



alimar[®]

AA SERIES ALTERNATOR GROUPS
AA SERİSİ ALTERNATÖR GRUPLARI





ALİMAR ALTERNATOR

Alimar alternators are specially designed for stand-by and prime applications, long strength and high efficiency industrial alternators. We are manufacturing the industry's top-line alternators with years of the experience

ALİMAR ALTERNATÖR

Alimar alternatörler Stand-by ve Prime uygulamalarda ihtiyaca özel dizayn edilmiş uzun ömürlü ve yüksek verimli endüstriyel alternatörlerdir. Yılların verdiği deneyim ile sektörün öncü alternatörlerini üretmekteyiz.



INTERNATIONAL STANDARDS

Alimar alternator produced according to IEC EN 60034 standard. Complies with standards like BS5000, VDE0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359

ULUSLARARASI STANDARTLAR

Alimar alternatör IEC EN 60034 standartlarına uygun olarak üretilmiş olup, BS5000, VDE0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359 gibi uluslararası standartları karşılamaktadır.



ELECTRICAL DESIGN

- Self excited, brushless
- "H" class insulation
- Low voltage winding
- Optimized performance
- Suitable for 50hz and 60 hz use
- Switchable voltage values
- Electronic AVR
- Interchangeable windings between star or delta connection
- High short circuit current resistance
- Power factor 0,8
- No de-rating up to 1000m and 40°C

ELEKTRİKSEL DİZAYN

- Kendinden ikazlı, fırçasız
- "H" sınıfı izolasyon
- Düşük Gerilim Sargısı
- Optimize Performans
- 50 Hz ve 60 Hz kullanıma uygun
- Değiştirilebilir voltaj değerleri
- Elektronik AVR
- Yıldız veya üçgen bağlantı arasında değiştirilebilir sargılar
- Yüksek kısa devre akımı dayanımı
- Güç Faktörü 0,8
- 1000m ve 40°C ye kadar güç düşümsüz



MECHANICAL DESIGN

- Compact desing resistance to vibration of the engine
- Steel frame
- Single bearing design
- Clockwise cycle
- Easy to access AVR and Terminal Box

MEKANİK DİZAYN

- Motorun titreşimlerine dayanıklı kompakt tasarım
- Çelik kasa
- Tek yataklı tasarım
- Saat yönünde çevrim
- Ulaşımı kolay AVR ve Terminal kutusu



AA Series / Serisi

THREE PHASE, BRUSHLESS, SYNCHRONOUS ALTERNATOR
ÜÇ FAZLI, FIRÇASIZ, SENKRON ALTERNATÖR



AA 224

TECHNICAL DATA SHEET / TEKNİK ÖZELLİKLER

50 Hz, CLASS / SINIF "H"

RATINGS / DEĞERLER	POWER FACTOR / GÜÇ FAKTÖRÜ 0.8													
	CONTINUOUS / SÜREKLİ 40°C						STANDBY 27°C							
DUTY / ÇALIŞMA TİPİ AMBIENT TEMP. / ORTAM SICAKLIĞI														
TEMP RISE / SICAKLIK ARTIŞI	H (125°C)						H (163°C)							
PHASE / FAZ	3 PHASE / FAZ						3 PHASE / FAZ							
SERIES STAR YILDIZ BAĞLANTI	Y	380	400	415	380	400	415	380	400	415	380	400	415	
PARALLEL STAR PARALEL YILDIZ BAĞLANTI	YY	190	200	208	190	200	208	190	200	208	190	200	208	
SERIES DELTA ÜÇGEN BAĞLANTI	Δ	220	230	240	220	230	240	220	230	240	220	230	240	
MODEL	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
AA224C	42.5	34	42.5	34	42.5	34	47	37.6	47	37.6	47	37.6	47	37.6
AA224D	50	40	50	40	50	40	55	44	55	44	55	44	55	44
AA224E	63	50.4	63	50.4	63	50.4	71	56.8	71	56.8	71	56.8	71	56.8
AA224F	72.5	58	72.5	58	72.5	58	80	64	82	64	80	64	80	64
AA224G	85	68	85	68	85	68	91	72.8	91	72.8	91	72.8	91	72.8

