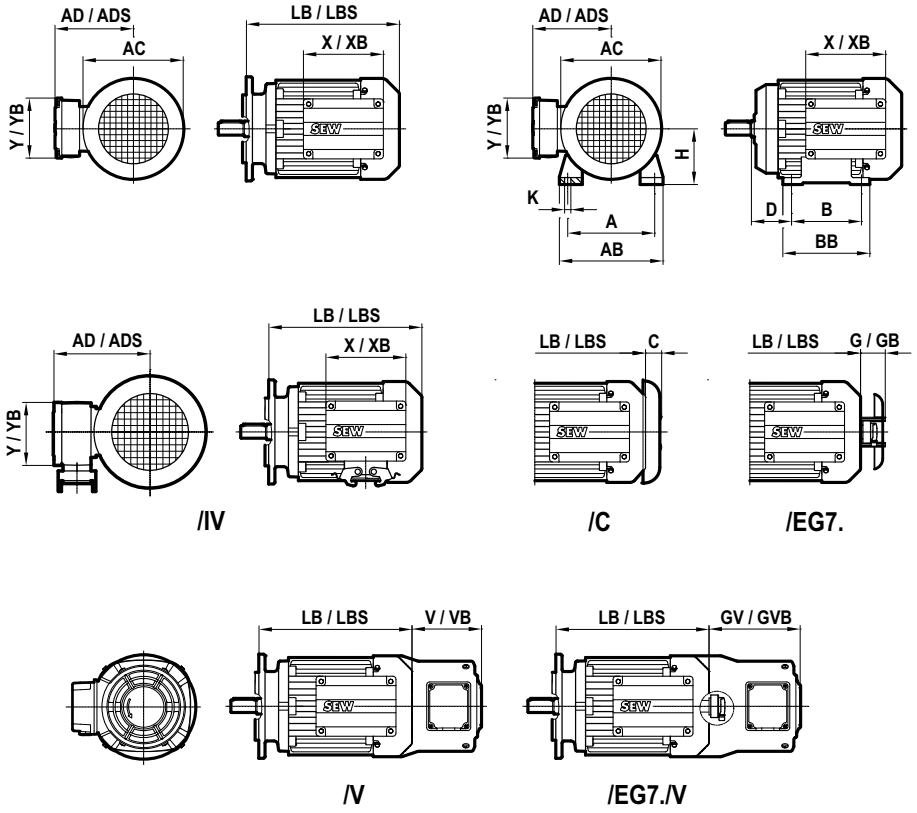
37 kW / 50 Hz	DV225S4	DRP225M4	
M_N[Nm]	240	240	0%
n_N [rpm]	1470	1482	0.8%
M_A/M_N	2.8	2.9	3.6%
M_H/M_N	2	2.6	30.0%
I_N [A]	70	69	–1.4%
I_A/I_N	6.5	8.4	29.2%
cos φ	0.87	0.83	–4.6%
η 75% A [%]	93.2	94.1	1.0%
η 100% A [%]	92.5	94	1.6%
η 75% B [%]	93.2	94.1	1.0%
η 100% B [%]	92.5	94	1.6%
J_{Mot} [10^{-4} kgm²]	3010	3430	14.0%
J_{BMot} [10^{-4} kgm²]	3145	–	–
J_{2BMot} [10^{-4} kgm²]	3240	3660	13.0%
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	296	315	6.4%
m_{BMot} [kg]	347	–	–
m_{2BMot} [kg]	351	370	5.4%
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	360	270	–25.0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	55	–

3.49.2 Dimensioning [mm]

37 kW / 50 Hz	DV225S4	DRP225M4	
AC	394	394	0
AD	289	283	–6
ADS	289	283	–6
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	690	706	+16
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	712	–
LB LIA350	705	706	+1
LB L08400	698	699	+1
LB L08450	690	691	+1
LB L08550	682	683	+1
Delta LBS	156	220	+64
LB FF	690	699	+9
IEC D	60	60	0
IEC L	140	140	0
RZ D	38	38	0
H	225	225	0
A	356	356	0
B	311	311	0
D	149	133	–16
K	18.5	18.5	0
AB	414	378	–36
BB	371	355	–16
C	47	35	–12
V	155	220	+65
VB	168	220	+52
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	283	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	283	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	291	79	–212
GB /E	136	79	–57
GV /E+/V	415	280	–135
GVB /E+/V	259	280	+21

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.50 D(F)V225M4 ↔ DRS225M4, 45 kW, 50 Hz



3.50.1 Technical data

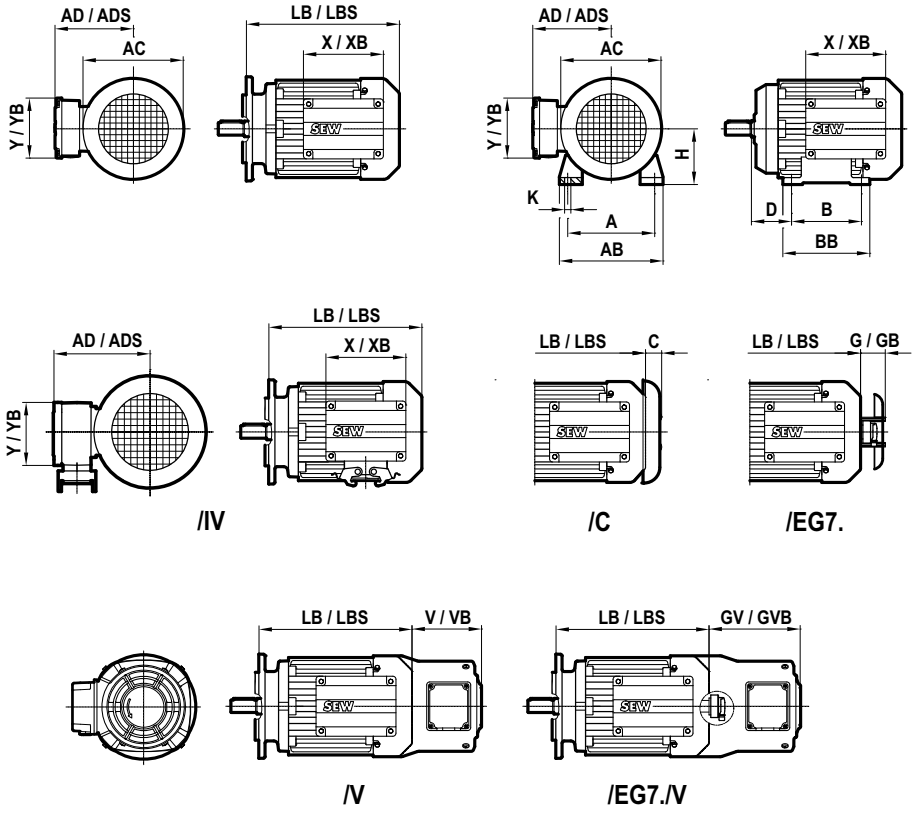
45 kW / 50 Hz	DV225M4	DRS225M4	
M_N[Nm]	292	290	–0.7%
n_N [rpm]	1470	1480	0.7%
M_A/M_N	3.3	2.5	–24.2%
M_H/M_N	2	2.2	10.0%
I_N [A]	86	84	–2.3%
I_A/I_N	7.3	7.4	1.4%
cos φ	0.85	0.83	–2.4%
η 75% A [%]	93.8	93.4	–0.4%
η 100% A [%]	93	93	0.0%
η 75% B [%]	93.8	94.1	0.3%
η 100% B [%]	93	93.8	0.9%
J_{Mot} [10^{-4} kgm²]	3570	3430	–3.9%
J_{BMot} [10^{-4} kgm²]	3705	–	–
J_{2BMot} [10^{-4} kgm²]	3800	3660	–3.7%
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	325	315	–3.1%
m_{BMot} [kg]	377	–	–
m_{2BMot} [kg]	381	370	–2.9%
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	300	270	–10.0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	75	–

3.50.2 Dimensioning [mm]

45 kW / 50 Hz	DV225M4	DRS225M4	
AC	394	394	0
AD	289	283	–6
ADS	289	283	–6
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	690	706	+16
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	712	–
LB LIA350	705	706	+1
LB L08400	698	699	+1
LB L08450	690	691	+1
LB L08550	682	683	+1
Delta LBS	156	220	+64
LB FF	690	699	+9
IEC D	60	60	0
IEC L	140	140	0
RZ D	38	38	0
H	225	225	0
A	356	356	0
B	311	311	0
D	149	149	0
K	18.5	18.5	0
AB	414	414	0
BB	371	371	0
C	47	35	–12
V	155	220	+65
VB	168	220	+52
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	283	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	283	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	291	79	–212
GB /E	136	79	–57
GV /E+/V	415	280	–135
GVB /E+/V	259	280	+21

