



**RATINGS BOOK**  
**BRUSHLESS ALTERNATORS WITH AVR**  
**07-22**

## **RATINGS BOOK - BRUSHLESS ALTERNATORS WITH AVR**

4 POLES - 1500RPM - 50HZ - 3PHASE - 380V	4
4 POLES - 1500RPM - 50HZ - 3PHASE - 400V	5
4 POLES - 1500RPM - 50HZ - 3PHASE - 415V	6
4 POLES - 1500RPM - 50HZ - 3PHASE - 440V	7
4 POLES - 1500RPM - 50HZ - 1PHASE RECONNECTED -220V	8
4 POLES - 1500RPM - 50HZ - 1PHASE RECONNECTED -230V	9
4 POLES - 1500RPM - 50HZ - 1PHASE RECONNECTED -240V	10
4 POLES - 1500RPM - 50HZ - 1PHASE RECONNECTED -254V	11
4 POLES - 1500RPM - 50HZ - 1PHASE DEDICATED -230V	12
4 POLES - 1800RPM - 60HZ - 3PHASE - 415V	13
4 POLES - 1800RPM - 60HZ - 3PHASE - 440V	14
4 POLES - 1800RPM - 60HZ - 3PHASE - 460V	15
4 POLES - 1800RPM - 60HZ - 3PHASE - 480V	16
4 POLES - 1800RPM - 60HZ - 1PHASE RECONNECTED - 240V	17
4 POLES - 1800RPM - 60HZ - 1PHASE RECONNECTED - 254V	18
4 POLES - 1800RPM - 60HZ - 1PHASE RECONNECTED - 266V	19
4 POLES - 1800RPM - 60HZ - 1PHASE RECONNECTED - 277V	20
4 POLES - 1800RPM - 60HZ - 1PHASE DEDICATED - 240V	21
CONNECTION DIAGRAMS	22



LINZ ELECTRIC S.p.A., azienda del gruppo Pedrollo, è specializzata nella produzione di alternatori e macchine rotanti. Fondata nel 2002 Linz Electric è diventata in pochi anni un'importante realtà nel settore grazie alla decennale esperienza dei propri progettisti, alla forte propensione all'innovazione e ad una predisposizione naturale verso gli investimenti che hanno permesso di sviluppare una gamma completa di prodotti Made in Italy i cui elevati standard qualitativi sono riconosciuti e apprezzati in tutto il mondo dai principali costruttori di gruppi elettrogeni. I valori fondanti dell'azienda sono orientati verso la Centralità del Cliente tramite la notevole flessibilità garantita dalla forte integrazione verticale dei processi produttivi, la qualità del Prodotto e l'eccellenza del Servizio.

LINZ ELECTRIC S.p.A., part of the Pedrollo Group of companies, is specialized in the production of alternators and rotating machines. It was founded in 2002 and became in few years one of the major players in the sector. The knowledge and long experience of its designers together with the strong propensity for innovation and a natural tendency for investment has quickly led to the development of a full range of Made in Italy products whose high quality standards are recognised and appreciated worldwide by the most important gen-sets manufacturers. In accordance with its deep values the main focus of Linz Electric has always been the Customer Satisfaction by controlling the key points of the production through a strong vertical integration, a constant focus on the Product Quality and a quick and complete Service.

#### **Linz Electric S.p.A.**

Viale del Lavoro, 30 37040 Arcole (VR) Italy - T. +39 045 7639 201 - F. +39 045 7639 202  
info@linzelectric.com - www.linzelectric.com



# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1500RPM - 50HZ

### 380V - 3 PHASE



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4	63.5	12	HVR11	7.4	7	6.5	6	5
E1X13S B/4	69.9	12	HVR11	9.2	8.8	8	7.7	6
E1X13S C/4	76.5	12	HVR11	11.4	11	10	9.2	8
E1X13M E/4	96	12	HVR11	15.5	15	14	13	11
E1X13M F/4	100	12	HVR11	18	17.5	16	14.6	13
SLT18M C/4	92	12	HVR11	16.5	16	15	14	12
SLT18M D/4	100	12	HVR11	23	22	20	18.5	16
PRO18S A/4	121	12	HVR11	23	22	20	18.5	16
PRO18S B/4	134.5	12	HVR11	28	27	25	23	20
PRO18S C/4	150	12	HVR11	34	33	30	28	24
PRO18M D/4	170	12	HVR11	39	37	35	32	28
PRO18M E/4	200	12	HVR11	48	47	42	39	34
PRO18L F/4	236.5	12	HVR11	55	53	50	45	40
PRO18L G/4	267.5	12	HVR11	65	62	60	55	48
PRO22S A/4	280	12	HVR11	71	69	63	59	50
PRO22S B/4	295	12	HVR11	85	80	75	69	60
PRO22S C/4	341	12	HVR11	96	92	85	79	68
PRO22S D/4	379	12	HVR11	113	110	100	93	80
PRO22M E/4	454	12	HVR11	147	142	130	121	104
PRO22M F/4	499	12	HVR11	170	162	150	140	120
PRO22M G/4	499	6	HVR11	180	175	160	147	128
PRO28S A/4	564	12	HVR30	200	195	180	160	144
PRO28S B/4	591	12	HVR30	220	215	200	175	160
PRO28S C/4	668	12	HVR30	265	255	225	200	180
PRO28S D/4	730.5	12	HVR30	280	266	250	210	200
PRO28M E/4	833.5	12	HVR30	325	310	300	250	240
PRO28M F/4	949	12	HVR30	375	365	350	300	280
PRO28L G/4	1034	6	HVR30	420	410	400	360	320
PRO35S B/4	1184	12	HVR30	495	480	450	405	370
PRO35S C/4	1262.5	6	HVR30	550	530	500	450	410
PRO35S D/4	1342.5	12	HVR30	605	580	550	495	450
PRO35M E/4	1494	6	HVR30	660	630	600	550	490
PRO35M F/4	1500.5	6	HVR30	715	680	655	600	535
PRO35M G/4	1658	12	HVR30	795	765	725	650	590
PRO35L H/4	1867	6	HVR30	900	870	800	780	650
PRO40S A/4	2029	6	HVR30	1050	1000	930	870	750
PRO40S B/4	2045	6	HVR30	1180	1140	1050	980	850
PRO40M C/4	2276	6	HVR30	1280	1240	1200	1050	960
PRO40M D/4	2635	6	HVR30	1500	1450	1350	1280	1100
PRO40L E/4	3275	6	HVR30	1650	1600	1500	1370	1250

# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1500RPM - 50HZ

### 400V - 3 PHASE



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4	63.5	12	HVR11	7.4	7	6.5	6	5
E1X13S B/4	69.9	12	HVR11	9.2	8.8	8	7.7	6
E1X13S C/4	76.5	12	HVR11	11.4	11	10	9.2	8
E1X13M E/4	96	12	HVR11	15.5	15	14	13	11
E1X13M F/4	100	12	HVR11	18	17.5	16	14.6	13
SLT18M C/4	92	12	HVR11	16.5	16	15	14	12
SLT18M D/4	100	12	HVR11	23	22	20	18.5	16
PRO18S A/4	121	12	HVR11	23	22	20	18.5	16
PRO18S B/4	134.5	12	HVR11	28	27	25	23	20
PRO18S C/4	150	12	HVR11	34	33	30	28	24
PRO18M D/4	170	12	HVR11	39	37	35	32	28
PRO18M E/4	200	12	HVR11	48	47	42	39	34
PRO18L F/4	236.5	12	HVR11	55	53	50	45	40
PRO18L G/4	267.5	12	HVR11	65	62	60	55	48
PRO22S A/4	280	12	HVR11	71	69	63	59	50
PRO22S B/4	295	12	HVR11	85	80	75	69	60
PRO22S C/4	341	12	HVR11	96	92	85	79	68
PRO22S D/4	379	12	HVR11	113	110	100	93	80
PRO22M E/4	454	12	HVR11	147	142	130	121	104
PRO22M F/4	499	12	HVR11	170	162	150	140	120
PRO22M G/4	499	6	HVR11	180	175	160	147	128
PRO28S A/4	564	12	HVR30	200	195	180	160	144
PRO28S B/4	591	12	HVR30	220	215	200	175	160
PRO28S C/4	668	12	HVR30	265	255	225	200	180
PRO28S D/4	730.5	12	HVR30	280	266	250	210	200
PRO28M E/4	833.5	12	HVR30	325	310	300	250	240
PRO28M F/4	949	12	HVR30	375	365	350	300	280
PRO28L G/4	1034	6	HVR30	420	410	400	360	320
PRO35S B/4	1184	12	HVR30	495	480	450	405	370
PRO35S C/4	1262.5	6	HVR30	550	530	500	450	410
PRO35S D/4	1342.5	12	HVR30	605	580	550	495	450
PRO35M E/4	1494	6	HVR30	660	630	600	550	490
PRO35M F/4	1500.5	6	HVR30	735	700	670	615	545
PRO35M G/4	1658	12	HVR30	795	765	725	650	590
PRO35L H/4	1867	6	HVR30	900	870	800	780	650
PRO40S A/4	2029	6	HVR30	1050	1000	930	870	750
PRO40S B/4	2045	6	HVR30	1180	1140	1050	980	850
PRO40M C/4	2276	6	HVR30	1350	1300	1250	1100	1000
PRO40M D/4	2635	6	HVR30	1500	1450	1350	1280	1100
PRO40L E/4	3275	6	HVR30	1650	1600	1500	1370	1250

# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1500RPM - 50HZ

### 415V - 3 PHASE



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4	63.5	12	HVR11	7.4	7	6.5	6	5
E1X13S B/4	69.9	12	HVR11	9	8.8	8	7.7	6
E1X13S C/4	76.5	12	HVR11	11.4	11	10	9.2	8
E1X13M E/4	96	12	HVR11	15.5	15	14	13	11
E1X13M F/4	100	12	HVR11	17.5	17	15.5	14.2	12.4
SLT18M C/4	92	12	HVR11	16.5	16	15	14	12
SLT18M D/4	100	12	HVR11	22.5	21.5	20	18.5	16
PRO18S A/4	121	12	HVR11	22.5	21.5	20	18.5	16
PRO18S B/4	134.5	12	HVR11	27	26	25	23	20
PRO18S C/4	150	12	HVR11	33	32	30	28	24
PRO18M D/4	170	12	HVR11	37	36	35	31	28
PRO18M E/4	200	12	HVR11	46	45	42	39	34
PRO18L F/4	236.5	12	HVR11	53	51	48	43.5	38.5
PRO18L G/4	267.5	12	HVR11	62	60	58	50	46.5
PRO22S A/4	280	12	HVR11	69	67	63	58	50
PRO22S B/4	295	12	HVR11	80	75	70	65	56
PRO22S C/4	341	12	HVR11	94	90	85	79	68
PRO22S D/4	379	12	HVR11	113	110	100	93	80
PRO22M E/4	454	12	HVR11	145	140	130	121	104
PRO22M F/4	499	12	HVR11	170	162	150	140	120
PRO22M G/4	499	6	HVR11	175	170	155	140	128
PRO28S A/4	564	12	HVR30	195	190	175	150	140
PRO28S B/4	591	12	HVR30	220	215	200	175	160
PRO28S C/4	668	12	HVR30	265	255	225	200	180
PRO28S D/4	730.5	12	HVR30	280	266	250	210	200
PRO28M E/4	833.5	12	HVR30	325	310	300	250	240
PRO28M F/4	949	12	HVR30	375	365	350	300	280
PRO28L G/4	1034	6	HVR30	420	410	400	360	320
PRO35S B/4	1184	12	HVR30	495	480	450	405	370
PRO35S C/4	1262.5	6	HVR30	550	530	500	450	410
PRO35S D/4	1342.5	12	HVR30	600	570	550	495	450
PRO35M E/4	1494	6	HVR30	660	630	600	550	490
PRO35M F/4	1500.5	6	HVR30	735	700	670	615	545
PRO35M G/4	1658	12	HVR30	795	765	725	650	590
PRO35L H/4	1867	6	HVR30	880	860	790	760	640
PRO40S A/4	2029	6	HVR30	1050	1000	930	870	750
PRO40S B/4	2045	6	HVR30	1180	1140	1050	980	850
PRO40M C/4	2276	6	HVR30	1300	1260	1200	1100	960
PRO40M D/4	2635	6	HVR30	1500	1450	1350	1280	1100
PRO40L E/4	3275	6	HVR30	1650	1600	1500	1370	1250

# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1500RPM - 50HZ

### 440V - 3 PHASE



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4	63.5	12	HVR11	6.8	6.5	6	5.5	4.5
E1X13S B/4	69.9	12	HVR11	8.7	8.5	8	7.2	6
E1X13S C/4	76.5	12	HVR11	9	8.8	9	8	7.5
E1X13M E/4	96	12	HVR11	13.5	13	12	10.5	9.5
E1X13M F/4	100	12	HVR11	15.5	15	14	12	11
SLT18M C/4	92	12	HVR11	13.5	13	12	11	10
SLT18M D/4	100	12	HVR11	21	20	18	17	14.5
PRO18S A/4	121	12	HVR11	21	20	18	17	14.5
PRO18S B/4	134.5	12	HVR11	25	24	22	20	17.5
PRO18S C/4	150	12	HVR11	28	27.5	25	24	20
PRO18M D/4	170	12	HVR11	31	30	29	27.5	23.5
PRO18M E/4	200	12	HVR11	44	42	36	32	29
PRO18L F/4	236.5	12	HVR11	50	48	42	40	34
PRO18L G/4	267.5	12	HVR11	55	52	50	45	40
PRO22S A/4	280	12	HVR11	57	55	52	48	42
PRO22S B/4	295	12	HVR11	75	70	65	62	52
PRO22S C/4	341	12	HVR11	79	77	72	67	58
PRO22S D/4	379	12	HVR11	96	93	85	80	68
PRO22M E/4	454	12	HVR11	119	116	110	100	88
PRO22M F/4	499	12	HVR11	142	136	125	117	100
PRO22M G/4	499	6	HVR11	155	150	130	120	104
PRO28S A/4	564	12	HVR30	182	177	165	145	132
PRO28S B/4	591	12	HVR30	200	195	180	160	144
PRO28S C/4	668	12	HVR30	250	245	215	190	172
PRO28S D/4	730.5	12	HVR30	260	250	235	197	188
PRO28M E/4	833.5	12	HVR30	312	297	288	240	230
PRO28M F/4	949	12	HVR30	365	354	340	290	272
PRO28L G/4	1034	6	HVR30	400	390	380	340	304
PRO35S B/4	1184	12	HVR30	460	440	420	380	350
PRO35S C/4	1262.5	6	HVR30	515	495	470	420	380
PRO35S D/4	1342.5	12	HVR30	570	540	500	465	410
PRO35M E/4	1494	6	HVR30	620	590	560	515	460
PRO35M F/4	1500.5	6	HVR30	675	660	625	570	510
PRO35M G/4	1658	12	HVR30	735	710	670	600	545
PRO35L H/4	1867	6	HVR30	810	780	730	700	595
PRO40S A/4	2029	6	HVR30	1000	960	890	820	720
PRO40S B/4	2045	6	HVR30	1110	1100	1010	940	820
PRO40M C/4	2276	6	HVR30	1200	1150	1100	1000	880
PRO40M D/4	2635	6	HVR30	1500	1450	1300	1280	1050
PRO40L E/4	3275	6	HVR30	1500	1450	1400	1250	1150

# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1500RPM - 50HZ

### 220V - 1 PHASE - RECONNECTED



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	12	HVR11	5	4.7	<b>4.3</b>	4	3.5
E1X13S B/4 - 1ph	69.9	12	HVR11	6.3	6	<b>5.5</b>	5	4.5
E1X13S C/4 - 1ph	76.5	12	HVR11	7.4	7	<b>6.5</b>	6	5.2
E1X13M E/4 - 1ph	96	12	HVR11	10.5	10.2	<b>9.5</b>	8.7	7.6
E1X13M F/4 - 1ph	100	12	HVR11	12	11.5	<b>10.5</b>	9.6	8.5
SLT18M C/4 - 1ph	92	12	HVR11	11.5	11	<b>10</b>	9.3	8
SLT18M D/4 - 1ph	100	12	HVR11	15	14.5	<b>13</b>	12	10.5
PRO18S A/4 - 1ph	121	12	HVR11	15	14.5	<b>13</b>	12	10.5
PRO18S B/4 - 1ph	134.5	12	HVR11	18.6	18	<b>16.5</b>	15.2	13.5
PRO18S C/4 - 1ph	150	12	HVR11	22	21.3	<b>19.5</b>	17.8	15.6
PRO18M D/4 - 1ph	170	12	HVR11	25.5	24.5	<b>22.5</b>	20.5	18
PRO18M E/4 - 1ph	200	12	HVR11	30.5	29	<b>27</b>	24.5	22
PRO18L F/4 - 1ph	236.5	12	HVR11	36	34.5	<b>33</b>	29.5	26
PRO18L G/4 - 1ph	267.5	12	HVR11	42	40.5	<b>39</b>	36	31.5
PRO22S A/4 - 1ph	280	12	HVR11	46.5	45	<b>41</b>	38.5	32.5
PRO22S B/4 - 1ph	295	12	HVR11	55	52	<b>49</b>	45	39
PRO22S C/4 - 1ph	341	12	HVR11	62	60	<b>55</b>	51	44
PRO22S D/4 - 1ph	379	12	HVR11	74	72	<b>65</b>	61	52
PRO22M E/4 - 1ph	454	12	HVR11	95	92	<b>85</b>	79	68
PRO22M F/4 - 1ph	449	12	HVR11	110	105	<b>98</b>	91	78
PRO22M G/4 - 1ph	449	6	HVR11	117	114	<b>104</b>	95	83
PRO28S A/4 - 1ph	564	12	HVR30	130	127	<b>117</b>	104	94
PRO28S B/4 - 1ph	591	12	HVR30	143	140	<b>130</b>	114	104
PRO28S C/4 - 1ph	668	12	HVR30	172	166	<b>146</b>	130	117
PRO28S D/4 - 1ph	730.5	12	HVR30	182	173	<b>163</b>	137	130
PRO28M E/4 - 1ph	833.5	12	HVR30	210	200	<b>195</b>	163	156
PRO28M F/4 - 1ph	949	6	HVR30	245	240	<b>230</b>	195	185
PRO28L G/4 - 1ph	1034	6	HVR30	273	267	<b>260</b>	235	210
PRO35S B/4 - 1ph	1184	12	HVR30	330	320	<b>295</b>	270	245
PRO35S C/4 - 1ph	1262.5	6	HVR30	360	350	<b>330</b>	295	270
PRO35S D/4 - 1ph	1342.5	12	HVR30	395	380	<b>360</b>	325	295
PRO35M E/4 - 1ph	1494	6	HVR30	430	410	<b>390</b>	360	320
PRO35M F/4 - 1ph	1500.5	6	HVR30	465	445	<b>430</b>	390	350
PRO35M G/4 - 1ph	1658	12	HVR30	520	500	<b>475</b>	425	385
PRO35L H/4 - 1ph	1867	6	HVR30	585	570	<b>530</b>	510	425



# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1500RPM - 50HZ

### 230V - 1 PHASE - RECONNECTED



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	12	HVR11	5	4.7	<b>4.3</b>	4	3.5
E1X13S B/4 - 1ph	69.9	12	HVR11	6.3	6	<b>5.5</b>	5	4.5
E1X13S C/4 - 1ph	76.5	12	HVR11	7.4	7	<b>6.5</b>	6	5.2
E1X13M E/4 - 1ph	96	12	HVR11	10.5	10.2	<b>9.5</b>	8.7	7.6
E1X13M F/4 - 1ph	100	12	HVR11	12	11.5	<b>10.5</b>	9.6	8.5
SLT18M C/4 - 1ph	92	12	HVR11	11.5	11	<b>10</b>	9.3	8
SLT18M D/4 - 1ph	100	12	HVR11	15	14	<b>13</b>	12	10.5
PRO18S A/4 - 1ph	121	12	HVR11	15	14.5	<b>13</b>	12	10.5
PRO18S B/4 - 1ph	134.5	12	HVR11	18.6	18	<b>16.5</b>	15.2	13.5
PRO18S C/4 - 1ph	150	12	HVR11	22	21.3	<b>19.5</b>	17.8	15.6
PRO18M D/4 - 1ph	170	12	HVR11	25.5	24.5	<b>22.5</b>	20.5	18
PRO18M E/4 - 1ph	200	12	HVR11	30.5	29	<b>27</b>	24.5	22
PRO18L F/4 - 1ph	236.5	12	HVR11	36	34.5	<b>33</b>	29.5	26
PRO18L G/4 - 1ph	267.5	12	HVR11	42	40.5	<b>39</b>	36	31.5
PRO22S A/4 - 1ph	280	12	HVR11	46.5	45	<b>41</b>	38.5	32.5
PRO22S B/4 - 1ph	295	12	HVR11	55	52	<b>49</b>	45	39
PRO22S C/4 - 1ph	341	12	HVR11	62	60	<b>55</b>	51	44
PRO22S D/4 - 1ph	379	12	HVR11	74	72	<b>65</b>	61	52
PRO22M E/4 - 1ph	454	12	HVR11	95	92	<b>85</b>	79	68
PRO22M F/4 - 1ph	449	12	HVR11	110	105	<b>98</b>	91	78
PRO22M G/4 - 1ph	449	6	HVR11	117	114	<b>104</b>	95	83
PRO28S A/4 - 1ph	564	12	HVR30	130	127	<b>117</b>	104	94
PRO28S B/4 - 1ph	591	12	HVR30	143	140	<b>130</b>	114	104
PRO28S C/4 - 1ph	668	12	HVR30	172	166	<b>146</b>	130	117
PRO28S D/4 - 1ph	730.5	12	HVR30	182	173	<b>163</b>	137	130
PRO28M E/4 - 1ph	833.5	12	HVR30	210	200	<b>195</b>	163	156
PRO28M F/4 - 1ph	949	6	HVR30	245	240	<b>230</b>	195	185
PRO28L G/4 - 1ph	1034	6	HVR30	273	267	<b>260</b>	235	210
PRO35S B/4 - 1ph	1184	12	HVR30	330	320	<b>295</b>	270	245
PRO35S C/4 - 1ph	1262.5	6	HVR30	360	350	<b>330</b>	295	270
PRO35S D/4 - 1ph	1342.5	12	HVR30	395	380	<b>360</b>	325	295
PRO35M E/4 - 1ph	1494	6	HVR30	430	410	<b>390</b>	360	320
PRO35M F/4 - 1ph	1500.5	6	HVR30	475	460	<b>440</b>	400	360
PRO35M G/4 - 1ph	1658	12	HVR30	520	500	<b>475</b>	425	385
PRO35L H/4 - 1ph	1867	6	HVR30	585	570	<b>530</b>	510	425

# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1500RPM - 50HZ

### 240V - 1 PHASE - RECONNECTED



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	12	HVR11	5	4.7	<b>4.3</b>	4	3.5
E1X13S B/4 - 1ph	69.9	12	HVR11	6.3	6	<b>5.5</b>	5	4.5
E1X13S C/4 - 1ph	76.5	12	HVR11	7.4	7	<b>6.5</b>	6	5.2
E1X13M E/4 - 1ph	96	12	HVR11	10.5	10.2	<b>9.5</b>	8.7	7.6
E1X13M F/4 - 1ph	100	12	HVR11	12	11.5	<b>10.5</b>	9.6	8.5
SLT18M C/4 - 1ph	92	12	HVR11	11.5	11	<b>10</b>	9.3	8
SLT18M D/4 - 1ph	100	12	HVR11	15	14	<b>13</b>	12	10.5
PR018S A/4 - 1ph	121	12	HVR11	15	14	<b>13</b>	12	10.5
PR018S B/4 - 1ph	134.5	12	HVR11	18.6	18	<b>16.5</b>	15.2	13.5
PR018S C/4 - 1ph	150	12	HVR11	22	21.3	<b>19.5</b>	17.8	15.6
PR018M D/4 - 1ph	170	12	HVR11	25.5	24.5	<b>22.5</b>	20.5	18
PR018M E/4 - 1ph	200	12	HVR11	30.5	29	<b>27</b>	24.5	22
PR018L F/4 - 1ph	236.5	12	HVR11	34.5	33	<b>31.5</b>	28.5	25
PR018L G/4 - 1ph	267.5	12	HVR11	40.5	39	<b>38</b>	33	30.5
PR022S A/4 - 1ph	280	12	HVR11	45	44	<b>41</b>	38	32.5
PR022S B/4 - 1ph	295	12	HVR11	52	49	<b>46</b>	42	36
PR022S C/4 - 1ph	341	12	HVR11	61	58	<b>55</b>	51	44
PR022S D/4 - 1ph	379	12	HVR11	74	72	<b>65</b>	61	52
PR022M E/4 - 1ph	454	12	HVR11	94	91	<b>85</b>	79	68
PR022M F/4 - 1ph	449	12	HVR11	110	105	<b>98</b>	91	78
PR022M G/4 - 1ph	449	6	HVR11	114	110	<b>100</b>	91	81
PR028S A/4 - 1ph	564	12	HVR30	127	124	<b>114</b>	98	91
PR028S B/4 - 1ph	591	12	HVR30	143	140	<b>130</b>	114	104
PR028S C/4 - 1ph	668	12	HVR30	172	166	<b>146</b>	130	117
PR028S D/4 - 1ph	730.5	12	HVR30	182	173	<b>163</b>	137	130
PR028M E/4 - 1ph	833.5	12	HVR30	210	200	<b>195</b>	163	156
PR028M F/4 - 1ph	949	6	HVR30	245	240	<b>230</b>	195	185
PR028L G/4 - 1ph	1034	6	HVR30	273	267	<b>260</b>	235	210
PR035S B/4 - 1ph	1184	12	HVR30	330	320	<b>295</b>	270	245
PR035S C/4 - 1ph	1262.5	6	HVR30	360	350	<b>330</b>	295	270
PR035S D/4 - 1ph	1342.5	12	HVR30	390	370	<b>360</b>	325	295
PR035M E/4 - 1ph	1494	6	HVR30	430	410	<b>390</b>	360	320
PR035M F/4 - 1ph	1500.5	6	HVR30	475	460	<b>440</b>	400	360
PR035M G/4 - 1ph	1658	12	HVR30	520	500	<b>475</b>	425	385
PR035L H/4 - 1ph	1867	6	HVR30	575	560	<b>515</b>	495	420