60 Hz, CLASS / SINIF "H"

RATINGS / DEĞERLER	POWER FACTOR / GÜÇ FAKTÖRÜ 0.8													
	CONTINUOUS / SÜREKLİ 40°C						STANDBY 27°C							
DUTY / ÇALIŞMA TİPİ AMBIENT TEMP. / ORTAM SICAKLIĞI														
TEMP RISE / SICAKLIK ARTIŞI	H (125°C)						H (163°C)							
PHASE / FAZ	3 PHASE / FAZ						3 PHASE / FAZ							
SERIES STAR YILDIZ BAĞLANTI	Y	416	440	460	416	440	460	416	440	460	416	440	460	
PARALLEL STAR PARALEL YILDIZ BAĞLANTI	YY	208	220	230	208	220	230	208	220	230	208	220	230	
SERIES DELTA ÜÇGEN BAĞLANTI	Δ	240	254	266	240	254	266	240	254	266	240	254	266	
MODEL	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
AA224C	50	40	52.5	42	52.5	42	56.3	45	56.3	45	56.3	45	56.3	45
AA224D	60	48	62.5	50	62.5	50	65	52	66.3	53	66.3	53	66.3	53
AA224E	70	56	70	56	70	56	77	61.6	77	61.6	77	61.6	77	61.6
AA224F	83.8	67	87.5	70	87.5	70	91.9	73.5	95	76	95	76	95	76
AA224G	93.8	75	97.5	78	100	80	101.3	81	106.3	85	106.3	85	106.3	85

> Enerji Çözüm Ortağınız

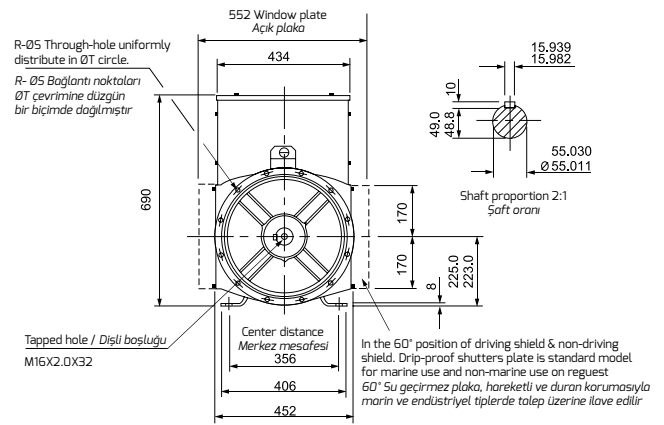
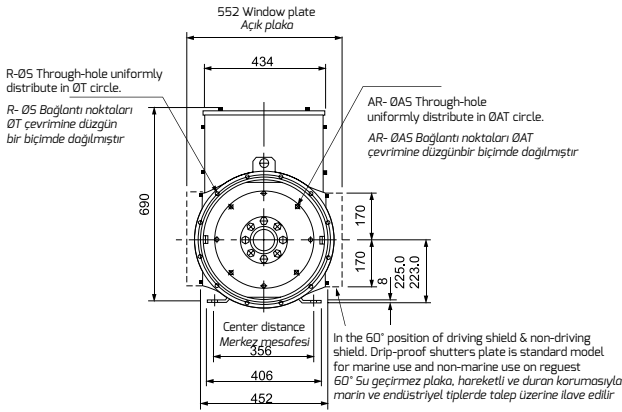
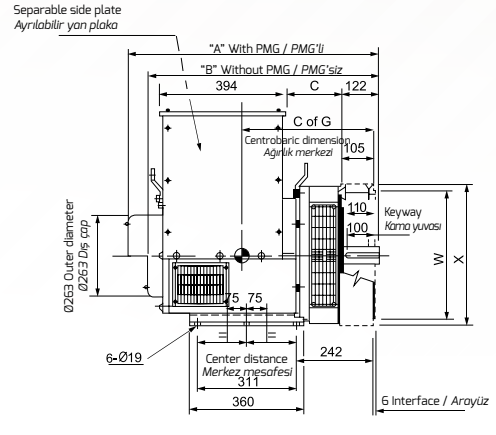
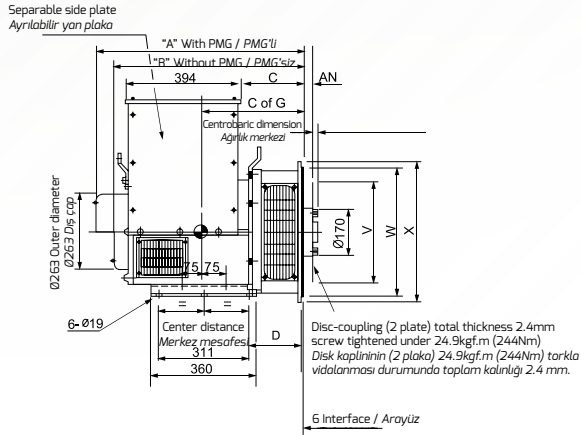
> Your Solution Partner in Energy