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.51 D(F)V225M4 ↔ DRE225M4, 45 kW, 50 Hz



3.51.1 Technical data

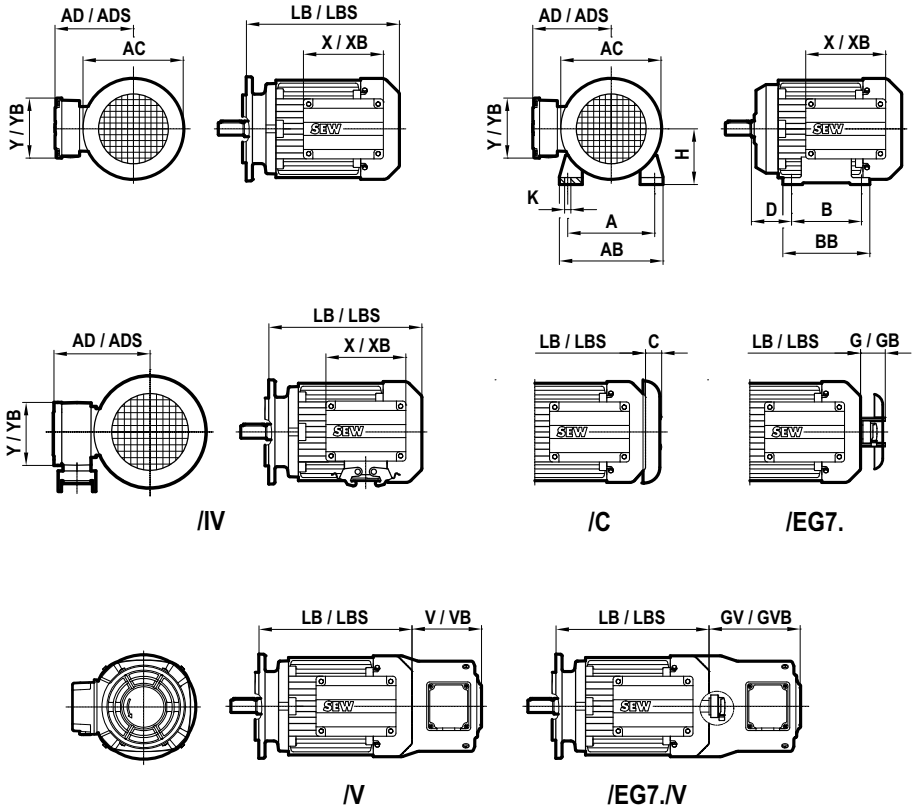
45 kW / 50 Hz	DV225M4	DRE225M4	
M_N[Nm]	292	290	–0.7%
n_N [rpm]	1470	1478	0.5%
M_A/M_N	3.3	2.5	–24.2%
M_H/M_N	2	2.1	5.0%
I_N [A]	86	84	–2.3%
I_A/I_N	7.3	7.3	0.0%
cos φ	0.85	0.83	–2.4%
η 75% A [%]	93.8	93.7	–0.1%
η 100% A [%]	93	93.3	0.3%
η 75% B [%]	93.8	94.1	0.3%
η 100% B [%]	93	93.9	1.0%
J_{Mot} [10^{-4} kgm²]	3570	3430	–3.9%
J_{BMot} [10^{-4} kgm²]	3705	–	–
J_{2BMot} [10^{-4} kgm²]	3800	3660	–3.7%
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	325	315	–3.1%
m_{BMot} [kg]	377	–	–
m_{2BMot} [kg]	381	370	–2.9%
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	300	270	–10.0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	70	–

3.51.2 Dimensioning [mm]

45 kW / 50 Hz	DV225M4	DRE225M4	
AC	394	394	0
AD	289	283	–6
ADS	289	283	–6
AE[1)]	–	–	–
X	182	182	0
Y	152	152	0
XB	182	182	0
YB	152	152	0
LB	690	706	+16
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	712	–
LB LIA350	705	706	+1
LB L08400	698	699	+1
LB L08450	690	691	+1
LB L08550	682	683	+1
Delta LBS	156	220	+64
LB FF	690	699	+9
IEC D	60	60	0
IEC L	140	140	0
RZ D	38	38	0
H	225	225	0
A	356	356	0
B	311	311	0
D	149	149	0
K	18.5	18.5	0
AB	414	414	0
BB	371	371	0
C	47	35	–12
V	155	220	+65
VB	168	220	+52
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	283	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	283	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	291	79	–212
GB /E	136	79	–57
GV /E+/V	415	280	–135
GVB /E+/V	259	280	+21

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.52 D(F)V250M4 ↔ DRS225MC4, 55 kW, 50 Hz



3.52.1 Technical data

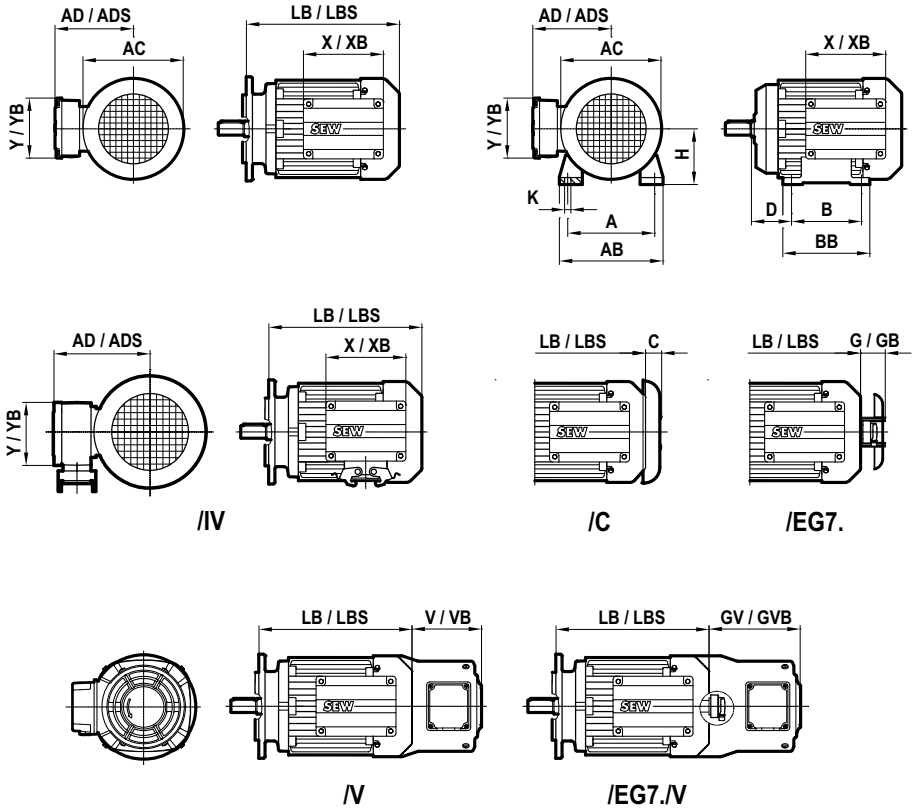
55 kW / 50 Hz	DV250M4	DRS225MC4	
M_N[Nm]	356	355	–0.3%
n_N [rpm]	1475	1480	0.3%
M_A/M_N	2.7	2.3	–14.8%
M_H/M_N	2	1.6	–20.0%
I_N [A]	106	105	–0.9%
I_A/I_N	6	7.3	21.7%
cos φ	0.83	0.81	–2.4%
η 75% A [%]	94	92.8	–1.3%
η 100% A [%]	93.8	92.4	–1.5%
η 75% B [%]	94	93.8	–0.2%
η 100% B [%]	93.8	93.4	–0.4%
J_{Mot} [10^{-4} kgm²]	6300	4330	–31.3%
J_{BMot} [10^{-4} kgm²]	6600	–	–
J_{2BMot} [10^{-4} kgm²]	6730	4560	–32.2%
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	448	330	–26.3%
m_{BMot} [kg]	528	–	–
m_{2BMot} [kg]	538	375	–30.3%
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	200	200	0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	95	–

3.52.2 Dimensioning [mm]

55 kW / 50 Hz	DV250M4	DRS225MC4	
AC	510	394	–116
AD	397	283	–114
ADS	397	283	–114
AE[1)]	–	–	–
X	336	182	–154
Y	336	152	–184
XB	336	182	–154
YB	336	152	–184
LB	772	706	–66
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	712	–
LB LIA350	–	706	–
LB L08400	789	699	–90
LB L08450	780	691	–89
LB L08550	771	683	–88
Delta LBS	185	220	+35
LB FF	772	699	–73
IEC D	65	65	0
IEC L	140	140	0
RZ D	48	48	0
H	280	225	–55
A	457	356	–101
B	368	311	–57
D	190	149	–41
K	22	18.5	–3.5
AB	535	414	–121
BB	438	371	–67
C	35	35	0
V	185	220	+35
VB	155	220	+65
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	283	–
X /IV	–	182	–
Y /IV	–	152	–
ADS /IV	–	283	–
XB /IV	–	182	–
YB /IV	–	152	–
G /E	185	79	–106
GB /E	155	79	–76
GV /E+/V	185	280	+95
GVB /E+/V	155	280	+125

