

ARKEN®

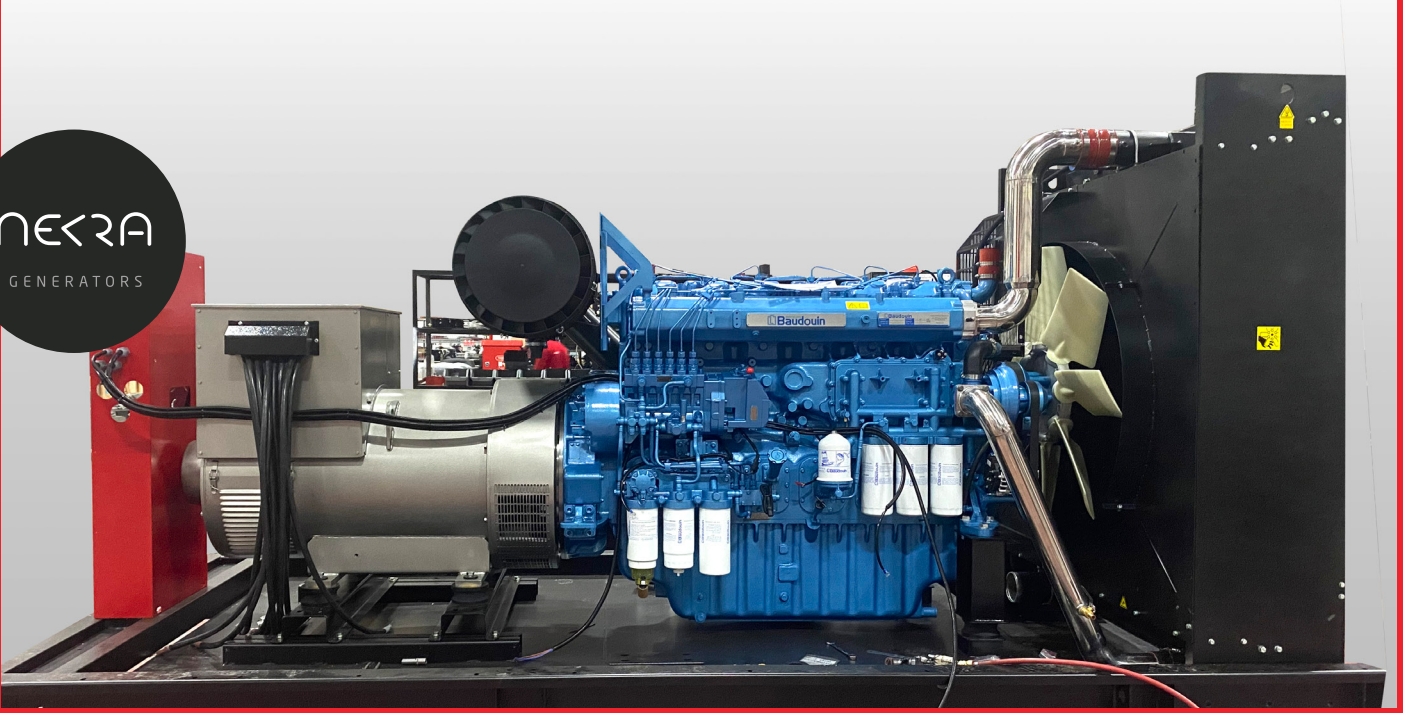


NEKRA ALTERNATÖR

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Nekra, Arken Jeneratör'ün yerli alternatör stratejisinin ürünüdür.

NEKRA; senkron alternatör, orta gerilim alternatörü ve marin alternatörlerinin tüm üretim ve model serilerini tasarlamaktadır.

Nekra alternatör, Arken tarafından Stamford Markası için de üretim yapan CE Normlarına uygun uluslararası kalite belgelerine sahip firmaya ürettirilmektedir.

Marka tescil belgesine sahip Nekra Alternatörler, uluslararası alternatör kalite standartlarına sahiptir.

Nekra alternatörler, Arken'in 20 yılı aşkın uzman mühendislik kalitesi ve çözümleriyle ön plana çıkmaktadır.

Arken Jeneratör, yurt içindeki projelerde olduğu gibi, 72 ülkeye ihracat yaptığı yurt dışı projelerde de güvenle kullanılmaktadır.



DATA SHEET - A.R.K 164

TEKNİK ÖZELLİKLER VE OPSİYONLAR

Standartlar

- ARK serisi alternatörler uluslararası standart ve şartnamelerin birçoğuna uygunluk gösterir. Bunlar:
 - IEC60034, GB755, BS5000, VDE0530, NEMA, MG122,C22.2-100, CSA, AS1359 vb.
- ARK serisi alternatörler ISO9001 kalite sistemi sertifikalıdır.
- ARK serisi alternatörler CE işaretli jeneratör setlerinde kullanılabilir.
- Talep edilmesi durumunda diğer standartlara uygun imalat imkanı vardır.

Elektriksel Karakteristikler

- Yalıtım ve Emprenye
Tüm sargı bileşenleri jeneratör uygulamalarında karşılaşılan sert ortamlara karşı koruma sağlamak üzere özel tasarlanmış malzeme ve proses ile emprenye edilmiştir.
- 3 faz sargısından gelen 12 uç terminallere taşınarak farklı bağlantı şekilleri mümkün kılınmaktadır.
- 2/3 sarım adımı (pitch) doğrusal olmayan yüklerin sorunsuz beslenmesi açısından şu anda mevcut en optimum dizayn olarak üçüncü derece gerilim harmoniklerine (3., 9.,15...) mani olur.
- Bastırma derecesi
- Radyo parazitleri
- Yüksek verim ve yol verme kabiliyeti

İkaz ve Gerilim Düzenleme (Regülasyon) Sistemleri

MODEL	16 series	18 series	22 series	27 series	4 series	5 series	6 series	7 series
AVR								
SX460	Standart	Standart	Standart	Standart				
AS440(parallel optional)	Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel				
SX440(parallel optional)			Opsiyonel	Opsiyonel	Standart	Standart		
MX341(with PMG)			Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel		
MX321(with PMG)							Standart	Standart

Kendinden ikazlı sistem sayesinde ana stator Otomatik Gerilim Düzenleyici (AVR- Automatic Voltage Regulator) üzerinden ikaz statorunu besler. Yüksek verimli AVR gerilimin ikaz rotor çıkışı tam dalga köprü doğrultucu üzerinden ana rotoru besler.

- Çelik yapı
- Döküm alüminyumdan ön ve arka kapaklar
- Çalışma esnasındaki titreşimi önemli ölçüde azaltan rijit imalat.
- Tüm rotorlar BS6861'e uygun olarak dinamik balanslıdır.
- Bakımsız, ömür boyu sızdırmaz rulman yatak
- %120 aşırı hız dayanım
- Standart Özellikler
- Opsiyonlar
 - Giriş-çıkış filtreleri, %5 güç düşümüyle
 - Giriş-çıkış filtreleri, %10 güç düşümüyle (IP44)
 - Yoğunlaşma önleyici ısıtıcı
 - Stator sargıları ve yataklar için aşırı ısınma koruması
 - Merkez yüksekliği ihtiyaca göre ayarlanabilir.

Uygulama

Primer/yedek güç sistemleri, kiralama, telekom, mobil elektrik santralleri, aydınlatma kuleleri, demir yolları, soğutucular.