AA 224

OVERALL DIMENSIONS / ÖLÇÜLER

SINGLE BEARING / TEK YATAKLI

DOUBLE BEARING / ÇİFT YATAKLI



DIMENSIONS / BOYUTLAR (mm)					SHIPPING DIMENSIONS SEVKİYAT BOYUTLARI			
Model	A	B	C	C of G	Net Weight Net Ağırlık (kg)	Gross Weight Brüt Ağırlık (kg)	LxWxH(mm)	
SAE 4	AA224C	734	671	233.5	323	235	255	820x540x870
	AA224D	734	671	233.5	333	250	270	820x540x870
	AA224E	824	761	323.5	348	270	290	890x540x870
	AA224F	824	761	323.5	358	310	330	890x540x870
	AA224G	869	806	368.5	373	350	370	930x540x875
SAE 3	AA224C	710	647	210	311	235	255	820x540x870
	AA224D	710	647	210	321	250	270	820x540x870
	AA224E	800	737	300	336	270	290	890x540x870
	AA224F	800	737	300	346	310	330	890x540x870
	AA224G	845	782	345	361	350	370	930x540x875

DIMENSIONS / BOYUTLAR (mm)					SHIPPING DIMENSIONS SEVKİYAT BOYUTLARI		
Model	A	B	C	C of G	Net Weight Net Ağırlık (kg)	Gross Weight Brüt Ağırlık (kg)	LxWxH(mm)
AA224C	792	729	170	368	250	275	820x540x870
AA224D	792	729	170	378	270	295	820x540x870
AA224E	882	819	260	393	290	315	930x540x875
AA224F	882	819	260	403	320	345	930x540x875
AA224G	927	864	305	418	360	385	930x540x875

FLANGE / FLANŞ (mm)						
S.A.E.NO.	D	R	S	T	U°	W
2	200.5	12	11	466.7	447.6	490
3	177	12	11	428.6	409.5	451
4	177	12	11	381.0	361.9	451

FLANGE / FLANŞ (mm)					
S.A.E.NO.	R	S	T	W	X
2	12	11	466.7	447.6	495
3	12	11	428.6	409.5	451
4	12	11	381.0	361.9	403
5	8	11	333.3	314.3	356

DISC COUPLING / DISK KAPLIN (mm)					
S.A.E.NO.	AN	AR	AS	AT	V
8	61.9	6	11	244.4	263.4
10	53.98	8	11	295.3	314.2
11.5	39.68	8	11	333.3	352.3
14	25.40	8	13.5	438.2	466.6