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.53 D(F)V280M4 ↔ DRP315K4, 90 kW, 50 Hz



3.53.1 Technical data

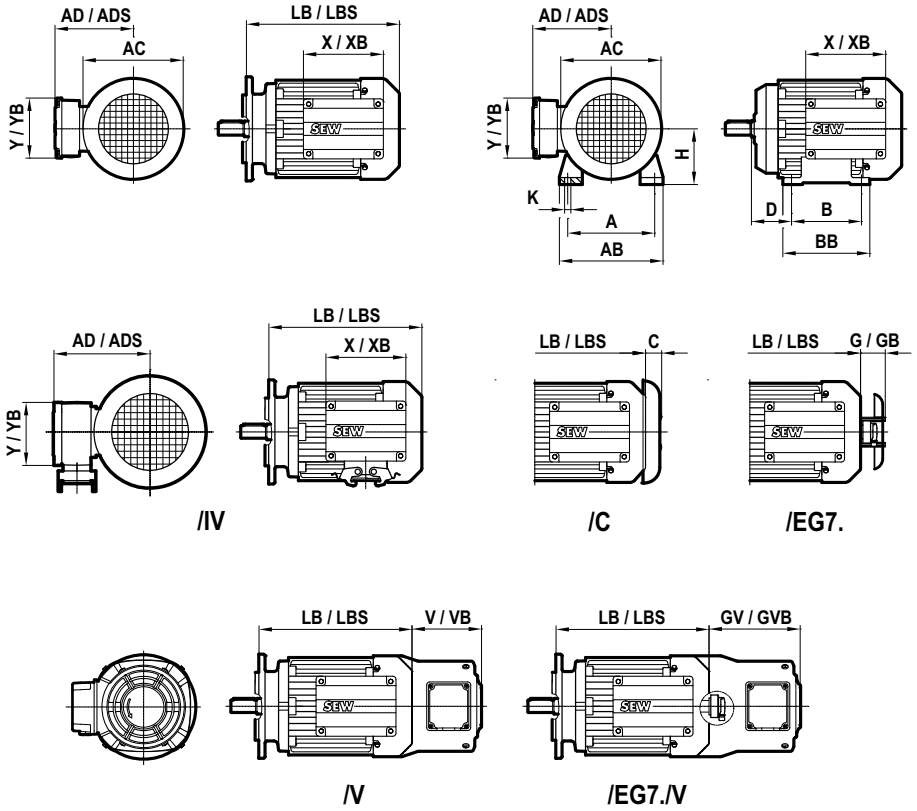
90 kW / 50 Hz	DV280M4	DRP315K4	
M_N[Nm]	581	580	–0.2%
n_N [rpm]	1480	1484	0.3%
M_A/M_N	3.3	2.4	–27.3%
M_H/M_N	2.2	1.9	–13.6%
I_N [A]	173	159	–8.1%
I_A/I_N	7.1	6.7	–5.6%
cos φ	0.81	0.86	6.2%
η 75% A [%]	94.4	95.1	0.7%
η 100% A [%]	94.3	95.2	1.0%
η 75% B [%]	94.4	95.1	0.7%
η 100% B [%]	94.3	95.2	1.0%
J_{Mot} [10^{-4} kgm²]	8925	18400	106.2%
J_{BMot} [10^{-4} kgm²]	9225	–	–
J_{2BMot} [10^{-4} kgm²]	9355	19500	108.4%
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	520	850	63.5%
m_{BMot} [kg]	600	–	–
m_{2BMot} [kg]	610	1000	63.9%
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	100	65	–35.0%
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	60	–

3.53.2 Dimensioning [mm]

90 kW / 50 Hz	DV280M4	DRP315K4	
AC	510	624	+114
AD	397	505.5	+108.5
ADS	397	505.5	+108.5
AE[1)]	–	–	–
X	336	376	+40
Y	336	354	+18
XB	336	376	+40
YB	336	354	+18
LB	772	941	+169
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	780	–	–
LB L08550	771	941	+170
Delta LBS	185	251	+66
LB FF	772	941	+169
IEC D	75	80	+5
IEC L	140	170	+30
RZ D	48	55	+7
H	280	315	+35
A	457	508	+51
B	368	457	+89
D	190	216	+26
K	22	28	+6
AB	535	638	+103
BB	438	538	+100
C	35	38.5	+3.5
V	185	244.5	+59.5
VB	155	202.5	+47.5
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	185	128	–57
GB /E	155	128	–27
GV /E+/V	185	244.5	+59.5
GVB /E+/V	155	202.5	+47.5

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.54 D315S4 ↔ DRS315K4, 110 kW, 50 Hz



3.54.1 Technical data

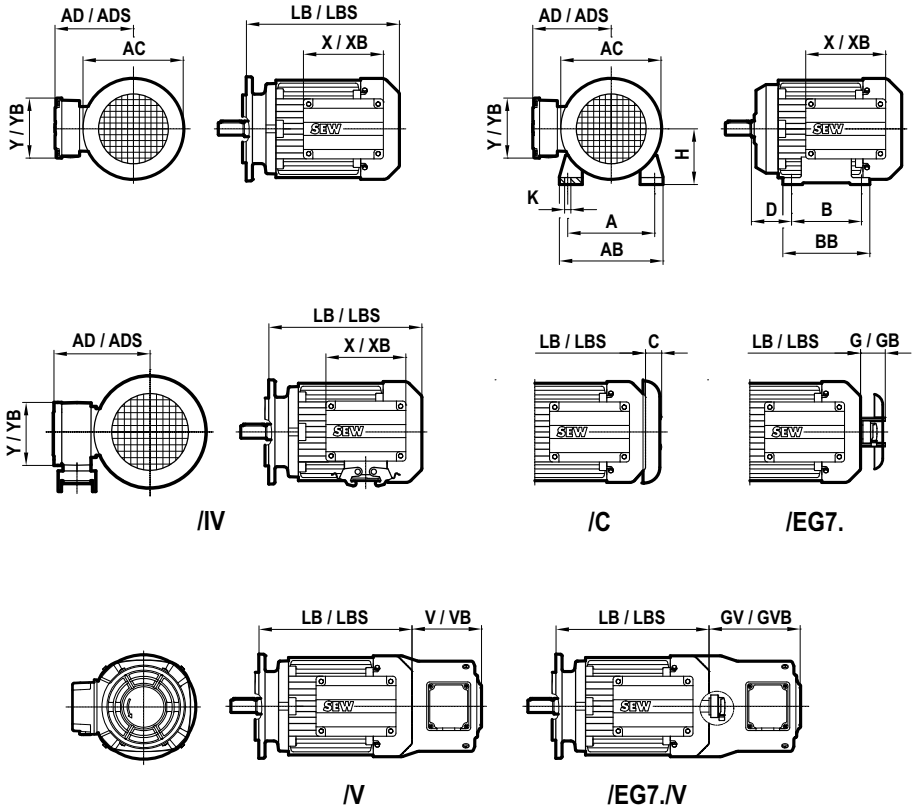
110 kW / 50 Hz	D315S4	DRS315K4	
M_N[Nm]	710	710	0%
n_N [rpm]	1485	1482	–0.2%
M_A/M_N	–	2.2	–
M_H/M_N	–	1.7	–
I_N [A]	202	200	–1.0%
I_A/I_N	6.8	6.1	–10.3%
cos φ	0.86	0.84	–2.3%
η 75% A [%]	–	94.5	–
η 100% A [%]	92	94.3	2.5%
η 75% B [%]	–	94.5	–
η 100% B [%]	92	94.5	2.7%
J_{Mot} [10^{-4} kgm²]	20900	18400	–12.0%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	19500	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	940	850	–9.6%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1000	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	65	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	75	–

3.54.2 Dimensioning [mm]

110 kW / 50 Hz	D315S4	DRS315K4	
AC	612	624	+12
AD	441	505.5	+64.5
ADS	441	505.5	+64.5
AE[1)]	–	–	–
X	283	376	+93
Y	303	354	+51
XB	283	376	+93
YB	303	354	+51
LB	936	941	+5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	941	–
Delta LBS	–	251	–
LB FF	–	941	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	55	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.55 D315S4 ↔ DRE315K4, 110 kW, 50 Hz