Kalite Güvence

ARK Serisi alternatörler ISO9001 kalite güvence sistemi kapsamında uygulanan üretim prosedürlerine uygun olarak imal edilmektedirler.

Not: Sürekli ürün gelişimine bağlı olarak ürün özelliklerinde haber vermeden değişiklik yapılabilmekte olduğundan, burada verilen bilgiler bağlayıcı değildir.

GENEL BİLGİLER

İZOLASYON SİSTEMİ	H	KONTROL SİSTEMİ	KENDİNDEN UYARMALI
ANMA GÜÇ FAKTÖRÜ	0.8	YÜKSEKLİK	1000m
KORUMA	IP23	AŞIRI HIZ	2250 Devir/Dakika
STATOR SARGISI	EŞZAMANLI ÇİFT KATMAN	DALGA FORM SAPMASI	
ADIM	2/3	YÜKSÜZ < %1.5 SAPMA OLMAYAN DENGELENMİŞ LINEAR YÜK	
SARGI UÇLARI	12	< %5.0	

TELEFON PARAZİTİ	THF<%250HZ		THF<%2 60HZ		
UYARTIM SİSTEMİ	SX460	SX440	AS440	MX341	MX321
VOLTAJ REGÜLASYON ORANI	%±1.5	±%1.0	±%1.0	±%1.0	±%0.5
DÜŞÜK VOLTAJ KORUMASI	Standart	Standart	Standart	Standart	Standart
KISA DEVRE ELEKTRİK KABİLİYETİ				%300:10S	%300:10S
PARALEL OPERASYON		Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel

POWER - 1500 RPM
KVA/KW - Power Factor=0,8

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50HZ	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel S tar (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)□	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	A.R.K164A	kVA	7.5	7.5	7.5	5.7	8.1	8.1	8.1	6.2	8.5	8.6	8.6	6.5	8.9	9.0	9.0
		kW	6.0	6.0	6.0	4.6	6.5	6.5	6.5	5.0	6.8	6.9	6.9	5.2	7.1	7.2	7.2
	Efficiency (%)		76.5	77.2	77.5	78.0	75.5	76.2	76.6	77.2	77.5	77.8	75.5	75.3	73.9	73.8	74.2
	A.R.K164B	kVA	10.0	10.0	10.0	7.7	11.0	11.0	11.0	8.5	11.4	11.5	11.5	8.9	12.0	11.9	12.1
		kW	8.0	8.0	8.0	6.2	8.8	8.8	8.8	6.8	9.1	9.2	9.2	7.1	9.6	9.5	9.7
	Efficiency (%)		79.9	80.5	80.8	81.3	78.7	79.4	79.8	80.4	79.5	79.8	79.9	79.9	75.1	75.1	75.0
	A.R.K164C	kVA	12.5	12.5	12.5	10.2	13.5	13.5	13.5	11.0	13.8	13.8	13.8	13.3	15.0	15.0	15.0
		kW	10.0	10.0	10.0	8.2	10.8	10.8	10.8	8.8	11.0	11.0	11.0	10.6	12.0	12.0	12.0
	Efficiency (%)		81.0	81.6	81.9	82.4	80.1	80.7	81.1	81.7	72.9	75.3	73.9	74.6	77.4	77.8	78.0
	A.R.K164D	kVA	15.0	15.0	15.0	12.7	16.0	16.0	16.0	13.5	17.5	17.5	17.5	17.0	18.9	18.9	18.9
		kW	12.0	12.0	12.0	10.2	12.8	12.8	12.8	10.8	14.0	14.0	14.0	13.6	15.1	15.1	15.1
	Efficiency (%)		81.8	82.4	82.8	83.2	81.0	81.7	82.1	82.6	78.1	78.6	78.8	79.3	77.5	78.1	78.4
Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
60HZ	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel S tar (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Series Delta (V)□	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	A.R.K164A	kVA	8.9	9.4	9.4	9.4	9.6	10.2	10.2	10.2	9.8	9.9	9.9	7.5	10.2	10.4	10.4
		kW	7.1	7.5	7.5	7.5	7.7	8.2	8.2	8.2	7.8	7.9	7.9	6.0	8.2	8.3	8.3
	Efficiency (%)		76.7	76.9	77.4	77.9	75.7	75.8	76.4	77.0	77.1	77.1	77.2	77.2	77.1	77.8	78.0
	A.R.K164B	kVA	12.0	12.5	12.5	12.5	13.0	13.8	13.8	13.8	13.1	13.2	13.2	10.2	13.8	13.7	13.9
		kW	9.6	10.0	10.0	10.0	10.4	11.0	11.0	11.0	10.5	10.6	10.6	8.2	11.0	10.9	11.1
	Efficiency (%)		79.9	80.3	80.8	81.2	79.0	79.1	79.7	80.2	79.9	79.8	80.1	80.0	79.9	79.8	80.2
	A.R.K164C	kVA	14.8	15.6	15.6	15.6	16.0	16.9	16.9	16.9	16.6	17.6	17.6	17.6	17.9	19.0	19.0
		kW	11.8	12.5	12.5	12.5	12.8	13.5	13.5	13.5	13.3	14.1	14.1	14.1	14.3	15.2	15.2
	Efficiency (%)		81.2	81.4	81.9	82.4	80.3	80.4	81.0	81.5	76.1	76.5	76.8	77.0	75.9	76.2	76.6
	A.R.K164D	kVA	17.8	18.8	18.8	18.8	18.9	20.0	20.0	20.0	19.0	20.1	20.1	20.1	20.5	21.8	21.8
		kW	14.2	15.0	15.0	15.0	15.1	16.0	16.0	16.0	15.2	16.1	16.1	16.1	16.4	17.4	17.4
	Efficiency (%)		82.0	82.2	82.7	83.2	81.3	81.4	82.0	82.5	15.2	16.1	16.1	16.1	16.4	17.4	17.4

Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K164A	50HZ				60HZ			
Series Star (V)	3804	00	4154	40	4164	40	460	480
Parallel Star (V)	1902	00	208	2202	08	2202	30	240
Series Delta (V)	2202	30	2402	54	2402	54	266	277
Xd DIR. AXIS SYNCHRONOUS	1.9941	.800	1.6721	.944	2.3672	.248	2.057	1.889
X'd DIR. AXIS TRANSIENTO	.204	0.1840	.171	0.1990	.242	0.2300	.210	0.193
X" d DIR. AXIS SUBTRANSIENTO	.127	0.115 0	.107	0.1240	.152	0.1440	.132	0.121
Xq QUAD. AXIS REACTANCE0	.992	0.8950	.831	0.9671	.177	1.1171	.022	0.939
X" q QUAD. AXIS SUBTRANSIENTO	.229	0.207 0	.192	0.2230	.272	0.2580	.236	0.217
X L LEAKAGE REACTANCE0	.080	0.072	0.0670	.078	0.0950	.090	0.083	0.076
X 2 NEGATIVE SEQUENCE0	.191	0.1720	.160	0.1860	.226	0.2150	.197	0.181
X 0 ZERO SEQUENCE0	.086	0.078	0.0720	.064	0.1030	.098	0.089	0.082
T'd TRANSIENT TIME CONST.	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s
T" d SUB-TRANSTIME CONST.	0.0035s0	.0035s	0.0035s0	.0035s	0.0035s0	.0035s0	.0035s	0.0035s
T'do O.C. FIELD TIME CONST.	0.25s0	.25s	0.25s0	.25s	0.25s0	.25s	0.25s	0.25s
Ta ARMATURE TIME CONST.	0.0045s0	.0045s	0.0045s0	.0045s	0.0045s0	.0045s	0.0045s	0.0045s