**BRUSHLESS ALTERNATORS WITH AVR**  
**4 POLES - 1500RPM - 50HZ**  
**254V - 1 PHASE - RECONNECTED**



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	12	HVR11	4.5	4.2	<b>3.8</b>	3.5	3
E1X13S B/4 - 1ph	69.9	12	HVR11	5.7	5.5	<b>5</b>	4.5	4
E1X13S C/4 - 1ph	76.5	12	HVR11	6.8	6.5	<b>6</b>	5.5	4.8
E1X13M E/4 - 1ph	96	12	HVR11	9.5	9.2	<b>9</b>	8	7.2
E1X13M F/4 - 1ph	100	12	HVR11	10.8	10.2	<b>9.3</b>	8.5	7.5
SLT18M C/4 - 1ph	92	12	HVR11	9.5	9	<b>8</b>	7.4	6.5
SLT18M D/4 - 1ph	100	12	HVR11	13.6	13	<b>11.5</b>	11	9.5
PR018S A/4 - 1ph	121	12	HVR11	13.6	13	<b>11.5</b>	11	9.5
PR018S B/4 - 1ph	134.5	12	HVR11	16.5	16	<b>14.5</b>	13.3	12
PR018S C/4 - 1ph	150	12	HVR11	18.5	18	<b>16.5</b>	15	13.2
PR018M D/4 - 1ph	170	12	HVR11	21.5	20.6	<b>19</b>	17.4	15.5
PR018M E/4 - 1ph	200	12	HVR11	26	25	<b>23</b>	21	18.5
PR018L F/4 - 1ph	236.5	12	HVR11	32.5	31	<b>27</b>	26	22
PR018L G/4 - 1ph	267.5	12	HVR11	36	34	<b>33</b>	30	26
PR022S A/4 - 1ph	280	12	HVR11	37	36	<b>34</b>	31	27.5
PR022S B/4 - 1ph	295	12	HVR11	49	46	<b>42</b>	40	34
PR022S C/4 - 1ph	341	12	HVR11	52	50	<b>47</b>	44	38
PR022S D/4 - 1ph	379	12	HVR11	63	61	<b>55</b>	52	44
PR022M E/4 - 1ph	454	12	HVR11	77	76	<b>72</b>	65	57
PR022M F/4 - 1ph	449	12	HVR11	92	89	<b>82</b>	76	60
PR022M G/4 - 1ph	449	6	HVR11	101	97	<b>84</b>	78	68
PR028S A/4 - 1ph	564	12	HVR30	118	115	<b>107</b>	94	86
PR028S B/4 - 1ph	591	12	HVR30	130	127	<b>117</b>	104	94
PR028S C/4 - 1ph	668	12	HVR30	163	160	<b>140</b>	124	112
PR028S D/4 - 1ph	730.5	12	HVR30	170	165	<b>153</b>	128	123
PR028M E/4 - 1ph	833.5	12	HVR30	203	195	<b>187</b>	156	150
PR028M F/4 - 1ph	949	6	HVR30	235	230	<b>220</b>	190	177
PR028L G/4 - 1ph	1034	6	HVR30	260	255	<b>245</b>	225	200
PR035S B/4 - 1ph	1184	12	HVR30	300	290	<b>275</b>	250	230
PR035S C/4 - 1ph	1262.5	6	HVR30	340	325	<b>310</b>	275	250
PR035S D/4 - 1ph	1342.5	12	HVR30	375	355	<b>330</b>	305	270
PR035M E/4 - 1ph	1494	6	HVR30	410	390	<b>365</b>	340	300
PR035M F/4 - 1ph	1500.5	6	HVR30	440	430	<b>410</b>	375	335
PR035M G/4 - 1ph	1658	12	HVR30	480	465	<b>440</b>	390	360
PR035L H/4 - 1ph	1867	6	HVR30	530	510	<b>480</b>	460	390

**BRUSHLESS ALTERNATORS WITH AVR**  
**4 POLES - 1500RPM - 50HZ**  
**230V - 1 PHASE - DEDICATED**



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	4	HVR11	6	5.5	<b>5</b>	4.5	4
E1X13S B/4 - 1ph	69.9	4	HVR11	7	6.5	<b>6</b>	5.5	5
E1X13S C/4 - 1ph	76.5	4	HVR11	8.5	8	<b>7.5</b>	6.7	6
E1X13M E/4 - 1ph	96	4	HVR11	11.5	11	<b>10</b>	9	8
E1X13M F/4 - 1ph	100	4	HVR11	12.5	12	<b>11</b>	10	9
SLS18M C/4	90	4	HVR11	11.5	11	<b>10</b>	9.3	8
SLS18M D/4	99	4	HVR11	16.5	16	<b>15</b>	14	12
PR018S A/4 - 1ph	121	4	HVR11	16.5	16	<b>15</b>	14	12
PR018S B/4 - 1ph	134.5	4	HVR11	20	19.5	<b>18</b>	16.5	14.5
PR018S C/4 - 1ph	150	4	HVR11	25	24	<b>22</b>	20	17.5
PR018M D/4 - 1ph	170	4	HVR11	28	27	<b>25</b>	23	20
PR018M E/4 - 1ph	200	4	HVR11	34	32.5	<b>30</b>	27.5	24
PR018L F/4 - 1ph	236.5	4	HVR11	41.5	40	<b>36.5</b>	33	29
PR018L G/4 - 1ph	267.5	4	HVR11	48	47	<b>43</b>	39.5	34.5
PR022S A/4 - 1ph	280	4	HVR11	50.5	49	<b>45</b>	41	36
PR022S B/4 - 1ph	295	4	HVR11	61	59	<b>54</b>	50	43.5
PR022S C/4 - 1ph	341	4	HVR11	68	66	<b>60</b>	55	49
PR022S D/4 - 1ph	379	4	HVR11	81	79	<b>72</b>	66	58
PR022M E/4 - 1ph	454	4	HVR11	106	102	<b>93</b>	85	75
PR022M F/4 - 1ph	499	4	HVR11	118	114	<b>104</b>	95	83

# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1800RPM - 60HZ

### 415V - 3 PHASE



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4	63.5	12	HVR11	8.4	8	<b>7.4</b>	6.7	5.5
E1X13S B/4	69.9	12	HVR11	10	9.3	<b>9</b>	8.5	7
E1X13S C/4	76.5	12	HVR11	12	11.5	<b>10.8</b>	10	8.6
E1X13M E/4	96	12	HVR11	15	14.5	<b>14</b>	13	11
E1X13M F/4	100	12	HVR11	19	18.5	<b>17</b>	15.5	13.5
SLT18M C/4	92	12	HVR11	18	17.5	<b>16</b>	15	13
SLT18M D/4	100	12	HVR11	25	24	<b>21</b>	20	17
PRO18S A/4	121	12	HVR11	25	24	<b>21</b>	20	17
PRO18S B/4	134.5	12	HVR11	30	28.5	<b>26</b>	24	21
PRO18S C/4	150	12	HVR11	35	36	<b>34</b>	32	27
PRO18M D/4	170	12	HVR11	42	40	<b>38.5</b>	36	31
PRO18M E/4	200	12	HVR11	52	50	<b>48</b>	45	38.5
PRO18L F/4	236.5	12	HVR11	60	58	<b>56</b>	48	45
PRO18L G/4	267.5	12	HVR11	64	62	<b>60</b>	50	48
PRO22S A/4	280	12	HVR11	73.5	71	<b>65</b>	61	52
PRO22S B/4	295	12	HVR11	90	86	<b>81</b>	75	65
PRO22S C/4	341	12	HVR11	105	100	<b>94</b>	88	75
PRO22S D/4	379	12	HVR11	123	118	<b>110</b>	101	88
PRO22M E/4	454	12	HVR11	157	148	<b>139</b>	129	111
PRO22M F/4	499	12	HVR11	170	162	<b>150</b>	139	120
PRO22M G/4	499	6	HVR11	190	180	<b>165</b>	150	132
PRO28S A/4	564	12	HVR30	218	213	<b>196</b>	175	157
PRO28S B/4	591	12	HVR30	250	245	<b>225</b>	200	180
PRO28S C/4	668	12	HVR30	295	290	<b>260</b>	225	208
PRO28S D/4	730.5	12	HVR30	320	310	<b>290</b>	240	232
PRO28M E/4	833.5	12	HVR30	365	345	<b>335</b>	277	268
PRO28M F/4	949	12	HVR30	415	400	<b>390</b>	335	312
PRO28L G/4	1034	6	HVR30	445	435	<b>430</b>	386	344
PRO35S B/4	1184	12	HVR30	530	520	<b>480</b>	440	395
PRO35S C/4	1262.5	6	HVR30	600	575	<b>550</b>	495	450
PRO35S D/4	1342.5	12	HVR30	640	615	<b>580</b>	510	470
PRO35M E/4	1494	6	HVR30	705	680	<b>640</b>	590	520
PRO35M F/4	1500.5	6	HVR30	780	750	<b>715</b>	650	580
PRO35M G/4	1658	12	HVR30	860	830	<b>785</b>	700	640
PRO35L H/4	1867	6	HVR30	950	915	<b>870</b>	860	710
PRO40S A/4	2029	6	HVR30	1120	1090	<b>1050</b>	975	850
PRO40S B/4	2045	6	HVR30	1200	1130	<b>1100</b>	1020	900
PRO40M C/4	2276	6	HVR30	1400	1350	<b>1300</b>	1190	1040
PRO40M D/4	2635	6	HVR30	1650	1600	<b>1480</b>	1400	1200
PRO40L E/4	3275	6	HVR30	1800	1750	<b>1650</b>	1500	1350

# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1800RPM - 60HZ

### 440V - 3 PHASE



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4	63.5	12	HVR11	9	8.5	8	7.3	6
E1X13S B/4	69.9	12	HVR11	10.5	10	9.5	9	7.6
E1X13S C/4	76.5	12	HVR11	13	12.5	11.5	10.5	9
E1X13M E/4	96	12	HVR11	18	17.5	16.5	15	13
E1X13M F/4	100	12	HVR11	20.5	20	18.5	17	14.5
SLT18M C/4	92	12	HVR11	19	18.5	17	16	14
SLT18M D/4	100	12	HVR11	26	25	23	21	18.5
PRO18S A/4	121	12	HVR11	26	25	23	21	18.5
PRO18S B/4	134.5	12	HVR11	32	30	28	25	18
PRO18S C/4	150	12	HVR11	37.5	36.5	35	33	28
PRO18M D/4	170	12	HVR11	45	42	40	37	32
PRO18M E/4	200	12	HVR11	55	53	50	47	40
PRO18L F/4	236.5	12	HVR11	63	61	57	52	46
PRO18L G/4	267.5	12	HVR11	72	70	68	62	55.5
PRO22S A/4	280	12	HVR11	81	78.5	72	67	58
PRO22S B/4	295	12	HVR11	93	90	86	80	69
PRO22S C/4	341	12	HVR11	110	105	100	93	80
PRO22S D/4	379	12	HVR11	136	130	120	112	96
PRO22M E/4	454	12	HVR11	169	160	150	139	120
PRO22M F/4	499	12	HVR11	192	184	170	158	136
PRO22M G/4	499	6	HVR11	210	200	180	165	144
PRO28S A/4	564	12	HVR30	228	223	205	183	164
PRO28S B/4	591	12	HVR30	265	260	240	210	192
PRO28S C/4	668	12	HVR30	315	305	270	240	216
PRO28S D/4	730.5	12	HVR30	335	320	300	250	240
PRO28M E/4	833.5	12	HVR30	390	370	360	300	288
PRO28M F/4	949	12	HVR30	450	435	420	360	336
PRO28L G/4	1034	6	HVR30	480	470	460	415	368
PRO35S B/4	1184	12	HVR30	565	550	520	465	420
PRO35S C/4	1262.5	6	HVR30	640	615	580	525	470
PRO35S D/4	1342.5	12	HVR30	695	665	635	575	520
PRO35M E/4	1494	6	HVR30	740	720	680	620	550
PRO35M F/4	1500.5	6	HVR30	830	790	760	690	620
PRO35M G/4	1658	12	HVR30	895	865	820	740	670
PRO35L H/4	1867	6	HVR30	1010	975	900	875	730
PRO40S A/4	2029	6	HVR30	1200	1150	1100	1025	900
PRO40S B/4	2045	6	HVR30	1320	1280	1200	1120	960
PRO40M C/4	2276	6	HVR30	1490	1430	1380	1210	1100
PRO40M D/4	2635	6	HVR30	1700	1660	1550	1460	1250
PRO40L E/4	3275	6	HVR30	1900	1860	1750	1600	1450

# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1800RPM - 60HZ

### 460V - 3 PHASE



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4	63.5	12	HVR11	9.2	8.8	8	7.3	6
E1X13S B/4	69.9	12	HVR11	11	10.5	10	9.3	8
E1X13S C/4	76.5	12	HVR11	13.5	13	12	11	9.5
E1X13M E/4	96	12	HVR11	18.6	18	17	15.5	13.5
E1X13M F/4	100	12	HVR11	21.5	21	19	17.5	15
SLT18M C/4	92	12	HVR11	21	20	18	17	14.5
SLT18M D/4	100	12	HVR11	27	26	24	22	19
PRO18S A/4	121	12	HVR11	27	26	24	22	19
PRO18S B/4	134.5	12	HVR11	34	32	30	27.5	24
PRO18S C/4	150	12	HVR11	39	38	36	33.5	29
PRO18M D/4	170	12	HVR11	47	45	42	38.5	34
PRO18M E/4	200	12	HVR11	57	55	50	47	40
PRO18L F/4	236.5	12	HVR11	65	63	58	53	47
PRO18L G/4	267.5	12	HVR11	78	76	72	66	58
PRO22S A/4	280	12	HVR11	85.5	83	76	70.5	61
PRO22S B/4	295	12	HVR11	98	95	90	83	72
PRO22S C/4	341	12	HVR11	115	110	102	95	82
PRO22S D/4	379	12	HVR11	136	130	120	112	96
PRO22M E/4	454	12	HVR11	176	167	156	145	120
PRO22M F/4	499	12	HVR11	204	195	180	168	144
PRO22M G/4	499	6	HVR11	220	210	192	176	154
PRO28S A/4	564	12	HVR30	240	234	215	192	172
PRO28S B/4	591	12	HVR30	265	260	240	210	192
PRO28S C/4	668	12	HVR30	315	305	270	240	216
PRO28S D/4	730.5	12	HVR30	335	320	300	250	240
PRO28M E/4	833.5	12	HVR30	390	370	360	300	288
PRO28M F/4	949	12	HVR30	450	435	420	360	336
PRO28L G/4	1034	6	HVR30	500	490	480	430	368
PRO35S B/4	1184	12	HVR30	590	575	540	485	440
PRO35S C/4	1262.5	6	HVR30	660	635	600	540	490
PRO35S D/4	1342.5	12	HVR30	725	695	660	590	540
PRO35M E/4	1494	6	HVR30	790	760	720	660	590
PRO35M F/4	1500.5	6	HVR30	880	840	804	730	655
PRO35M G/4	1658	12	HVR30	950	920	870	780	710
PRO35L H/4	1867	6	HVR30	1080	1040	960	935	780
PRO40S A/4	2029	6	HVR30	1260	1200	1116	1044	920
PRO40S B/4	2045	6	HVR30	1416	1370	1260	1176	1000
PRO40M C/4	2276	6	HVR30	1550	1500	1440	1270	1150
PRO40M D/4	2635	6	HVR30	1800	1750	1620	1540	1300
PRO40L E/4	3275	6	HVR30	1980	1920	1800	1650	1470