3.55.1 Technical data

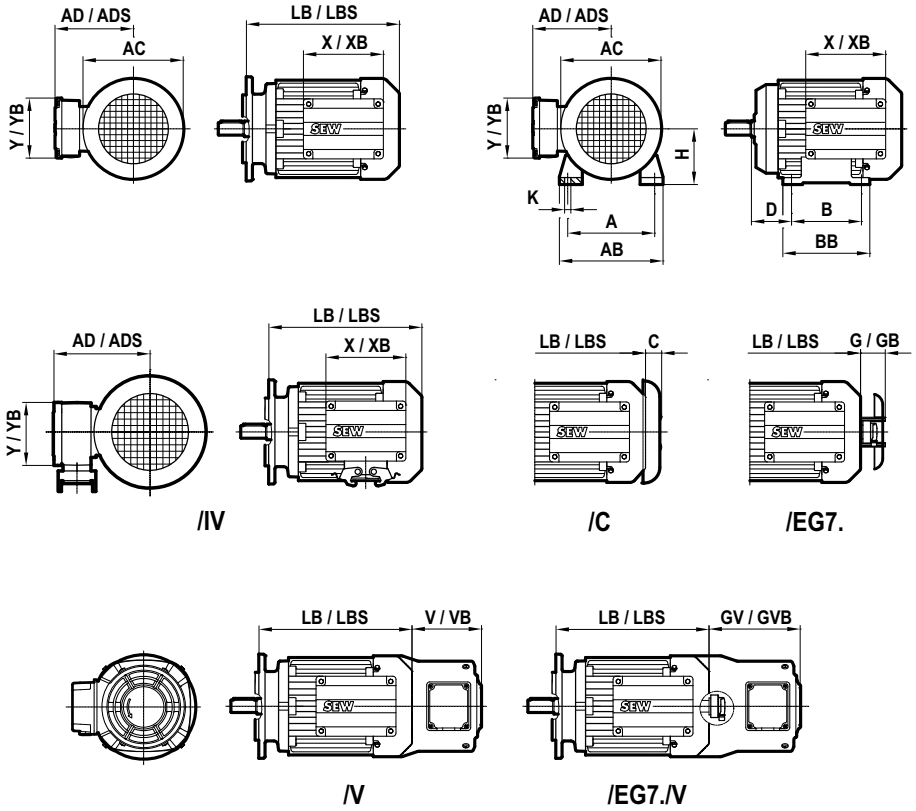
110 kW / 50 Hz	D315S4	DRE315K4	
M_N[Nm]	710	710	0%
n_N [rpm]	1485	1483	–0.1%
M_A/M_N	–	2.3	–
M_H/M_N	–	1.8	–
I_N [A]	202	196	–3.0%
I_A/I_N	6.8	6	–11.8%
cos φ	0.86	0.85	–1.2%
η 75% A [%]	–	95.2	–
η 100% A [%]	92	95	3.3%
η 75% B [%]	–	95.2	–
η 100% B [%]	92	95.2	3.5%
J_{Mot} [10^{-4} kgm²]	20900	18400	–12.0%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	19500	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	940	850	–9.6%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1000	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	65	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	75	–

3.55.2 Dimensioning [mm]

110 kW / 50 Hz	D315S4	DRE315K4	
AC	612	624	+12
AD	441	505.5	+64.5
ADS	441	505.5	+64.5
AE[1)]	–	–	–
X	283	376	+93
Y	303	354	+51
XB	283	376	+93
YB	303	354	+51
LB	936	941	+5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	941	–
Delta LBS	–	251	–
LB FF	–	941	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	55	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.56 D315S4 ↔ DRP315S4, 110 kW, 50 Hz



3.56.1 Technical data

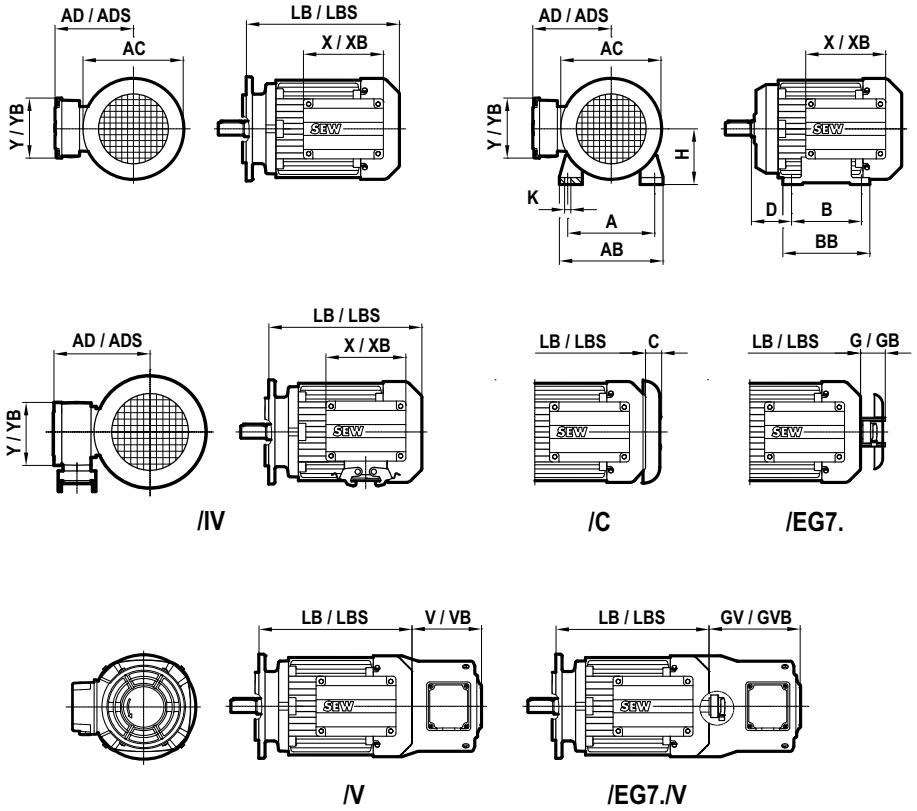
110 kW / 50 Hz	D315S4	DRP315S4	
M_N[Nm]	710	710	0%
n_N [rpm]	1485	1486	0.1%
M_A/M_N	–	2.3	–
M_H/M_N	–	1.8	–
I_N [A]	202	192	–5.0%
I_A/I_N	6.8	7.1	4.4%
cos φ	0.86	0.87	1.2%
η 75% A [%]	–	95.6	–
η 100% A [%]	92	95.5	3.8%
η 75% B [%]	–	95.7	–
η 100% B [%]	92	95.7	4.0%
J_{Mot} [10^{-4} kgm²]	20900	22500	7.7%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	23600	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	940	930	–1.1%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1080	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	50	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	50	–

3.56.2 Dimensioning [mm]

110 kW / 50 Hz	D315S4	DRP315S4	
AC	612	624	+12
AD	441	505.5	+64.5
ADS	441	505.5	+64.5
AE[1)]	–	–	–
X	283	376	+93
Y	303	354	+51
XB	283	376	+93
YB	303	354	+51
LB	936	941	+5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	941	–
Delta LBS	–	251	–
LB FF	–	941	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	55	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.57 D315M4 ↔ DRS315S4, 132 kW, 50 Hz



3.57.1 Technical data

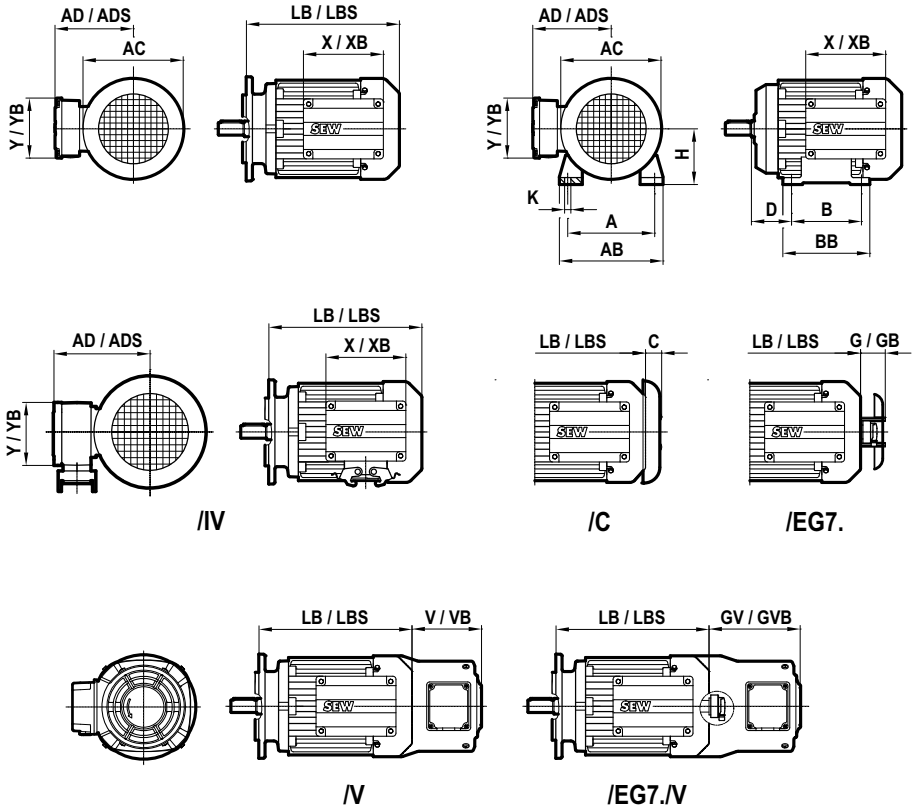
132 kW / 50 Hz	D315M4	DRS315S4	
M_N[Nm]	847	850	0.4%
n_N [rpm]	1490	1484	–0.4%
M_A/M_N	–	2.3	–
M_H/M_N	–	1.8	–
I_N [A]	241	235	–2.5%
I_A/I_N	7.6	6.4	–15.8%
cos φ	0.85	0.85	0%
η 75% A [%]	–	94.5	–
η 100% A [%]	93	94.5	1.6%
η 75% B [%]	–	95.3	–
η 100% B [%]	93	95.4	2.6%
J_{Mot} [10^{-4} kgm²]	31200	22500	–27.9%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	23600	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	1045	930	–11.0%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1080	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	50	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	75	–