Power Factor=0.8



WINDING 311 P.F.=0.8 A.R.K164B	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	1.969	1.777	1.651	1.901	2.330	2.211	2.023	1.858
X'd DIR. AXIS TRANSIENT	0.201	0.181	0.168	0.194	0.237	0.225	0.206	0.189
X" d DIR. AXIS SUBTRANSIENT	0.125	0.113	0.105	0.120	0.148	0.140	0.128	0.118
Xq QUAD. AXIS REACTANCE	0.978	0.883	0.820	0.945	1.158	1.098	1.005	0.923
X"q QUAD. AXIS SUBTRANSIENT	0.225	0.203	0.189	0.217	0.266	0.252	0.231	0.212
X L LEAKAGE REACTANCE	0.079	0.071	0.066	0.076	0.093	0.088	0.081	0.074
X 2 NEGATIVE SEQUENCE	0.188	0.170	0.158	0.181	0.223	0.212	0.194	0.178
X 0 ZERO SEQUENCE	0.085	0.077	0.072	0.083	0.102	0.096	0.088	0.081
T'd TRANSIENT TIME CONST.	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s
T" d SUB-TRANSTIME CONST.	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s
T'do O.C. FIELD TIME CONST.	0.25s	0.25s	0.25s	0.25s	0.25s	0.25s	0.25s	0.25s
Ta ARMATURE TIME CONST.	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s

WINDING 311 P.F.=0.8 A.R.K164C	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	1.943	1.754	1.629	1.780	2.303	2.174	1.989	1.827
X'd DIR. AXIS TRANSIENT	0.198	0.179	0.166	0.182	0.236	0.223	0.204	0.187
X" d DIR. AXIS SUBTRANSIENT	0.124	0.112	0.104	0.114	0.147	0.139	0.127	0.117
Xq QUAD. AXIS REACTANCE	0.966	0.872	0.810	0.885	1.144	1.081	0.989	0.908
X"q QUAD. AXIS SUBTRANSIENT	0.223	0.201	0.187	0.204	0.263	0.249	0.228	0.209
X L LEAKAGE REACTANCE	0.078	0.070	0.065	0.071	0.092	0.087	0.079	0.073
X 2 NEGATIVE SEQUENCE	0.186	0.168	0.156	0.171	0.221	0.208	0.191	0.175
X 0 ZERO SEQUENCE	0.084	0.076	0.071	0.077	0.100	0.094	0.086	0.079
T'd TRANSIENT TIME CONST.	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s
T" d SUB-TRANSTIME CONST.	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s
T'do O.C. FIELD TIME CONST.	0.25s	0.25s	0.25s	0.25s	0.25s	0.25s	0.25s	0.25s
Ta ARMATURE TIME CONST.	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s

WINDING 311 P.F.=0.8 A.R.K164D	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	1.921	1.734	1.611	1.698	2.272	2.149	1.966	1.806
X'd DIR. AXIS TRANSIENT	0.196	0.177	0.164	0.173	0.231	0.219	0.200	0.184
X" d DIR. AXIS SUBTRANSIENT	0.123	0.111	0.103	0.109	0.146	0.138	0.126	0.116
Xq QUAD. AXIS REACTANCE	0.954	0.861	0.800	0.844	1.129	1.068	0.977	0.897
X"q QUAD. AXIS SUBTRANSIENT	0.220	0.199	0.185	0.194	0.260	0.246	0.225	0.207
X L LEAKAGE REACTANCE	0.078	0.070	0.065	0.068	0.092	0.087	0.079	0.073
X 2 NEGATIVE SEQUENCE	0.184	0.166	0.154	0.162	0.218	0.206	0.188	0.173
X 0 ZERO SEQUENCE	0.083	0.075	0.070	0.073	0.098	0.093	0.085	0.078
T'd TRANSIENT TIME CONST.	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s
T" d SUB-TRANSTIME CONST.	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s
T'do O.C. FIELD TIME CONST.	0.25s	0.25s	0.25s	0.25s	0.25s	0.25s	0.25s	0.25s
Ta ARMATURE TIME CONST.	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s	0.0045s