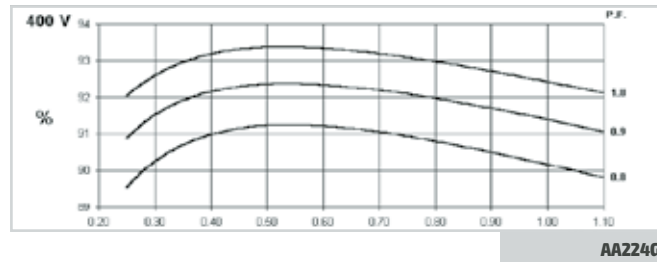
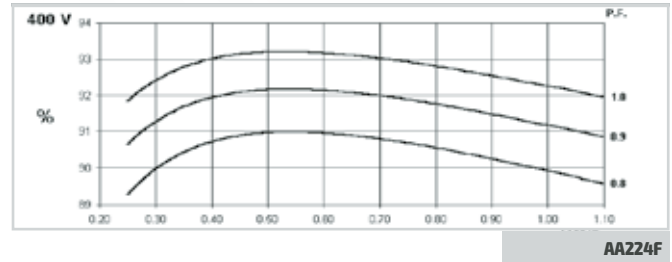
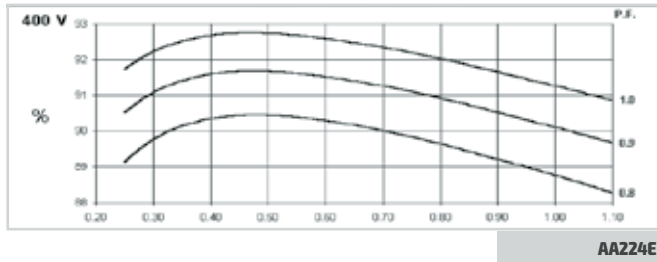
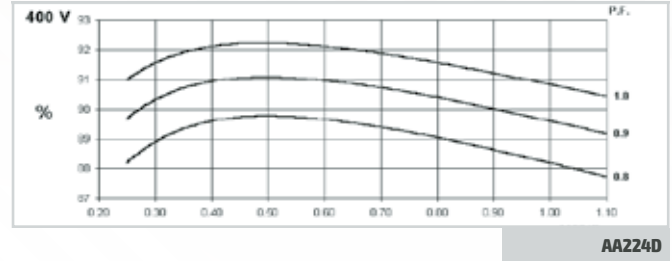
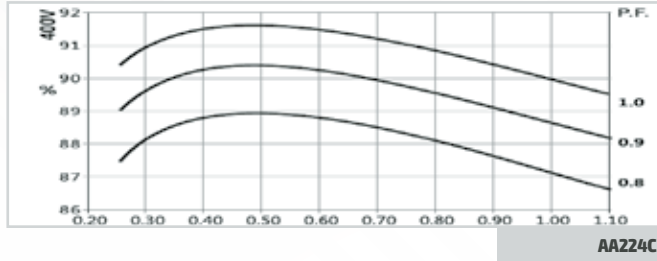
SINGLE BEARING SAE NO SELECTOR / TEK YATAK SAE NO SEÇİMİ			
SAE NO	SAE 8	SAE 10	SAE 11.5
SAE 2			.
SAE 3		.	.
SAE 4	.	.	

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EFFICIENCY CURVES / VERİM GRAFİKLERİ

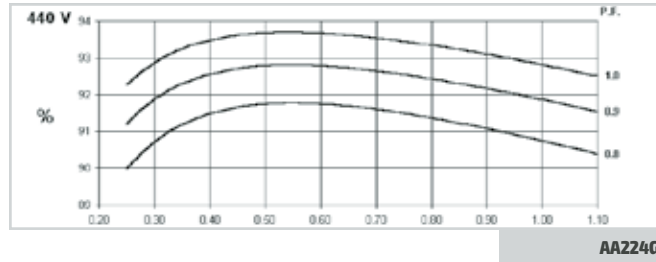
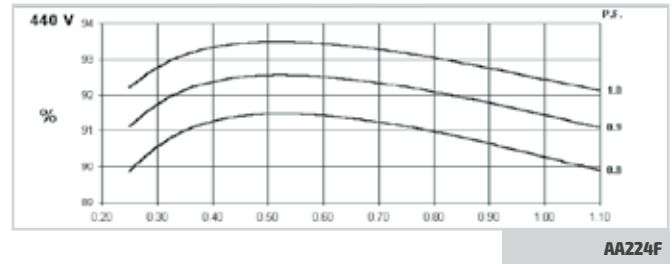
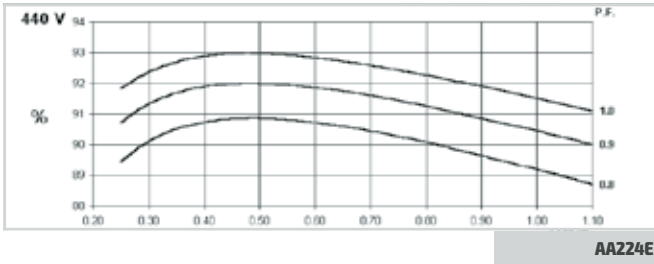
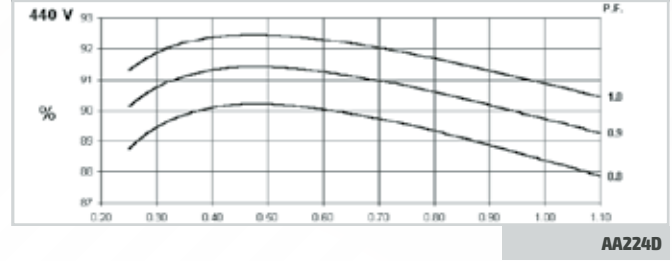
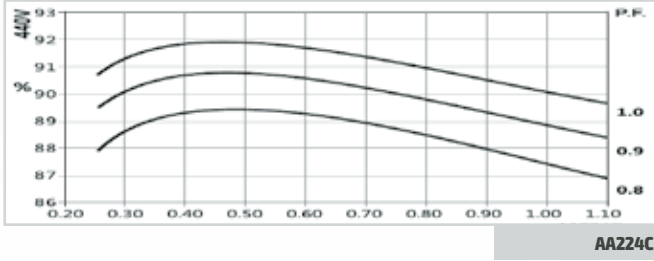