3.57.2 Dimensioning [mm]

132 kW / 50 Hz	D315M4	DRS315S4	
AC	612	624	+12
AD	441	505.5	+64.5
ADS	441	505.5	+64.5
AE[1)]	–	–	–
X	283	376	+93
Y	303	354	+51
XB	283	376	+93
YB	303	354	+51
LB	936	941	+5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	941	–
Delta LBS	–	251	–
LB FF	–	941	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	55	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.58 D315M4 ↔ DRE315S4, 132 kW, 50 Hz



3.58.1 Technical data

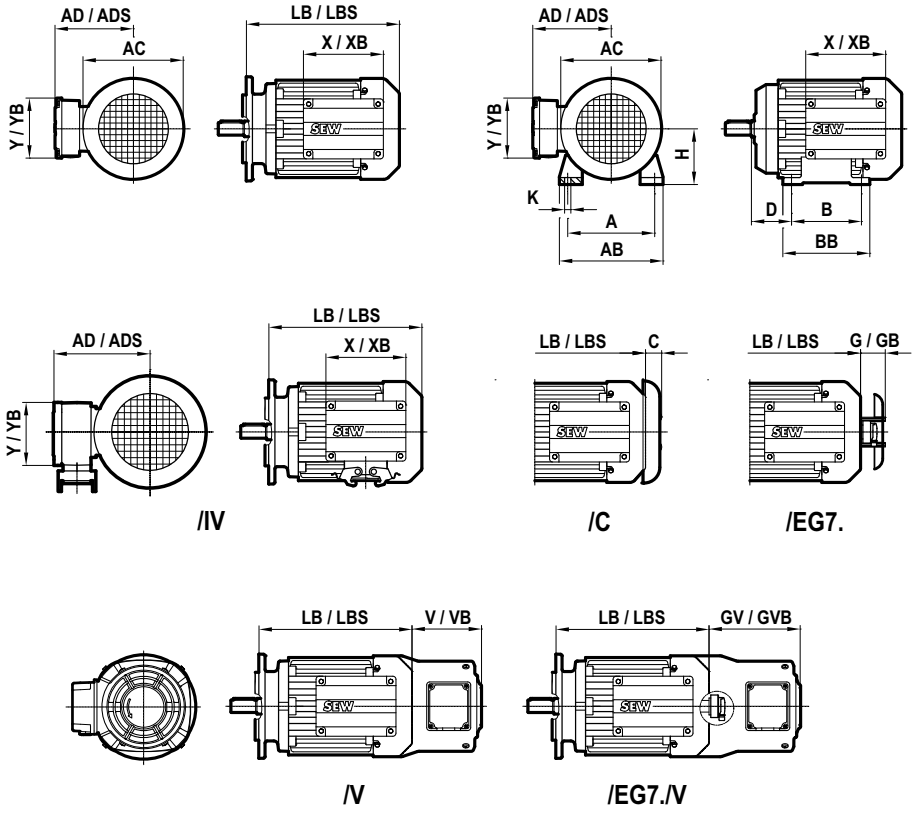
132 kW / 50 Hz	D315M4	DRE315S4	
M_N[Nm]	847	850	0.4%
n_N [rpm]	1490	1486	–0.3%
M_A/M_N	–	2.4	–
M_H/M_N	–	1.9	–
I_N [A]	241	230	–4.6%
I_A/I_N	7.6	6.5	–14.5%
cos φ	0.85	0.86	1.2%
η 75% A [%]	–	95.3	–
η 100% A [%]	93	95.3	2.5%
η 75% B [%]	–	95.3	–
η 100% B [%]	93	95.4	2.6%
J_{Mot} [10^{-4} kgm²]	31200	22500	–27.9%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	23600	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	1045	930	–11.0%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1080	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	50	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	75	–

3.58.2 Dimensioning [mm]

132 kW / 50 Hz	D315M4	DRE315S4	
AC	612	624	+12
AD	441	505.5	+64.5
ADS	441	505.5	+64.5
AE[1)]	–	–	–
X	283	376	+93
Y	303	354	+51
XB	283	376	+93
YB	303	354	+51
LB	936	941	+5
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	941	–
Delta LBS	–	251	–
LB FF	–	941	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	55	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.59 D315M4 ↔ DRP315M4, 132 kW, 50 Hz



3.59.1 Technical data

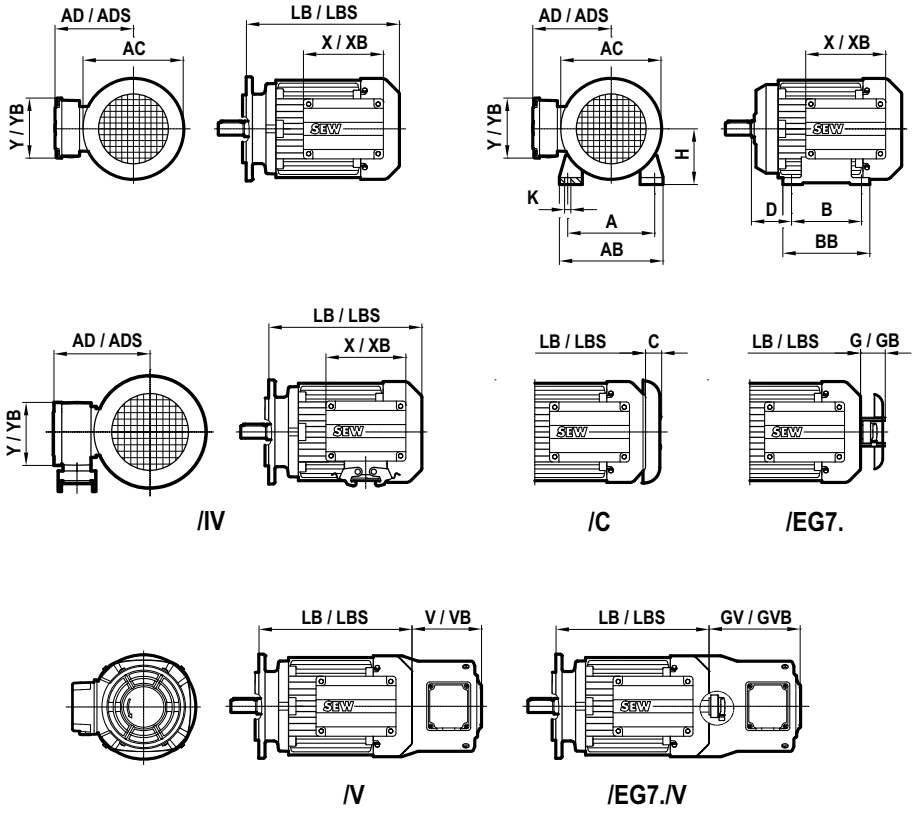
132 kW / 50 Hz	D315M4	DRP315M4	
M_N[Nm]	847	850	0.4%
n_N [rpm]	1490	1488	–0.1%
M_A/M_N	–	2.5	–
M_H/M_N	–	2	–
I_N [A]	241	230	–4.6%
I_A/I_N	7.6	8.1	6.6%
cos φ	0.85	0.87	2.4%
η 75% A [%]	–	95.6	–
η 100% A [%]	93	95.6	2.8%
η 75% B [%]	–	95.7	–
η 100% B [%]	93	95.8	3.0%
J_{Mot} [10^{-4} kgm²]	31200	27900	–10.6%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	29000	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	1045	1090	4.3%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1230	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	35	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	55	–