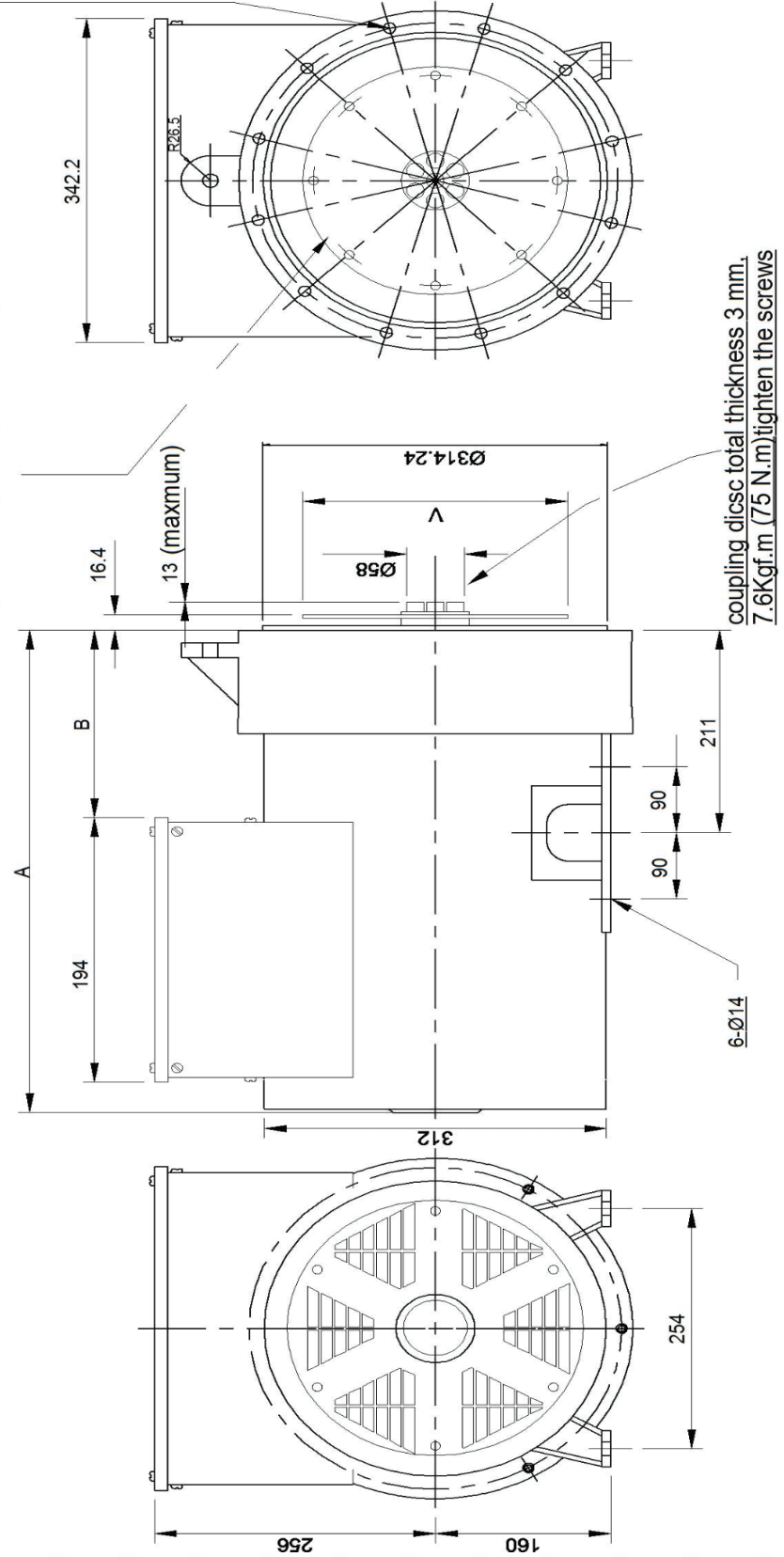
Boyutlar - Tek Yatak

DIMENSION		
MODEL	"A"	"B"
164 A	364,5	179
164 B	364,5	179
164 C	391,5	193
164 D	391,5	193
162 D	364,5	179
162 E	364,5	179
162 F	416,5	218
162 G	416,5	218

COUPLING					
SAE	"AN"	"AM"	"AP"	"AR"	"V"
6,5	30,16	6	8,7	200,0	215,8
7,5	30,16	8	8,7	222,2	241,2
8	61,9	6	11	244,5	263,4

12-Ø11 EQ,SP Ø381 P.C.D

AM-ØAP EQ,SP ØAR P.C.D



DATA SHEET - A.R.K 184

TEKNİK ÖZELLİKLER VE OPSİYONLAR

Standartlar

- ARK serisi alternatörler uluslararası standart ve şartnamelerin birçoğuna uygunluk gösterir. Bunlar:
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- ARK serisi alternatörler ISO9001 kalite sistemi sertifikalıdır.
- ARK serisi alternatörler CE işaretli jeneratör setlerinde kullanılabilir.
- Talep edilmesi durumunda diğer standartlara uygun imalat imkanı vardır.

Elektriksel Karakteristikler

- Yalıtım ve Emprenye
Tüm sarğı bileşenleri jeneratör uygulamalarında karşılaşılan sert ortamlara karşı koruma sağlamak üzere özel tasarlanmış malzeme ve proses ile emprenye edilmiştir.
- 3 faz sarğısından gelen 12 uç terminallere taşınarak farklı bağlantı şekilleri mümkün kılınmaktadır.
- 2/3 sarım adımı (pitch) doğrusal olmayan yüklerin sorunsuz beslenmesi açısından şu anda mevcut en optimum dizayn olarak üçüncü derece gerilim harmoniklerine (3., 9.,15...) mani olur.
- Bastırma derecesi
- Radyo parazitleri
- Yüksek verim ve yol verme kabiliyeti

İkaz ve Gerilim Düzenleme (Regülasyon) Sistemleri

MODEL	16 series	18 series	22 series	27 series	4 series	5 series	6 series	7 series
AVR								
SX460	Standart	Standart	Standart	Standart				
AS440(parallel optional)	Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel				
SX440(parallel optional)			Opsiyonel	Opsiyonel	Standart	Standart		
MX341(with PMG)			Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel		
MX321(with PMG)							Standart	Standart

Kendinden ikazlı sistem sayesinde ana stator Otomatik Gerilim Düzenleyici (AVR- Automatic Voltage Regulator) üzerinden ikaz statorunu besler. Yüksek verimli AVR gerilimin ikaz rotor çıkışı tam dalga köprü doğrultucu üzerinden ana rotoru besler.

- Çelik yapı
- Döküm alüminyumdan ön ve arka kapaklar
- Çalışma esnasındaki titreşimi önemli ölçüde azaltan rijit imalat.
- Tüm rotorlar BS6861'e uygun olarak dinamik balanslıdır.
- Bakımsız, ömür boyu sızdırmaz rulman yatak
- %120 aşırı hız dayanım
- Standart Özellikler
- Opsiyonlar
 - Giriş-çıkış filtreleri, %5 güç düşümüyle
 - Giriş-çıkış filtreleri, %10 güç düşümüyle (IP44)
 - Yoğunlaşma önleyici ısıtıcı
 - Stator sarğıları ve yataklar için aşırı ısınma koruması
 - Merkez yüksekliği ihtiyaca göre ayarlanabilir.

Uygulama

Primer/yedek güç sistemleri, kiralama, telekom, mobil elektrik santralleri, aydınlatma kuleleri, demir yolları, soğutucular.

Kalite Güvence

ARK Serisi alternatörler ISO9001 kalite güvence sistemi kapsamında uygulanan üretim prosedürlerine uygun olarak imal edilmektedirler.

Not: Sürekli ürün gelişimine bağlı olarak ürün özelliklerinde haber vermeden değişiklik yapılabilmekte olduğundan, burada verilen bilgiler bağlayıcı değildir.

Doğrultucu, kısa devre voltaj yükselmelerinden veya faz uyumsuzluğundan aşırı gerilim baskılayıcı tarafından korunur.

GENEL BİLGİLER

İZOLASYON SİSTEMİ	H	KONTROL SİSTEMİ	KENDİNDEN UYARMALI
ANMA GÜÇ FAKTÖRÜ	0.8	YÜKSEKLİK	1000m
KORUMA	IP23	AŞIRI HIZ	2250 Devir/Dakika
STATOR SARGISI	EŞZAMANLI ÇİFT KATMAN	DALGA FORM SAPMASI	
ADIM	2/3	YÜKSÜZ < %1.5 SAPMA OLMAYAN DENGELENMİŞ LINEAR YÜK	
SARGI UÇLARI	12	< %5.0	

TELEFON PARAZİTİ	THF<%250HZ		THF<%2 60HZ		
UYARTIM SİSTEMİ	SX460	SX440	AS440	MX341	MX321
VOLTAJ REGÜLASYON ORANI	%±1.5	±%1.0	±%1.0	±%1.0	±%0.5
DÜŞÜK VOLTAJ KORUMASI	Standart	Standart	Standart	Standart	Standart
KISA DEVRE ELEKTRİK KABİLİYETİ				%300:10S	%300:10S
PARALEL OPERASYON		Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel

POWER - 1500 PM

KVA/KW - Power Factor=0.8

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50HZ	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel Star (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	A.R.K184ES kVA	17.5	17.5	17.5	16.6	18.8	18.8	18.8	18.8	20.1	20.1	20.1	20.1	20.6	20.6	20.6	20.6
	kW	14.0	14.0	14.0	13.3	15.0	15.0	15.0	15.0	16.1	16.1	16.1	16.1	16.5	16.5	16.5	16.5
	Efficiency (%)	83.2	83.6	83.8	84.4	83.7	84.2	84.5	84.9	83.2	83.6	83.8	84.4	83.7	84.2	84.5	84.9
	A.R.K184E kVA	20.0	20.0	20.0	15.6	22.5	22.5	22.5	17.5	24.1	24.1	24.1	18.7	24.8	24.8	24.8	19.3
	kW	16.0	16.0	16.0	12.5	18.0	18.0	18.0	14.0	19.3	19.3	19.3	15.0	19.8	19.8	19.8	15.4
	Efficiency (%)	84.8	85.2	85.4	85.7	83.7	84.2	84.5	84.9	84.8	85.2	85.4	85.7	83.7	84.2	84.5	84.9
	A.R.K184EF kVA	22.9	22.9	22.9	16.8	25.0	25.0	25.0	20.5	26.8	26.8	26.8	21.9	27.5	27.5	27.5	22.6
	kW	18.3	18.3	18.3	13.4	20.0	20.0	20.0	16.4	21.4	21.4	21.4	17.5	22.0	22.0	22.0	18.0
	Efficiency (%)	86.7	87.0	87.2	87.3	86.1	86.5	86.7	86.9	86.7	87.0	87.2	87.3	86.1	86.5	86.7	86.9
	A.R.K184F kVA	25.0	25.0	25.0	20.5	27.5	27.5	27.5	22.5	29.4	29.4	29.4	24.1	30.3	30.3	30.3	24.8
	kW	20.0	20.0	20.0	16.4	22.0	22.0	22.0	18.0	23.5	23.5	23.5	19.3	17.6	17.6	17.6	14.4
	Efficiency (%)	86.1	86.5	86.7	86.9	85.3	85.8	86.0	86.4	86.1	86.5	86.7	86.9	85.3	85.8	86.0	86.4
	A.R.K184G kVA	29.0	29.0	29.0	25.5	31.3	31.3	31.3	27.5	33.5	33.5	33.5	29.4	34.4	34.4	34.4	30.3
	kW	23.2	23.2	23.2	20.4	25.0	25.0	25.0	22.0	26.8	26.8	26.8	23.5	20.0	20.0	20.0	17.6
	Efficiency (%)	86.4	86.7	87.0	87.2	85.7	86.2	86.4	86.7	86.9	87.2	87.4	87.7	86.2	86.6	86.9	87.2
	A.R.K184H kVA	34.4	34.4	34.4	29.8	37.5	37.5	37.5	32.5	40.1	40.1	40.1	34.8	41.3	41.3	41.3	35.8
	kW	27.5	27.5	27.5	23.8	30.0	30.0	30.0	26.0	32.1	32.1	32.1	27.8	33.0	33.0	33.0	28.6
	Efficiency (%)	86.9	87.2	87.4	87.7	86.2	86.6	86.9	87.2	87.3	87.3	87.8	88.1	86.7	86.6	87.3	87.6
	A.R.K184J kVA	36.7	39.0	36.7	32.1	40.0	42.5	40.0	35.0	42.8	45.5	42.8	37.5	44.0	46.8	44.0	38.5
	kW	29.4	31.2	29.4	25.7	32.0	34.0	32.0	28.0	34.2	36.4	34.2	30.0	25.6	27.2	25.6	22.4
	Efficiency (%)	87.3	87.3	87.8	88.1	86.7	86.6	87.3	87.6	86.9	87.2	87.4	87.7	86.2	86.6	86.9	87.2
Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
60HZ	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel Star (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Series Delta (V)	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	A.R.K184ES kVA	19.3	20.6	21.2	21.9	22.5	22.5	22.5	22.5	24.1	24.1	24.1	24.1	26.5	26.5	26.5	26.5
	kW	15.4	16.5	17.0	17.5	18.0	18.0	18.0	18.0	19.3	19.3	19.3	19.3	21.2	21.2	21.2	21.2
	Efficiency (%)	83.9	83.9	84.1	84.1	83.4	83.6	84.1	84.2	83.9	83.9	84.1	84.1	83.4	83.6	84.1	84.2
	A.R.K184E kVA	25.0	26.3	26.3	28.1	27.5	28.8	28.8	30.0	29.4	30.8	30.8	32.1	32.4	33.9	33.9	35.3
	kW	20.0	21.0	21.0	22.5	22.0	23.0	23.0	24.0	23.5	24.7	24.7	25.7	25.9	27.1	27.1	28.2
	Efficiency (%)	84.4	84.5	85.0	84.8	83.4	83.6	84.1	84.2	84.4	84.5	85.0	84.8	83.4	83.6	84.1	84.2
	A.R.K184EF kVA	24.7	27.5	27.5	27.5	27.0	30.0	30.0	30.0	28.9	32.1	32.1	32.1	31.8	35.3	35.3	35.3
	kW	19.8	22.0	22.0	22.0	21.6	24.0	24.0	24.0	23.1	25.7	25.7	25.7	25.4	28.2	28.2	28.2
	Efficiency (%)	87.2	87.1	87.3	87.5	86.8	86.6	86.9	87.1	87.2	87.1	87.3	87.5	86.8	86.6	86.9	87.1
	A.R.K184F kVA	30.0	31.3	31.3	32.5	32.5	34.4	34.4	35.0	34.8	36.8	36.8	37.5	38.3	40.5	40.5	41.2
	kW	24.0	25.0	25.0	26.0	26.0	27.5	27.5	28.0	27.8	29.4	29.4	30.0	30.6	32.4	32.4	33.0
	Efficiency (%)	86.1	86.3	86.6	86.7	85.4	85.5	85.9	86.1	86.1	86.3	86.6	86.7	85.4	85.5	85.9	86.1
	A.R.K184G kVA	31.3	34.4	34.4	34.4	35.0	37.5	37.5	37.5	37.5	40.1	40.1	40.1	41.2	44.1	44.1	44.1
	kW	25.0	27.5	27.5	27.5	28.0	30.0	30.0	30.0	30.0	32.1	32.1	32.1	33.0	35.3	35.3	35.3
	Efficiency (%)	87.1	87.0	###	87.5	86.3	86.3	86.7	87.0	87.1	87.0	###	87.5	86.3	86.3	86.7	87.0
	A.R.K184H kVA	40.7	43.0	43.0	43.0	44.3	46.9	46.9	46.9	47.4	50.2	50.2	50.2	52.1	55.2	55.2	55.2
	kW	32.6	34.4	34.4	34.4	35.4	37.5	37.5	37.5	37.9	40.1	40.1	40.1	41.7	44.2	44.2	44.2
	Efficiency (%)	86.8	86.9	87.3	87.5	86.2	86.3	86.7	87.0	86.8	86.9	87.3	87.5	86.2	86.3	86.7	87.0
	A.R.K184J kVA	47.3	50.0	50.0	50.0	47.3	50.0	50.0	50.0	50.6	53.5	53.5	53.5	55.7	58.9	58.9	58.9
	kW	37.8	40.0	40.0	40.0	37.8	40.0	40.0	40.0	40.5	42.8	42.8	42.8	44.5	47.1	47.1	47.1
	Efficiency (%)	86.7	86.8	87.2	87.5	86.7	86.8	87.2	87.5	86.7	86.8	87.2	87.5	86.7	86.8	87.2	87.5