50 Hz



VOLTAGE SERIES STAR 400/230 50Hz					
MODEL	AA224C	AA224D	AA224E	AA224F	AA224G
Xd DIR. AXIS SYNCHRONOUS	2.19	2.10	2.24	2.07	2.20
X'd DIR. AXIS TRANSIENT	0.17	0.16	0.17	0.16	0.17
X''d DIR. AXIS SUBTRANSIENT	0.11	0.11	0.12	0.11	0.12
Xq QUAD. AXIS REACTANCE	1.01	0.97	1.02	0.95	1.01
X''q QUAD. AXIS SUBTRANSIENT	0.16	0.13	0.13	0.14	0.15
XL LEAKAGE REACTANCE	0.08	0.06	0.08	0.06	0.06
X2 NEGATIVE SEQUENCE	0.14	0.12	0.12	0.13	0.14
X0 ZERO SEQUENCE	0.10	0.08	0.10	0.10	0.10
T'd TRANSIENT TIME CONST. (s)	0.025 s	0.027 s	0.028 s	0.03 s	0.03 s
T''d SUB-TRANSTIME CONST. (s)	0.006 s	0.006 s	0.007 s	0.008 s	0.008 s
T''do O.C. FIELD TIME CONST. (s)	0.65 s	0.7 s	0.7 s	0.75 s	0.75 s
Ta ARMATURE TIME CONST. (s)	0.005 s	0.0055 s	0.006 s	0.0065 s	0.007 s
SHORT CIRCUIT RATIO	1/Xd	1/Xd	1/Xd	1/Xd	1/Xd

60 Hz



VOLTAGE SERIES STAR 440/254 60Hz					
MODEL	AA224C	AA224D	AA224E	AA224F	AA224G
Xd DIR. AXIS SYNCHRONOUS	2.84	2.83	2.78	2.35	2.47
X'd DIR. AXIS TRANSIENT	0.21	0.20	0.20	0.20	0.19
X''d DIR. AXIS SUBTRANSIENT	0.14	0.14	0.14	0.13	0.13
Xq QUAD. AXIS REACTANCE	1.31	1.30	1.28	1.08	1.13
X''q QUAD. AXIS SUBTRANSIENT	0.13	0.13	0.13	0.12	0.14
XL LEAKAGE REACTANCE	0.09	0.08	0.08	0.07	0.07
X2 NEGATIVE SEQUENCE	0.13	0.13	0.13	0.12	0.14
X0 ZERO SEQUENCE	0.09	0.08	0.08	0.09	0.10
T'd TRANSIENT TIME CONST. (s)	0.025 s	0.027 s	0.028 s	0.03 s	0.03 s
T''d SUB-TRANSTIME CONST. (s)	0.006 s	0.006 s	0.007 s	0.008 s	0.008 s
T''do O.C. FIELD TIME CONST. (s)	0.65 s	0.7 s	0.7 s	0.75 s	0.75 s
Ta ARMATURE TIME CONST. (s)	0.005 s	0.0055 s	0.006 s	0.0065 s	0.007 s
SHORT CIRCUIT RATIO	1/Xd	1/Xd	1/Xd	1/Xd	1/Xd