3.59.2 Dimensioning [mm]

132 kW / 50 Hz	D315M4	DRP315M4	
AC	612	624	+12
AD	441	520	+79
ADS	441	520	+79
AE[1)]	–	–	–
X	283	420	+137
Y	303	420	+117
XB	283	420	+137
YB	303	420	+117
LB	936	1071	+135
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	1113	–
Delta LBS	–	251	–
LB FF	–	1071	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	68	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.60 D315M4 ↔ DRS315M4, 160 kW, 50 Hz



3.60.1 Technical data

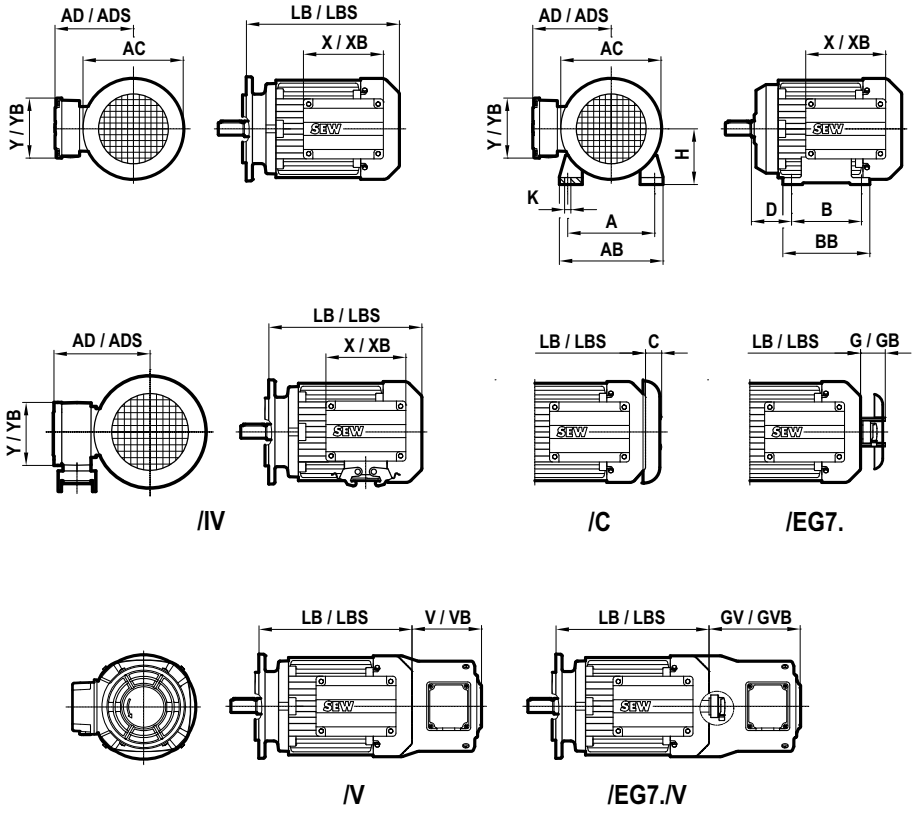
160 kW / 50 Hz	D315M4	DRS315M4	
M_N[Nm]	1025	1030	0.5%
n_N [rpm]	1490	1483	–0.5%
M_A/M_N	–	2.1	–
M_H/M_N	–	1.7	–
I_N [A]	298	280	–6.0%
I_A/I_N	6	6.9	15.0%
cos φ	0.82	0.87	6.1%
η 75% A [%]	–	95.1	–
η 100% A [%]	94.5	94.9	0.4%
η 75% B [%]	–	95.1	–
η 100% B [%]	94.5	95.1	0.6%
J_{Mot} [10^{-4} kgm²]	40500	27900	–31.1%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	29000	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	1140	1090	–4.4%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1230	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	35	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	75	–

3.60.2 Dimensioning [mm]

160 kW / 50 Hz	D315M4	DRS315M4	
AC	612	624	+12
AD	441	520	+79
ADS	441	520	+79
AE[1)]	–	–	–
X	283	420	+137
Y	303	420	+117
XB	283	420	+137
YB	303	420	+117
LB	936	1071	+135
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	1113	–
Delta LBS	–	251	–
LB FF	–	1071	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	68	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.61 D315M4 ↔ DRE315M4, 160 kW, 50 Hz



3.61.1 Technical data

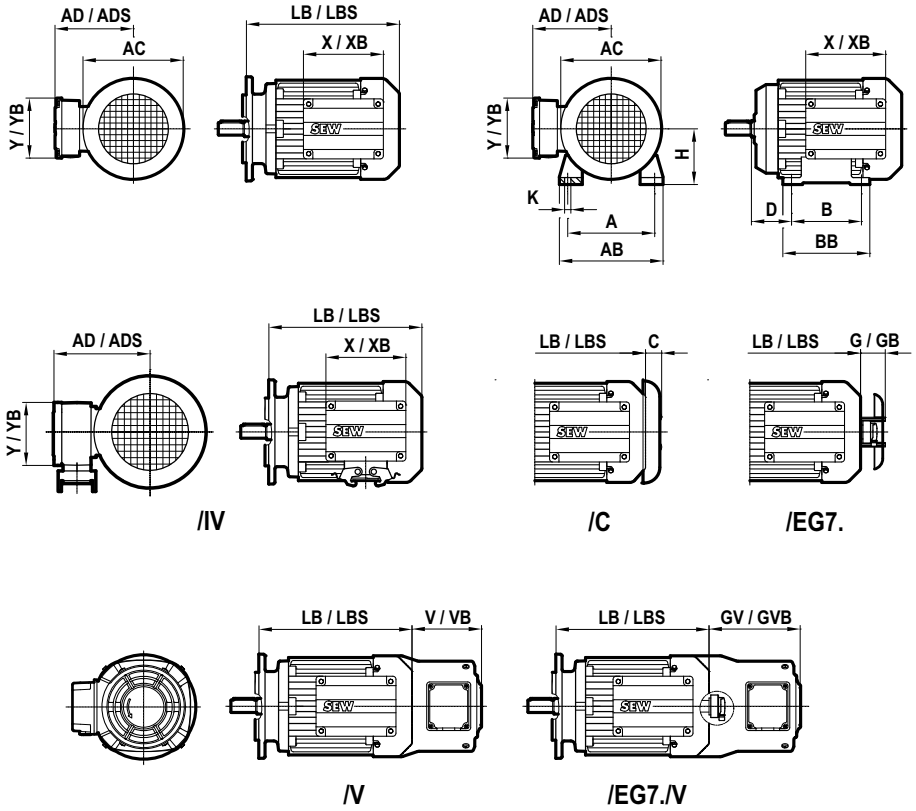
160 kW / 50 Hz	D315M4	DRE315M4	
M_N[Nm]	1025	1030	0.5%
n_N [rpm]	1490	1484	–0.4%
M_A/M_N	–	2.2	–
M_H/M_N	–	1.8	–
I_N [A]	298	275	–7.7%
I_A/I_N	6	6.8	13.3%
cos φ	0.82	0.88	7.3%
η 75% A [%]	–	95.7	–
η 100% A [%]	94.5	95.5	1.1%
η 75% B [%]	–	95.7	–
η 100% B [%]	94.5	95.7	1.3%
J_{Mot} [10^{-4} kgm²]	40500	27900	–31.1%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	29000	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	1140	1090	–4.4%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1230	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	35	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	75	–

3.61.2 Dimensioning [mm]

160 kW / 50 Hz	D315M4	DRE315M4	
AC	612	624	+12
AD	441	520	+79
ADS	441	520	+79
AE[1)]	–	–	–
X	283	420	+137
Y	303	420	+117
XB	283	420	+137
YB	303	420	+117
LB	936	1071	+135
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	1113	–
Delta LBS	–	251	–
LB FF	–	1071	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	68	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.62 D315M4 ↔ DRP315L4, 160 kW, 50 Hz