# BRUSHLESS ALTERNATORS WITH AVR

## 4 POLES - 1800RPM - 60HZ

### 480V - 3 PHASE



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4	63.5	12	HVR11	9.2	8.8	8	7.3	6
E1X13S B/4	69.9	12	HVR11	11	10.5	10	9.3	8
E1X13S C/4	76.5	12	HVR11	13.5	13	12	11	9.5
E1X13M E/4	96	12	HVR11	18.6	18	17	15.5	13.5
E1X13M F/4	100	12	HVR11	21.5	21	19	17.5	15
SLT18M C/4	92	12	HVR11	21	20	18	17	14.5
SLT18M D/4	100	12	HVR11	27	26	24	22	19
PRO18S A/4	121	12	HVR11	27	26	24	22	19
PRO18S B/4	134.5	12	HVR11	34	32	30	27.5	24
PRO18S C/4	150	12	HVR11	39	38	36	33.5	29
PRO18M D/4	170	12	HVR11	47	45	42	38.5	34
PRO18M E/4	200	12	HVR11	57	55	50	47	40
PRO18L F/4	236.5	12	HVR11	66	64	60	54	48
PRO18L G/4	267.5	12	HVR11	78	76	72	66	58
PRO22S A/4	280	12	HVR11	85.5	83	76	70.5	61
PRO22S B/4	295	12	HVR11	98	95	90	83	72
PRO22S C/4	341	12	HVR11	115	110	102	95	82
PRO22S D/4	379	12	HVR11	136	130	120	112	96
PRO22M E/4	454	12	HVR11	176	167	156	145	125
PRO22M F/4	499	12	HVR11	204	195	180	168	144
PRO22M G/4	499	6	HVR11	220	210	192	176	154
PRO28S A/4	564	12	HVR30	240	234	215	192	172
PRO28S B/4	591	12	HVR30	265	260	240	210	192
PRO28S C/4	668	12	HVR30	315	305	270	240	216
PRO28S D/4	730.5	12	HVR30	335	320	300	250	240
PRO28M E/4	833.5	12	HVR30	390	370	360	300	288
PRO28M F/4	949	12	HVR30	450	435	420	360	336
PRO28L G/4	1034	6	HVR30	500	490	480	430	368
PRO35S B/4	1184	12	HVR30	590	575	540	485	440
PRO35S C/4	1262.5	6	HVR30	660	635	600	540	490
PRO35S D/4	1342.5	12	HVR30	725	695	660	590	540
PRO35M E/4	1494	6	HVR30	790	760	720	660	590
PRO35M F/4	1500.5	6	HVR30	880	840	804	730	655
PRO35M G/4	1658	12	HVR30	950	920	870	780	710
PRO35L H/4	1867	6	HVR30	1080	1040	960	935	780
PRO40S A/4	2029	6	HVR30	1260	1200	1116	1044	920
PRO40S B/4	2045	6	HVR30	1416	1370	1260	1176	1000
PRO40M C/4	2276	6	HVR30	1620	1560	1500	1320	1200
PRO40M D/4	2635	6	HVR30	1800	1750	1620	1540	1300
PRO40L E/4	3275	6	HVR30	1980	1920	1800	1650	1470



**BRUSHLESS ALTERNATORS WITH AVR**  
**4 POLES - 1800RPM - 60HZ**  
**240V - 1 PHASE - RECONNECTED**



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	12	HVR11	5	4.8	<b>4.4</b>	4	3.6
E1X13S B/4 - 1ph	69.9	12	HVR11	6.3	6	<b>5.5</b>	5	4.6
E1X13S C/4 - 1ph	76.5	12	HVR11	8	7.7	<b>7</b>	6.4	5.5
E1X13M E/4 - 1ph	96	12	HVR11	11.8	11.5	<b>10.5</b>	9.6	8.5
E1X13M F/4 - 1ph	100	12	HVR11	12.5	12	<b>11.2</b>	10.5	9
SLT18M C/4 - 1ph	92	12	HVR11	13.5	12	<b>11</b>	10	9
SLT18M D/4 - 1ph	100	12	HVR11	16	15.6	<b>13.7</b>	13	11
PRO18S A/4 - 1ph	121	12	HVR11	16	15.6	<b>13.7</b>	13	11
PRO18S B/4 - 1ph	134.5	12	HVR11	19.5	18.6	<b>17</b>	15.6	14
PRO18S C/4 - 1ph	150	12	HVR11	24.5	23.5	<b>21.5</b>	19.5	17.5
PRO18M D/4 - 1ph	170	12	HVR11	28	27	<b>24.6</b>	22.5	20
PRO18M E/4 - 1ph	200	12	HVR11	33	31.5	<b>29</b>	26.5	23
PRO18L F/4 - 1ph	236.5	12	HVR11	39	38	<b>36</b>	31	29.5
PRO18L G/4 - 1ph	267.5	12	HVR11	42	40.5	<b>39</b>	33	31.5
PRO22S A/4 - 1ph	280	12	HVR11	48	46	<b>42.5</b>	40	34
PRO22S B/4 - 1ph	295	12	HVR11	58	56	<b>53</b>	49	42
PRO22S C/4 - 1ph	341	12	HVR11	68	65	<b>61</b>	57	49
PRO22S D/4 - 1ph	379	12	HVR11	80	77	<b>72</b>	65	57
PRO22M E/4 - 1ph	454	12	HVR11	102	96	<b>90</b>	84	72
PRO22M F/4 - 1ph	449	12	HVR11	110	105	<b>98</b>	91	78
PRO22M G/4 - 1ph	449	6	HVR11	123	117	<b>107</b>	97	86
PRO28S A/4 - 1ph	564	12	HVR30	142	138	<b>127</b>	114	102
PRO28S B/4 - 1ph	591	12	HVR30	163	160	<b>146</b>	130	117
PRO28S C/4 - 1ph	668	12	HVR30	192	190	<b>170</b>	146	135
PRO28S D/4 - 1ph	730.5	12	HVR30	210	200	<b>190</b>	156	150
PRO28M E/4 - 1ph	833.5	12	HVR30	235	225	<b>220</b>	180	175
PRO28M F/4 - 1ph	949	6	HVR30	270	260	<b>254</b>	220	203
PRO28L G/4 - 1ph	1034	6	HVR30	290	283	<b>280</b>	250	225
PRO35S B/4 - 1ph	1184	12	HVR30	350	340	<b>320</b>	290	260
PRO35S C/4 - 1ph	1262.5	6	HVR30	390	375	<b>360</b>	325	295
PRO35S D/4 - 1ph	1342.5	12	HVR30	420	400	<b>380</b>	335	310
PRO35M E/4 - 1ph	1494	6	HVR30	460	445	<b>420</b>	385	340
PRO35M F/4 - 1ph	1500.5	6	HVR30	510	490	<b>465</b>	425	380
PRO35M G/4 - 1ph	1658	12	HVR30	560	540	<b>510</b>	460	420
PRO35L H/4 - 1ph	1867	6	HVR30	620	595	<b>570</b>	560	460

**BRUSHLESS ALTERNATORS WITH AVR**  
**4 POLES - 1800RPM - 60HZ**  
**254V - 1 PHASE - RECONNECTED**



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	12	HVR11	5.5	5.2	<b>4.8</b>	4.4	4
E1X13S B/4 - 1ph	69.9	12	HVR11	6.8	6.5	<b>6</b>	5.5	5
E1X13S C/4 - 1ph	76.5	12	HVR11	8.5	8.2	<b>7.5</b>	7	5.9
E1X13M E/4 - 1ph	96	12	HVR11	12.3	12	<b>11</b>	10	9
E1X13M F/4 - 1ph	100	12	HVR11	13.8	13.2	<b>12.7</b>	11.7	10.2
SLT18M C/4 - 1ph	92	12	HVR11	13	12.5	<b>11.5</b>	10.5	9.5
SLT18M D/4 - 1ph	100	12	HVR11	16.5	16.3	<b>15</b>	13.7	12
PRO18S A/4 - 1ph	121	12	HVR11	16.5	16.3	<b>15</b>	13.7	12
PRO18S B/4 - 1ph	134.5	12	HVR11	20.5	19.7	<b>18</b>	16.5	14.5
PRO18S C/4 - 1ph	150	12	HVR11	25.4	24.4	<b>22.3</b>	20.4	18
PRO18M D/4 - 1ph	170	12	HVR11	29	27.6	<b>25.4</b>	23.2	20.5
PRO18M E/4 - 1ph	200	12	HVR11	34	32.5	<b>30</b>	27.5	24
PRO18L F/4 - 1ph	236.5	12	HVR11	41	40	<b>37</b>	34	30
PRO18L G/4 - 1ph	267.5	12	HVR11	47	46	<b>44</b>	40	36
PRO22S A/4 - 1ph	280	12	HVR11	53	51	<b>47</b>	43.5	38
PRO22S B/4 - 1ph	295	12	HVR11	60	58	<b>56</b>	52	45
PRO22S C/4 - 1ph	341	12	HVR11	72	68	<b>65</b>	61	52
PRO22S D/4 - 1ph	379	12	HVR11	88	86	<b>78</b>	73	63
PRO22M E/4 - 1ph	454	12	HVR11	110	104	<b>97</b>	90	78
PRO22M F/4 - 1ph	449	12	HVR11	125	120	<b>110</b>	103	100
PRO22M G/4 - 1ph	449	6	HVR11	136	130	<b>117</b>	107	94
PRO28S A/4 - 1ph	564	12	HVR30	148	145	<b>133</b>	119	107
PRO28S B/4 - 1ph	591	12	HVR30	172	170	<b>156</b>	137	125
PRO28S C/4 - 1ph	668	12	HVR30	205	200	<b>176</b>	156	140
PRO28S D/4 - 1ph	730.5	12	HVR30	220	210	<b>200</b>	165	156
PRO28M E/4 - 1ph	833.5	12	HVR30	250	240	<b>235</b>	195	185
PRO28M F/4 - 1ph	949	6	HVR30	290	283	<b>275</b>	235	220
PRO28L G/4 - 1ph	1034	6	HVR30	315	307	<b>300</b>	270	240
PRO35S B/4 - 1ph	1184	12	HVR30	370	360	<b>340</b>	310	275
PRO35S C/4 - 1ph	1262.5	6	HVR30	420	400	<b>380</b>	345	310
PRO35S D/4 - 1ph	1342.5	12	HVR30	450	435	<b>415</b>	375	340
PRO35M E/4 - 1ph	1494	6	HVR30	480	470	<b>445</b>	410	360
PRO35M F/4 - 1ph	1500.5	6	HVR30	540	520	<b>495</b>	450	410
PRO35M G/4 - 1ph	1658	12	HVR30	580	565	<b>540</b>	480	440
PRO35L H/4 - 1ph	1867	6	HVR30	660	635	<b>590</b>	570	475