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WINDING 311 P.F.=0.8 A.R.K184ES	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	1.873	1.690	1.570	1.796	2.294	2.148	1.965	1.880
X'd DIR. AXIS TRANSIENT	0.188	0.170	0.158	0.180	0.232	0.217	0.199	0.190
X''d DIR. AXIS SUBTRANSIENT	0.122	0.110	0.102	0.117	0.146	0.137	0.125	0.120
Xq QUAD. AXIS REACTANCE	0.931	0.840	0.780	0.892	1.135	1.063	0.972	0.930
X''q QUAD. AXIS SUBTRANSIENT	0.211	0.190	0.177	0.202	0.256	0.240	0.220	0.210
X L LEAKAGE REACTANCE	0.075	0.068	0.063	0.072	0.093	0.087	0.079	0.076
X 2 NEGATIVE SEQUENCE	0.177	0.160	0.149	0.170	0.207	0.194	0.178	0.170
X 0 ZERO SEQUENCE	0.081	0.073	0.068	0.077	0.099	0.093	0.085	0.081
T'd TRANSIENT TIME CONST.	0.02s	0.02s	0.02s	0.02s	0.02s	0.02s	0.02s	0.02s
T''d SUB-TRANSTIME CONST.	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s
T'do O.C. FIELD TIME CONST.	0.4s	0.4s	0.4s	0.4s	0.4s	0.4s	0.4s	0.4s
Ta ARMATURE TIME CONST.	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s

WINDING 311 P.F.=0.8 A.R.K184E	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	1.873	1.690	1.570	1.796	2.294	2.148	1.965	1.880
X'd DIR. AXIS TRANSIENT	0.188	0.170	0.158	0.180	0.232	0.217	0.199	0.190
X''d DIR. AXIS SUBTRANSIENT	0.122	0.110	0.102	0.117	0.146	0.137	0.125	0.120
Xq QUAD. AXIS REACTANCE	0.931	0.840	0.780	0.892	1.135	1.063	0.972	0.930
X''q QUAD. AXIS SUBTRANSIENT	0.211	0.190	0.177	0.202	0.256	0.240	0.220	0.210
X L LEAKAGE REACTANCE	0.075	0.068	0.063	0.072	0.093	0.087	0.079	0.076
X 2 NEGATIVE SEQUENCE	0.177	0.160	0.149	0.170	0.207	0.194	0.178	0.170
X 0 ZERO SEQUENCE	0.081	0.073	0.068	0.077	0.099	0.093	0.085	0.081
T'd TRANSIENT TIME CONST.	0.02s	0.02s	0.02s	0.02s	0.02s	0.02s	0.02s	0.02s
T''d SUB-TRANSTIME CONST.	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s
T'do O.C. FIELD TIME CONST.	0.4s	0.4s	0.4s	0.4s	0.4s	0.4s	0.4s	0.4s
Ta ARMATURE TIME CONST.	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s

WINDING 311 P.F.=0.8 A.R.K184EF	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	1.662	1.500	1.394	1.512	1.797	1.784	1.633	1.500
X'd DIR. AXIS TRANSIENT	0.172	0.155	0.144	0.156	0.175	0.173	0.158	0.145
X''d DIR. AXIS SUBTRANSIENT	0.111	0.1	0.093	0.100	0.123	0.122	0.111	0.103
Xq QUAD. AXIS REACTANCE	0.836	0.755	0.701	0.760	0.903	0.898	0.822	0.755
X''q QUAD. AXIS SUBTRANSIENT	0.192	0.174	0.161	0.174	0.205	0.203	0.187	0.171
X L LEAKAGE REACTANCE	0.066	0.060	0.055	0.061	0.073	0.072	0.065	0.061
X 2 NEGATIVE SEQUENCE	0.151	0.136	0.126	0.138	0.164	0.164	0.149	0.137
X 0 ZERO SEQUENCE	0.073	0.066	0.061	0.066	0.078	0.077	0.071	0.065
T'd TRANSIENT TIME CONST.	0.022s	0.022s	0.022s	0.022s	0.022s	0.022s	0.022s	0.022s
T''d SUB-TRANSTIME CONST.	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s	0.0035s
T'do O.C. FIELD TIME CONST.	0.45s	0.45s	0.45s	0.45s	0.45s	0.45s	0.45s	0.45s
Ta ARMATURE TIME CONST.	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s

WINDING 311 P.F.=0.8 A.R.K184F	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	1.828	1.650	1.533	1.667	2.163	2.047	1.872	1.750
X'd DIR. AXIS TRANSIENT	0.188	0.170	0.158	0.172	0.210	0.199	0.182	0.170
X''d DIR. AXIS SUBTRANSIENT	0.122	0.110	0.102	0.111	0.148	0.140	0.128	0.120
Xq QUAD. AXIS REACTANCE	0.920	0.830	0.771	0.838	1.088	1.029	0.942	0.880
X''q QUAD. AXIS SUBTRANSIENT	0.211	0.191	0.177	0.192	0.247	0.234	0.214	0.200
X L LEAKAGE REACTANCE	0.073	0.066	0.061	0.066	0.087	0.082	0.075	0.070
X 2 NEGATIVE SEQUENCE	0.166	0.150	0.139	0.152	0.198	0.187	0.171	0.160
X 0 ZERO SEQUENCE	0.080	0.072	0.067	0.073	0.094	0.089	0.081	0.076
T'd TRANSIENT TIME CONST.	0.022s	0.022s	0.022s	0.022s	0.022s	0.022s	0.022s	0.022s
T''d SUB-TRANSTIME CONST.	0.0055s	0.0055s	0.0055s	0.0055s	0.0055s	0.0055s	0.0055s	0.0055s
T'do O.C. FIELD TIME CONST.	0.45s	0.45s	0.45s	0.45s	0.45s	0.45s	0.45s	0.45s
Ta ARMATURE TIME CONST.	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s

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WINDING 311 P.F.=0.8 A.R.K184G	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	1.729	1.560	1.449	1.467	1.938	1.857	1.699	1.560
X'd DIR. AXIS TRANSIENT	0.166	0.150	0.139	0.141	0.199	0.190	0.174	0.160
X''d DIR. AXIS SUBTRANSIENT	0.122	0.110	0.102	0.104	0.124	0.119	0.109	0.100
Xq QUAD. AXIS REACTANCE	0.864	0.780	0.725	0.734	0.957	0.916	0.838	0.770
X''q QUAD. AXIS SUBTRANSIENT	0.188	0.170	0.158	0.159	0.211	0.202	0.185	0.170
X L LEAKAGE REACTANCE	0.070	0.063	0.059	0.059	0.078	0.075	0.069	0.063
X 2 NEGATIVE SEQUENCE	0.155	0.140	0.130	0.132	0.186	0.179	0.163	0.150
X 0 ZERO SEQUENCE	0.074	0.067	0.062	0.063	0.083	0.080	0.073	0.067
T'd TRANSIENT TIME CONST.	0.024s	0.024s	0.024s	0.024s	0.024s	0.024s	0.024s	0.024s
T''d SUB-TRANSTIME CONST.	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s
T'do O.C. FIELD TIME CONST.	0.55s	0.55s	0.55s	0.55s	0.55s	0.55s	0.55s	0.55s
Ta ARMATURE TIME CONST.	0.007s	0.007s	0.007s	0.007s	0.007s	0.007s	0.007s	0.007s