3.62.1 Technical data

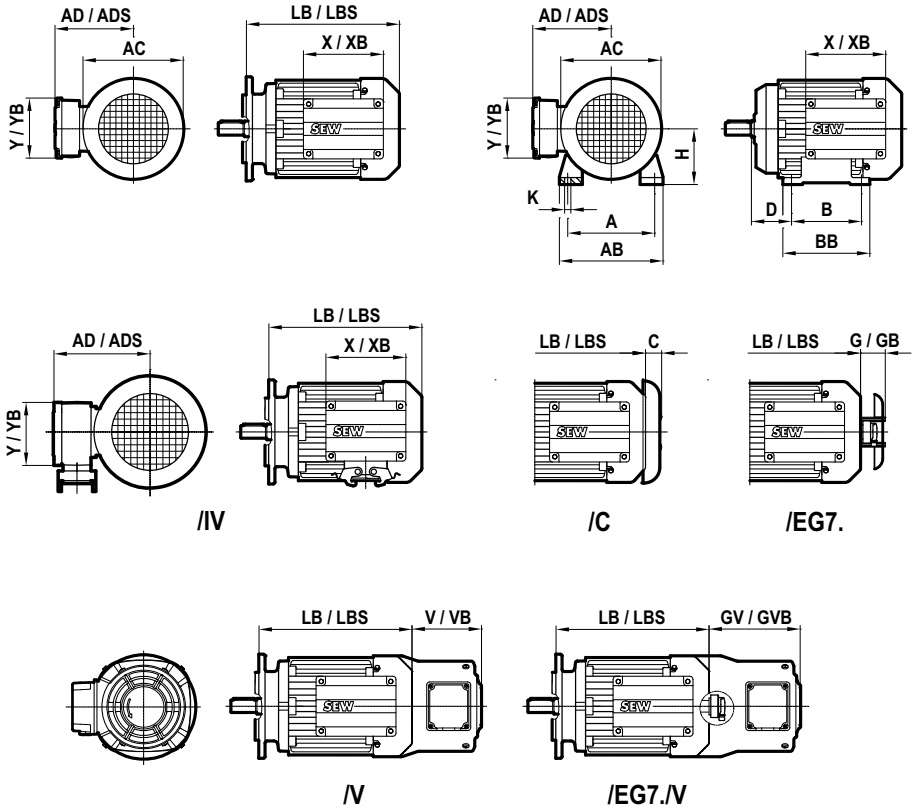
160 kW / 50 Hz	D315M4	DRP315L4	
M_N[Nm]	1025	1030	0.5%
n_N [rpm]	1490	1488	–0.1%
M_A/M_N	–	2.8	–
M_H/M_N	–	2.2	–
I_N [A]	298	275	–7.7%
I_A/I_N	6	8	33.3%
cos φ	0.82	0.88	7.3%
η 75% A [%]	–	96	–
η 100% A [%]	94.5	96.1	1.7%
η 75% B [%]	–	95.9	–
η 100% B [%]	94.5	96.1	1.7%
J_{Mot} [10^{-4} kgm²]	40500	31900	–21.2%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	33000	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	1140	1170	2.6%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1310	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	25	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	70	–

3.62.2 Dimensioning [mm]

160 kW / 50 Hz	D315M4	DRP315L4	
AC	612	624	+12
AD	441	520	+79
ADS	441	520	+79
AE[1)]	–	–	–
X	283	420	+137
Y	303	420	+117
XB	283	420	+137
YB	303	420	+117
LB	936	1071	+135
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	1113	–
Delta LBS	–	251	–
LB FF	–	1071	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	68	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.63 D315M4 ↔ DRS315L4, 200 kW, 50 Hz



3.63.1 Technical data

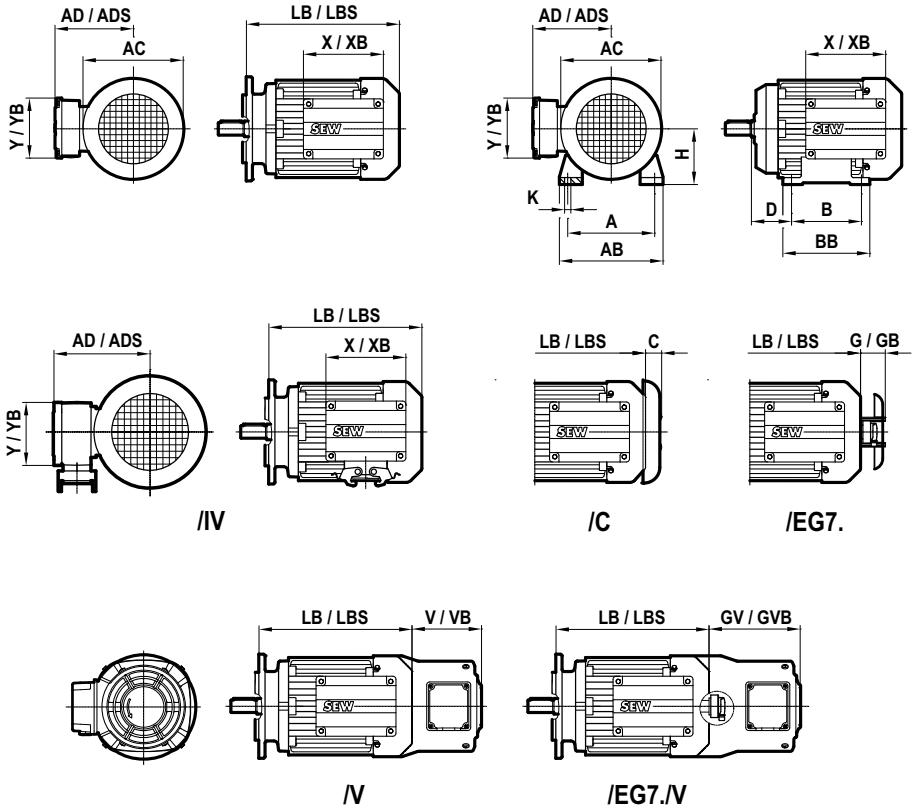
200 kW / 50 Hz	D315M4	DRS315L4	
M_N[Nm]	1286	1290	0.3%
n_N [rpm]	1485	1481	–0.3%
M_A/M_N	–	2.1	–
M_H/M_N	–	1.7	–
I_N [A]	352	350	–0.6%
I_A/I_N	5.9	6.4	8.5%
cos φ	0.87	0.88	1.1%
η 75% A [%]	–	95.2	–
η 100% A [%]	94.8	94.9	0.1%
η 75% B [%]	–	95	–
η 100% B [%]	94.8	95.2	0.4%
J_{Mot} [10^{-4} kgm²]	42540	31900	–25.0%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	33000	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	1240	1170	–5.6%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1310	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	25	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	95	–

3.63.2 Dimensioning [mm]

200 kW / 50 Hz	D315M4	DRS315L4	
AC	612	624	+12
AD	441	520	+79
ADS	441	520	+79
AE[1)]	–	–	–
X	283	420	+137
Y	303	420	+117
XB	283	420	+137
YB	303	420	+117
LB	936	1071	+135
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	1113	–
Delta LBS	–	251	–
LB FF	–	1071	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	68	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

3.64 D315M4 ↔ DRE315L4, 200 kW, 50 Hz



3.64.1 Technical data

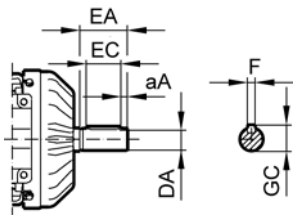
200 kW / 50 Hz	D315M4	DRE315L4	
M_N[Nm]	1286	1290	0.3%
n_N [rpm]	1485	1482	–0.2%
M_A/M_N	–	2.2	–
M_H/M_N	–	1.8	–
I_N [A]	352	345	–2.0%
I_A/I_N	5.9	6.3	6.8%
cos φ	0.87	0.89	2.3%
η 75% A [%]	–	95.8	–
η 100% A [%]	94.8	95.4	0.6%
η 75% B [%]	–	95.9	–
η 100% B [%]	94.8	95.7	0.9%
J_{Mot} [10^{-4} kgm²]	42540	31900	–25.0%
J_{BMot} [10^{-4} kgm²]	–	–	–
J_{2BMot} [10^{-4} kgm²]	–	33000	–
J_{Mot+JZ} [10^{-4} kgm²]	–	–	–
m_{Mot} [kg]	1240	1170	–5.6%
m_{BMot} [kg]	–	–	–
m_{2BMot} [kg]	–	1310	–
Z_{0BG} [1/h]	–	–	–
Z_{0BGE} [1/h]	–	25	–
Z_{0BGE_2} [1/h]	–	–	–
S1 temp. [K]	–	95	–

3.64.2 Dimensioning [mm]

200 kW / 50 Hz	D315M4	DRE315L4	
AC	612	624	+12
AD	441	520	+79
ADS	441	520	+79
AE[1)]	–	–	–
X	283	420	+137
Y	303	420	+117
XB	283	420	+137
YB	303	420	+117
LB	936	1071	+135
LB B9	–	–	–
LB LIA120	–	–	–
LB LIA160	–	–	–
LB LIA200	–	–	–
LB LIA250	–	–	–
LB LIA300	–	–	–
LB LIA350	–	–	–
LB L08400	–	–	–
LB L08450	–	–	–
LB L08550	–	1113	–
Delta LBS	–	251	–
LB FF	–	1071	–
IEC D	–	80	–
IEC L	–	170	–
RZ D	–	68	–
H	–	315	–
A	–	508	–
B	–	457	–
D	–	216	–
K	–	28	–
AB	–	638	–
BB	–	538	–
C	–	38.5	–
V	–	244.5	–
VB	–	202.5	–
AD /IS	–	–	–
X /IS	–	–	–
Y /IS	–	–	–
AD /IV	–	–	–
X /IV	–	–	–
Y /IV	–	–	–
ADS /IV	–	–	–
XB /IV	–	–	–
YB /IV	–	–	–
G /E	–	128	–
GB /E	–	128	–
GV /E+/V	–	244.5	–
GVB /E+/V	–	202.5	–