**BRUSHLESS ALTERNATORS WITH AVR**  
**4 POLES - 1800RPM - 60HZ**  
**266V - 1 PHASE - RECONNECTED**



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	12	HVR11	6	5.7	<b>5.2</b>	4.7	4.2
E1X13S B/4 - 1ph	69.9	12	HVR11	7.4	7	<b>6.5</b>	6	5.4
E1X13S C/4 - 1ph	76.5	12	HVR11	9	8.7	<b>8</b>	7.3	6.3
E1X13M E/4 - 1ph	96	12	HVR11	12.8	12.4	<b>11.4</b>	10.4	9.2
E1X13M F/4 - 1ph	100	12	HVR11	14.4	13.8	<b>12.7</b>	11.7	10.2
SLT18M C/4 - 1ph	92	12	HVR11	13.5	13	<b>12</b>	11	10
SLT18M D/4 - 1ph	100	12	HVR11	17.5	17	<b>15.6</b>	14.5	12.5
PRO18S A/4 - 1ph	121	12	HVR11	17.5	17	<b>15.6</b>	14.5	12.5
PRO18S B/4 - 1ph	134.5	12	HVR11	22.8	22	<b>20</b>	18.5	16
PRO18S C/4 - 1ph	150	12	HVR11	26.5	25.7	<b>23.5</b>	21.5	19
PRO18M D/4 - 1ph	170	12	HVR11	30.5	29.5	<b>27</b>	24.7	22
PRO18M E/4 - 1ph	200	12	HVR11	36	35	<b>32</b>	29	26
PRO18L F/4 - 1ph	236.5	12	HVR11	42	41	<b>38</b>	34.5	31
PRO18L G/4 - 1ph	267.5	12	HVR11	51	49	<b>47</b>	43	38
PRO22S A/4 - 1ph	280	12	HVR11	56	54	<b>50</b>	46	40
PRO22S B/4 - 1ph	295	12	HVR11	64	62	<b>58</b>	54	47
PRO22S C/4 - 1ph	341	12	HVR11	75	72	<b>66</b>	62	53
PRO22S D/4 - 1ph	379	12	HVR11	88	86	<b>78</b>	73	63
PRO22M E/4 - 1ph	454	12	HVR11	115	109	<b>102</b>	94	78
PRO22M F/4 - 1ph	449	12	HVR11	133	127	<b>117</b>	110	87
PRO22M G/4 - 1ph	449	6	HVR11	143	136	<b>125</b>	114	100
PRO28S A/4 - 1ph	564	12	HVR30	156	152	<b>140</b>	125	112
PRO28S B/4 - 1ph	591	12	HVR30	172	170	<b>156</b>	137	125
PRO28S C/4 - 1ph	668	12	HVR30	205	200	<b>176</b>	156	140
PRO28S D/4 - 1ph	730.5	12	HVR30	220	210	<b>200</b>	165	156
PRO28M E/4 - 1ph	833.5	12	HVR30	250	240	<b>235</b>	195	185
PRO28M F/4 - 1ph	949	6	HVR30	290	283	<b>275</b>	235	220
PRO28L G/4 - 1ph	1034	6	HVR30	325	320	<b>315</b>	280	240
PRO35S B/4 - 1ph	1184	12	HVR30	385	380	<b>355</b>	320	290
PRO35S C/4 - 1ph	1262.5	6	HVR30	430	415	<b>390</b>	350	320
PRO35S D/4 - 1ph	1342.5	12	HVR30	475	450	<b>430</b>	385	350
PRO35M E/4 - 1ph	1494	6	HVR30	515	495	<b>470</b>	430	385
PRO35M F/4 - 1ph	1500.5	6	HVR30	570	550	<b>525</b>	475	430
PRO35M G/4 - 1ph	1658	12	HVR30	620	600	<b>570</b>	510	460
PRO35L H/4 - 1ph	1867	6	HVR30	700	675	<b>625</b>	610	510

**BRUSHLESS ALTERNATORS WITH AVR**  
**4 POLES - 1800RPM - 60HZ**  
**277V - 1 PHASE - RECONNECTED**



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	12	HVR11	6	5.7	<b>5.2</b>	4.7	4.2
E1X13S B/4 - 1ph	69.9	12	HVR11	7.4	7	<b>6.5</b>	6	5.4
E1X13S C/4 - 1ph	76.5	12	HVR11	9	8.7	<b>8</b>	7.3	6.3
E1X13M E/4 - 1ph	96	12	HVR11	12.8	12.4	<b>11.4</b>	10.4	9.2
E1X13M F/4 - 1ph	100	12	HVR11	14.4	13.8	<b>12.7</b>	11.7	10.2
SLT18M C/4 - 1ph	92	12	HVR11	13.5	13	<b>12</b>	11	10
SLT18M D/4 - 1ph	100	12	HVR11	17.5	17	<b>15.6</b>	14.5	12.5
PR018S A/4 - 1ph	121	12	HVR11	17.5	17	<b>15.6</b>	14.5	12.5
PR018S B/4 - 1ph	134.5	12	HVR11	22.8	22	<b>20</b>	18.5	16
PR018S C/4 - 1ph	150	12	HVR11	26.5	25.7	<b>23.5</b>	21.5	19
PR018M D/4 - 1ph	170	12	HVR11	30.5	29.5	<b>27</b>	24.7	22
PR018M E/4 - 1ph	200	12	HVR11	36	35	<b>32</b>	29	26
PR018L F/4 - 1ph	236.5	12	HVR11	43	42	<b>39</b>	35	31.5
PR018L G/4 - 1ph	267.5	12	HVR11	51	49	<b>47</b>	43	38
PR022S A/4 - 1ph	280	12	HVR11	56	54	<b>50</b>	46	40
PR022S B/4 - 1ph	295	12	HVR11	64	62	<b>58</b>	54	47
PR022S C/4 - 1ph	341	12	HVR11	75	72	<b>66</b>	62	53
PR022S D/4 - 1ph	379	12	HVR11	88	86	<b>78</b>	73	63
PR022M E/4 - 1ph	454	12	HVR11	115	109	<b>102</b>	94	81
PR022M F/4 - 1ph	449	12	HVR11	133	127	<b>117</b>	110	87
PR022M G/4 - 1ph	449	6	HVR11	143	136	<b>125</b>	114	100
PR028S A/4 - 1ph	564	12	HVR30	156	152	<b>140</b>	125	112
PR028S B/4 - 1ph	591	12	HVR30	172	170	<b>156</b>	137	125
PR028S C/4 - 1ph	668	12	HVR30	205	200	<b>176</b>	156	140
PR028S D/4 - 1ph	730.5	12	HVR30	220	210	<b>200</b>	165	156
PR028M E/4 - 1ph	833.5	12	HVR30	250	240	<b>235</b>	195	185
PR028M F/4 - 1ph	949	6	HVR30	290	283	<b>275</b>	235	220
PR028L G/4 - 1ph	1034	6	HVR30	325	320	<b>315</b>	280	240
PR035S B/4 - 1ph	1184	12	HVR30	385	380	<b>355</b>	320	290
PR035S C/4 - 1ph	1262.5	6	HVR30	430	415	<b>390</b>	350	320
PR035S D/4 - 1ph	1342.5	12	HVR30	475	450	<b>430</b>	385	350
PR035M E/4 - 1ph	1494	6	HVR30	515	495	<b>470</b>	430	385
PR035M F/4 - 1ph	1500.5	6	HVR30	570	550	<b>525</b>	475	430
PR035M G/4 - 1ph	1658	12	HVR30	620	600	<b>570</b>	510	460
PR035L H/4 - 1ph	1867	6	HVR30	700	675	<b>625</b>	610	510