1) The AE dimension can be comapered with to the AC dimension of the DT/DV motor

4 2nd Shaft End /2W – Dimensions



4.1 Dimensioning [mm]

DT/DV	DR	DT/DV						DR					
Size		DA	EA	EC	aA	GC	F	DA	EA	EC	aA	GC	F
71D	71S	11	23	20	1	12.5	4	11	23	16	3.5	12.5	4
80K	71M	11	23	22	4	16	5	11	23	16	3.5	12.5	4
80N	80S	14	30	22	4	16	5	14	30	22	4	16	5
90S	80M	19	40	32	4	21.5	6	14	30	22	4	16	5
90L	90M	19	40	32	4	21.5	6	14	30	22	4	16	5
100M	90L	19	40	32	4	21.5	6	14	30	22	4	16	5
100L	100M	19	40	32	4	21.5	6	14	30	22	4	16	5
112M	100LC	24	50	40	5	27	8	14	30	22	4	16	5
	112M							19	40	32	4	21.5	6
132S	132S	28	60	50	5	31	8	19	40	32	4	21.5	6
132M	132M	38	80	70	5	41	10	19	40	32	4	21.5	6
132ML	132MC	38	80	70	5	41	10	19	40	32	4	21.5	6
	160S							28	60	50	5	31	8
160M	160M	38	80	70	5	41	10	28	60	50	5	31	8
160L	160MC	42	110	70	10	45	12	28	60	50	5	31	8
	180S							38	80	70	5	41	10
180M	180M	48	110	80	10	51.5	14	38	80	70	5	41	10
180L	180L	48	110	80	10	51.5	14	38	80	70	5	41	10
200L	180LC	55	110	90	10	59	16	38	80	70	5	41	10
225S	225S	55	110	90	10	59	16	48	110	100	5	51.5	14
225M	225M	55	110	90	10	59	16	48	110	100	5	51.5	14
250M	225MC	55	110	90	10	59	16	48	110	100	5	51.5	14
280S	–	55	110	90	10	59	16	–	–	–	–	–	–
280M	–	55	110	90	10	59	16	–	–	–	–	–	–
–	315K	–	–	–	–	–	–	70	140	125	7.5	74.5	20
–	315S	–	–	–	–	–	–	70	140	125	7.5	74.5	20
–	315M	–	–	–	–	–	–	70	140	125	7.5	74.5	20
–	315L	–	–	–	–	–	–	70	140	125	7.5	74.5	20

5 Notes on Minimum Efficiency Requirements

Selling or marketing complete motors in Europe is restricted by the export regulations of the EuP Directive 2005/32/EC as follows:

- IE1 motors (except brakemotors and/or Ex motors) only until June 15, 2011
- IE2 motors (except motors that are operated with a frequency inverter) in the range of 7.5 kW to 375 kW only until December 31, 2014
- IE2 motors (except motors that are operated with a frequency inverter) in the range of 0.75 kW to < 7.5 kW only until December 31, 2016
- IE3 motors without restrictions
- IE2 motors operated with a frequency inverter labeled for frequency inverter operation (e.g. "VSD use only"), without restrictions
- IE1 and IE2 motors with brake without restrictions (this point is currently being discussed)
- IE1 and IE2 motors in explosion-proof design (EEx n, EEx e, EEx d) without restrictions

These regulations apply to all deliveries of complete motors (including replacement drives) from SEW (including deliveries from the service centers and Eurodrives) to an address within the European Union even if the actual machine is intended to be used outside the EU. The date on the delivery note is decisive.

Motors that have already been delivered to a third party by the specified date, may remain in operation without restrictions. That also applies to motors that are stored at the customer's until they are used (commission stocks included)

Mere repairs using old parts, as well as deliveries of motor components (stator, rotor, brake, endshields, fan, ...) are not affected.

6 Abbreviations

6.1 Key to the technical data

M_N	Nominal torque
M_{N_2}	Nominal torque of the 2. pole number
n_N	Nominal speed
n_{N_2}	Nominal speed of the 2. pole number
M_A/M_N	Starting torque ratio
M_A/M_{N_2}	Starting torque ratio of the 2. pole number
M_H/M_N	Acceleration torque ratio
M_H/M_{N_2}	Acceleration torque ratio of the 2. pole number
I_N	Nominal current
I_{N_2}	Nominal current of the 2. pole number
I_A/I_N	Starting current ratio
I_A/I_{N_2}	Starting current ratio of the 2. pole number
cos φ	Power factor
cos φ_2	Power factorr of the 2. pole number
η 75% A	Efficiency at 75% of the nominal load according to IEC 60034-2-1 (2007)
η 100% A	Efficiency at 100% of the nominal load according to IEC 60034-2-1 (2007)
η 75% B	Efficiency at 75% of the nominal load according to IEC 60034-2 (1972)
η 100% B	Efficiency at 100% of the nominal load according to IEC 60034-2 (1972)
J_{Mot}	Mass inertia of the motor
J_{BMot}	Mass inertia of the brakemotor
J_{2BMot}	Mass inertia of the double disk brakemotor
$J_{Mot + JZ}$	Mass inertia of the motor with heavy fan
m_{Mot}	Weight of the motor
m_{BMot}	Weight of the brakemotor
m_{2BMot}	Weight of the double disk brakemotor
M_B	Nominal braking torque
Z_{0BG}	Starting frequency with BG
Z_{0BG_2}	Starting frequency of hte 2. pole number with BG
Z_{0BGE}	Starting frequency with BGE
Z_{0BGE_2}	Starting frequency of the 2. pole number with BGE
S1 temp.	Basic heating in S1 operation

6.2 Key to the dimensioning

AC	Outer dimension of the fan guard
AD	Distance between the shaft center and the terminal box cover
ADS	Distance between the shaft center and the brake terminal box cover
AE	Diagonal dimension of the octagonal DR. fan guard
X	Length of the terminal box
Y	Height of the terminal box
XB	Length of the brake terminal box
YB	Height of the brake terminal box
LB	Length between the flange contact surface and the end of the fan guard (gearmotor)
LB B9	Length between the stator contact surface and the end of the fan guard (gearmotor)
LB LIA120	LB with 7er gear unit flange with D120
LB LIA160	LB with 7er gear unit flange with D160
LB LIA200	LB with 7er gear unit flange with D200
LB LIA250	LB with 7er gear unit flange with D250
LB LIA300	LB with 7er gear unit flange with D300
LB LIA350	LB with 7er gear unit flange with D350
LB L08400	LB with 7er gear unit flange with D400
LB L08450	LB with 7er gear unit flange with D450
LB L08550	LB with 7er gear unit flange with D550
Delta LBS	Length difference – brakemotor
LB FF	Length between the flange contact surface and the end of the fan guard (IEC motor)
IEC D	Diameter of the IEC shaft end
IEC L	Length of the IEC shaft end
RZ D	Diameter of pinion shaft end
H	Distance between the shaft center and the foot contact surface (shaft height)
A	Mean size of the foot mounting bores orthogonal to the motor shaft
B	Mean size of the foot mounting bores parallel to the motor shaft
D	Distance between teh center of the fron foot bore and the shaft contact shoulder
K	Diammeter of the foot bores
AB	Width of the foot orthogonal to the motor shaft
BB	Length of the foot paralell to the motor shaft
C	Additional length with mounted canopy
V	Additional length with mounted forced-cooling fan
VB	Additional length with forced-cooling fan mounted to brakemotor
AD /IS	Distance between shaft center and terminal box cover (motor + /IS)
X /IS	Length of the terminal box (motor + /IS)
Y /IY	Height of the terminal box (motor + /IS)
AD /IV	Distance between shaft center and terminal box cover (motor + connector)
X /IV	Length of the terminal box (motor + connector)
Y /IV	Height of the terminal box (motor + connector)
ADS /IV	Distance between shaft center and terminal box cover (brakemotor + connector)
XB /IV	Length of the terminal box (brakemotor + connector)
YB /IV	Height of the terminal box (brakemotor + connector)
G /E	Additional length with mounted standard encoder
GB /E	Additional length with mounted standard encoder (brakemotor)
GV /E+/V	Additional length with mounted standard encoder + forced-cooling fan
GVB /E+/V	Additional length with mounted standard encoder + forced-cooling fan (brakemotor)

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