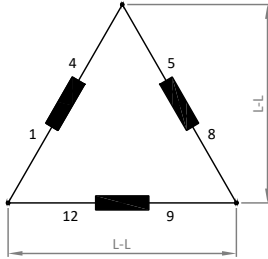
**BRUSHLESS ALTERNATORS WITH AVR**  
**4 POLES - 1800RPM - 60HZ**  
**240V - 1 PHASE - DEDICATED**



MODEL	WEIGHT [kg]	LEADS	AVR	kVA				
				163°C/27°C	150°C/40°C	125°C/40°C [H]	105°C/40°C [F]	80°C/40°C [B]
E1X13S A/4 - 1ph	63.5	4	HVR11	7	6.5	<b>6</b>	5.5	4.8
E1X13S B/4 - 1ph	69.9	4	HVR11	8	7.5	<b>7</b>	7	6
E1X13S C/4 - 1ph	76.5	4	HVR11	10	9.5	<b>9</b>	8	7
E1X13M E/4 - 1ph	96	4	HVR11	14	13	<b>12.5</b>	11.5	10
E1X13M F/4 - 1ph	100	4	HVR11	16	15.5	<b>14</b>	13	11.5
SLS18M C/4	90	4	HVR11	14	13	<b>12</b>	11	9.5
SLS18M D/4	99	4	HVR11	20	18.5	<b>18</b>	16.5	14.5
PR018S A/4 - 1ph	121	4	HVR11	20	18.5	<b>18</b>	16.5	14.5
PR018S B/4 - 1ph	134.5	4	HVR11	25	23.5	<b>22</b>	20	17.5
PR018S C/4 - 1ph	150	4	HVR11	30	28	<b>26.5</b>	24.5	21.5
PR018M D/4 - 1ph	170	4	HVR11	34.5	33	<b>30.5</b>	28	24.5
PR018M E/4 - 1ph	200	4	HVR11	41.5	40	<b>36.5</b>	34.5	30
PR018L F/4 - 1ph	236.5	4	HVR11	50	46.5	<b>44</b>	39.5	34.5
PR018L G/4 - 1ph	267.5	4	HVR11	60	55.5	<b>52.5</b>	48	42
PR022S A/4 - 1ph	280	4	HVR11	61	58	<b>54</b>	50	44
PR022S B/4 - 1ph	295	4	HVR11	72	69	<b>65</b>	60	55
PR022S C/4 - 1ph	341	4	HVR11	79	76	<b>72</b>	67	60
PR022S D/4 - 1ph	379	4	HVR11	95	91	<b>86</b>	80	72
PR022M E/4 - 1ph	454	4	HVR11	123	118	<b>112</b>	103	95
PR022M F/4 - 1ph	499	4	HVR11	136	130	<b>125</b>	118	110

# BRUSHLESS ALTERNATORS WITH AVR CONNECTION DIAGRAMS

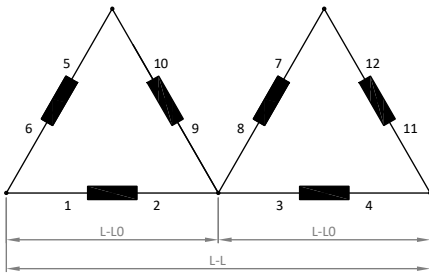
## DELTA



Hz	L-L
50	220
	230
	240
	254
60	240
	254
	266
	277

## DOUBLE DELTA

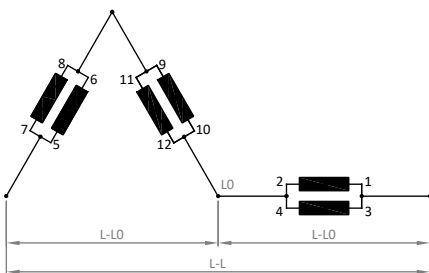
Single Phase Connection



Hz	L-L	L-LO
50	220	110
	230	115
	240	120
	254	127
60	240	120
	254	127
	266	133
	277	138

## PARALLEL LOW ZIGZAG

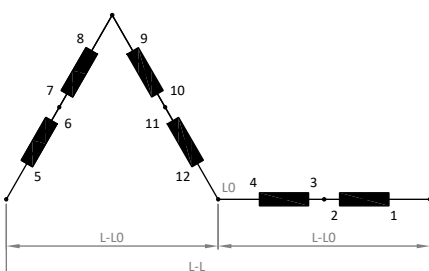
Single Phase Connection



Hz	L-L	L-LO
50	220	110
	230	115
	240	120
	254	127
60	240	120
	254	127
	266	133
	277	138

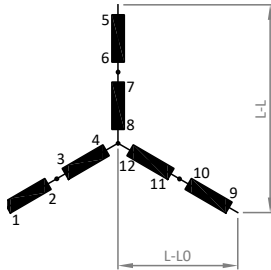
## SERIES HIGH ZIGZAG

Single Phase Connection



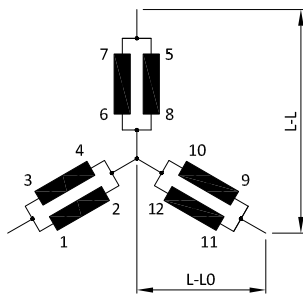
Hz	L-L	L-LO
50	440	220
	460	230
	480	240
	508	254
60	480	240
	508	254
	532	266
	554	277

### SERIES HIGH WYE



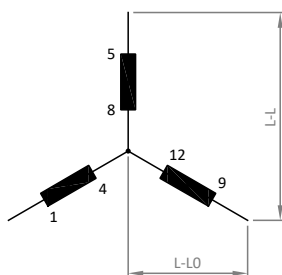
Hz	L-L	L-LO
50	380	220
	400	230
	415	240
	440	254
60	415	240
	440	254
	460	266
	480	277

### PARALLEL LOW WYE



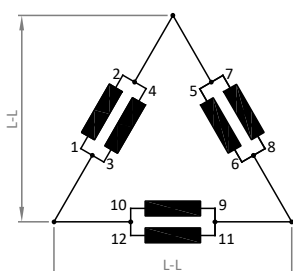
Hz	L-L	L-LO
50	190	110
	200	115
	208	120
	220	127
60	208	120
	220	127
	230	133
	240	138

### WYE



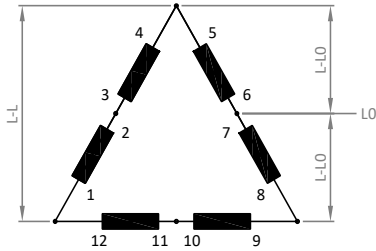
Hz	L-L	L-LO
50	380	220
	400	230
	415	240
	440	254
60	415	240
	440	254
	460	266
	480	277

### PARALLEL LOW DELTA



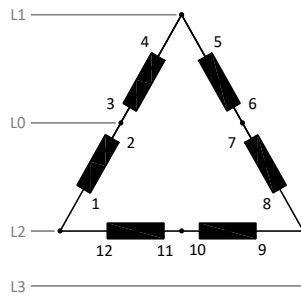
Hz	L-L
50	110
	115
	120
	127
60	120
	127
	133
	138

### SERIES HIGH DELTA



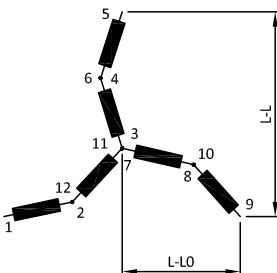
Hz	L-L	L-L0
50	220	110
	230	115
	240	120
	254	127
60	240	120
	254	127
	266	133
	277	138

### 3 PHASE 4 WIRES DELTA WITH NEUTRAL



Hz	L-L	L1-L0	L2-L0	L3-L0
50	220	110	110	190
	230	115	115	200
	240	120	120	208
	254	127	127	220
60	240	120	120	208
	254	127	127	220
	266	133	133	230
	277	138	138	240

### ZIGZAG



Hz	L-L	L-L0
50	330	190
	346	200
	360	208
	380	220
60	360	208
	380	220
	400	230
	415	240