WINDING 311 P.F.=0.8 A.R.K184H	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.216	2.000	1.858	1.907	2.515	2.380	2.178	2.000
X'd DIR. AXIS TRANSIENT	0.168	0.152	0.141	0.145	0.191	0.181	0.166	0.152
X''d DIR. AXIS SUBTRANSIENT	0.092	0.083	0.077	0.080	0.104	0.099	0.090	0.083
Xq QUAD. AXIS REACTANCE	1.071	0.967	0.898	0.922	1.216	1.151	1.053	0.967
X''q QUAD. AXIS SUBTRANSIENT	0.187	0.169	0.157	0.162	0.213	0.201	0.184	0.169
X L LEAKAGE REACTANCE	0.069	0.062	0.058	0.059	0.078	0.074	0.068	0.062
X 2 NEGATIVE SEQUENCE	0.141	0.127	0.118	0.121	0.160	0.151	0.138	0.127
X 0 ZERO SEQUENCE	0.033	0.030	0.028	0.029	0.038	0.036	0.033	0.030
T'd TRANSIENT TIME CONST.	0.024s	0.024s	0.024s	0.024s	0.024s	0.024s	0.024s	0.024s
T''d SUB-TRANSTIME CONST.	0.015s	0.015s	0.015s	0.015s	0.015s	0.015s	0.015s	0.015s
T'do O.C. FIELD TIME CONST.	0.57s	0.57s	0.57s	0.57s	0.57s	0.57s	0.57s	0.57s
Ta ARMATURE TIME CONST.	0.01s	0.01s	0.01s	0.01s	0.01s	0.01s	0.01s	0.01s

WINDING 311 P.F.=0.8 A.R.K184J	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.139	2.051	1.793	1.823	2.431	2.297	2.101	1.930
X'd DIR. AXIS TRANSIENT	0.163	0.156	0.136	0.138	0.185	0.175	0.160	0.147
X''d DIR. AXIS SUBTRANSIENT	0.089	0.085	0.074	0.075	0.101	0.095	0.087	0.080
Xq QUAD. AXIS REACTANCE	1.032	0.990	0.866	0.880	1.174	1.109	1.015	0.932
X''q QUAD. AXIS SUBTRANSIENT	0.180	0.173	0.151	0.154	0.205	0.194	0.177	0.163
X L LEAKAGE REACTANCE	0.067	0.064	0.056	0.057	0.076	0.071	0.065	0.060
X 2 NEGATIVE SEQUENCE	0.136	0.130	0.114	0.115	0.154	0.145	0.133	0.122
X 0 ZERO SEQUENCE	0.033	0.032	0.028	0.029	0.038	0.036	0.033	0.030
T'd TRANSIENT TIME CONST.	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s
T''d SUB-TRANSTIME CONST.	0.016s	0.016s	0.016s	0.016s	0.016s	0.016s	0.016s	0.016s
T'do O.C. FIELD TIME CONST.	0.59s	0.59s	0.59s	0.59s	0.59s	0.59s	0.59s	0.59s
Ta ARMATURE TIME CONST.	0.0105s	0.0105s	0.0105s	0.0105s	0.0105s	0.0105s	0.0105s	0.0105s



ARKEN | Nekra Alternatör**ARKEN | Nekra Alternatör****ARKEN | Nekra Alternatör****ARKEN | Nekra Alternatör****ARKEN | Nekra Alternatör**

DATA SHEET - A.R.K 224

TEKNİK ÖZELLİKLER VE OPSİYONLAR

Standartlar

- ARK serisi alternatörler uluslararası standart ve şartnamelerin birçoğuna uygunluk gösterir. Bunlar:
 - IEC60034, GB755, BS5000, VDE0530, NEMA, MG122,C22.2-100, CSA, AS1359 vb.
- ARK serisi alternatörler ISO9001 kalite sistemi sertifikalıdır.
- ARK serisi alternatörler CE işaretli jeneratör setlerinde kullanılabilir.
- Talep edilmesi durumunda diğer standartlara uygun imalat imkanı vardır.

Elektriksel Karakteristikler

- Yalıtım ve Emprenye
Tüm sarğı bileşenleri jeneratör uygulamalarında karşılaşılan sert ortamlara karşı koruma sağlamak üzere özel tasarlanmış malzeme ve proses ile emprenye edilmiştir.
- 3 faz sarğısından gelen 12 uç terminallere taşınarak farklı bağlantı şekilleri mümkün kılınmaktadır.
- 2/3 sarım adımı (pitch) doğrusal olmayan yüklerin sorunsuz beslenmesi açısından şu anda mevcut en optimum dizayn olarak üçüncü derece gerilim harmoniklerine (3., 9.,15...) mani olur.
- Bastırma derecesi
- Radyo parazitleri
- Yüksek verim ve yol verme kabiliyeti

İkaz ve Gerilim Düzenleme (Regülasyon) Sistemleri

MODEL	16 series	18 series	22 series	27 series	4 series	5 series	6 series	7 series
AVR								
SX460	Standart	Standart	Standart	Standart				
AS440(parallel optional)	Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel				
SX440(parallel optional)			Opsiyonel	Opsiyonel	Standart	Standart		
MX341(with PMG)			Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel		
MX321(with PMG)							Standart	Standart

Kendinden ikazlı sistem sayesinde ana stator Otomatik Gerilim Düzenleyici (AVR- Automatic Voltage Regulator) üzerinden ikaz statorunu besler. Yüksek verimli AVR gerilimin ikaz rotor çıkışı tam dalga köprü doğrultucu üzerinden ana rotoru besler.

- Çelik yapı
- Döküm alüminyumdan ön ve arka kapaklar
- Çalışma esnasındaki titreşimi önemli ölçüde azaltan rijit imalat.
- Tüm rotorlar BS6861'e uygun olarak dinamik balanslıdır.
- Bakımsız, ömür boyu sızdırmaz rulman yatak
- %120 aşırı hız dayanım
- Standart Özellikler
- Opsiyonlar
 - Giriş-çıkış filtreleri, %5 güç düşümüyle
 - Giriş-çıkış filtreleri, %10 güç düşümüyle (IP44)
 - Yoğunlaşma önleyici ısıtıcı
 - Stator sarğıları ve yataklar için aşırı ısınma koruması
 - Merkez yüksekliği ihtiyaca göre ayarlanabilir.

Uygulama

Primer/yedek güç sistemleri, kiralama, telekom, mobil elektrik santralleri, aydınlatma kuleleri, demir yolları, soğutucular.

Kalite Güvence

ARK Serisi alternatörler ISO9001 kalite güvence sistemi kapsamında uygulanan üretim prosedürlerine uygun olarak imal edilmektedirler.

Not: Sürekli ürün gelişimine bağlı olarak ürün özelliklerinde haber vermeden değişiklik yapılabilmekte olduğundan, burada verilen bilgiler bağlayıcı değildir.

GENEL BİLGİLER

İZOLASYON SİSTEMİ	H	KONTROL SİSTEMİ	KENDİNDEN UYARMALI
ANMA GÜÇ FAKTÖRÜ	0.8	YÜKSEKLİK	1000m
KORUMA	IP23	AŞIRI HIZ	2250 Devir/Dakika
STATOR SARGISI	EŞZAMANLI ÇİFT KATMAN	DALGA FORM SAPMASI	
ADIM	2/3	YÜKSÜZ < %1.5 SAPMA OLMAYAN DENGELENMİŞ LINEAR YÜK	
SARGI UÇLARI	12	< %5.0	

TELEFON PARAZİTİ	THF<%250HZ		THF<%2 60HZ		
UYARTIM SİSTEMİ	SX460	SX440	AS440	MX341	MX321
VOLTAJ REGÜLASYON ORANI	%±1.5	±%1.0	±%1.0	±%1.0	±%0.5
DÜŞÜK VOLTAJ KORUMASI	Standart	Standart	Standart	Standart	Standart
KISA DEVRE ELEKTRİK KABİLİYETİ				%300:10S	%300:10S
PARALEL OPERASYON		Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel

POWER - 15000 PM

KVA/KW - POWER FACTOR = 0.8

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50HZ	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel Star (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V) □	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	A.R.K224C kVA	37.5	37.5	37.5	27.0	42.5	42.5	42.5	30.0	45.0	45.0	45.0	31.7	46.8	46.8	46.8	33.0
		30.0	30.0	30.0	21.6	34.0	34.0	34.0	24.0	36.0	36.0	36.0	25.4	37.4	37.4	37.4	26.4
	Efficiency (%)	87.3	87.7	88.0	88.4	86.6	87.1	87.4	88.1	86.2	86.8	87.1	87.9	86.0	86.6	86.9	87.7
	A.R.K224DS kVA	41.3	41.3	41.3	36.3	45.0	45.0	45.0	41.3	47.5	47.5	47.5	43.8	48.8	48.8	48.8	36.3
		33.0	33.0	33.0	29.0	36.0	36.0	36.0	33.0	38.0	38.0	38.0	35.0	39.0	39.0	39.0	29.0
	Efficiency (%)	87.3	87.7	88.0	88.4	86.6	87.1	87.4	88.1	86.2	86.8	87.1	87.9	86.0	86.6	86.9	87.7
	A.R.K224D kVA	45.0	45.0	45.0	33.6	50.0	50.0	50.0	37.5	53.0	53.0	53.0	39.1	55.0	55.0	55.0	41.2
		36.0	36.0	36.0	26.9	40.0	40.0	40.0	30.0	42.4	42.4	42.4	31.3	44.0	44.0	44.0	33.0
	Efficiency (%)	88.3	88.6	88.9	89.3	87.7	88.2	88.5	89.0	87.4	87.9	88.2	88.8	87.2	87.7	88.0	88.6
	A.R.K224E kVA	53.0	53.0	53.0	43.3	60.0	60.0	60.0	45.0	61.0	61.0	61.0	45.8	63.0	63.0	63.0	47.3
		42.4	42.4	42.4	32.2	48.0	48.0	48.0	36.0	48.8	48.8	48.8	36.6	50.4	50.4	50.4	37.8
	Efficiency (%)	88.9	89.3	89.5	89.9	88.3	88.8	89.1	89.5	88.2	88.7	89.0	89.5	88.0	88.5	88.8	89.4
	A.R.K224F kVA	65.0	65.0	65.0	48.7	72.5	72.5	72.5	55.0	77.0	77.0	77.0	58.0	80.0	80.0	80.0	60.5
		52.0	52.0	52.0	39.0	58.0	58.0	58.0	44.0	61.6	61.6	61.6	46.6	64.0	64.0	64.0	48.4
	Efficiency (%)	90.0	90.3	90.4	90.7	89.6	89.9	90.1	90.4	89.4	89.7	89.9	90.3	89.2	89.6	89.8	90.2
	A.R.K224G kVA	75.0	75.0	75.0	67.4	85.0	85.0	85.0	75.0	87.5	87.5	87.5	76.9	90.8	90.8	90.8	90.1
		60.0	60.0	60.0	53.9	68.0	68.0	68.0	60.0	70.0	70.0	70.0	61.5	72.6	72.6	72.6	64.1
	Efficiency (%)	90.3	90.6	90.7	91.0	89.8	90.2	90.4	90.8	89.7	90.1	90.3	90.7	89.6	89.9	90.1	90.6

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
60HZ	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel Star (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Series Delta (V) □	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	A.R.K224C kVA	45.0	46.3	46.3	48.0	50.0	52.5	52.5	55.0	53.1	55.0	55.0	58.1	55.0	56.3	56.3	60.0
		36.0	37.0	37.0	38.4	40.0	42.0	42.0	44.0	42.5	44.0	44.0	46.5	44.0	45.0	45.0	48.0
	Efficiency (%)	87.7	88.1	88.4	88.6	87.1	87.5	87.9	88.1	86.7	87.2	87.7	87.8	86.5	87.1	87.5	87.6
	A.R.K224DS kVA	48.8	50.0	50.4	51.5	53.8	56.3	56.3	58.8	56.3	58.9	58.9	61.3	61.3	61.3	63.8	63.8
		39.0	40.0	40.3	41.2	43.0	45.0	45.0	47.0	45.0	47.1	47.1	49.0	49.0	49.0	51.0	51.0
	Efficiency (%)	87.7	88.1	88.4	88.6	87.1	87.5	87.9	88.1	86.7	87.2	87.7	87.8	86.5	87.1	87.5	87.6
	A.R.K224D kVA	52.5	55.0	56.0	58.0	60.0	62.5	62.5	65.0	62.5	65.0	65.0	68.8	65.0	66.3	66.3	71.3
		42.0	44.0	44.8	46.4	48.0	50.0	50.0	52.0	50.0	52.0	52.0	55.0	52.0	53.0	53.0	57.0
	Efficiency (%)	88.7	89.0	9.2	89.4	88.0	88.4	88.8	89.0	87.8	88.2	88.6	88.7	87.5	88.1	88.5	88.5
	A.R.K224E kVA	62.5	65.0	65.0	68.0	70.0	72.5	72.5	75.0	70.0	73.8	73.8	78.8	75.0	75.0	75.0	80.0
		50.0	52.0	52.0	54.4	56.0	58.0	58.0	60.0	56.0	59.0	59.0	63.0	60.0	60.0	60.0	64.0
	Efficiency (%)	89.2	89.5	89.9	90.0	88.8	89.2	89.4	89.6	88.6	88.9	89.3	89.4	88.4	88.8	89.3	89.3
	A.R.K224F kVA	75.0	78.1	78.1	82.5	83.8	87.5	87.5	93.8	88.8	92.5	92.5	98.8	91.9	95.0	95.0	102.5
		60.0	62.5	62.5	66.0	67.0	70.0	70.0	75.0	71.0	74.0	74.0	79.0	73.5	76.0	76.0	82.0
	Efficiency (%)	90.5	90.7	90.9	91.0	90.0	90.3	90.6	90.6	89.8	90.1	90.4	90.4	89.6	89.9	90.3	90.3
	A.R.K224G kVA	87.5	90.0	93.8	95.0	93.8	97.5	97.5	106.3	98.7	106.3	106.3	113.8	106.3	106.3	106.3	113.8
		70.0	72.0	75.0	76.0	75.0	78.0	80.0	83.0	78.5	82.0	82.0	88.0	81.0	85.0	85.0	91.0
	Efficiency (%)	90.8	91.0	91.1	91.3	90.5	90.8	90.9	91.0	90.3	90.6	90.9	90.9	90.2	90.4	90.7	90.8



Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K224C	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel S tar (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.42	2.19	2.03	2.27	3.03	2.84	2.60	2.50
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.17	0.22	0.21	0.19	0.18
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.10	0.11	0.15	0.14	0.13	0.12
Xq QUAD. AXIS REACTANCE	1.12	1.01	0.94	1.05	0.14	0.13	0.12	0.12
X''q QUAD. AXIS SUBTRANSIENT	1.12	1.01	0.94	1.05	1.4	1.31	1.20	1.16
X L LEAKAGE REACTANCE	0.16	0.14	0.13	0.15	0.14	0.13	0.12	0.12
X 2 NEGATIVE SEQUENCE	0.08	0.08	0.07	0.08	0.10	0.09	0.09	0.08
X 0 ZERO SEQUENCE	0.14	0.13	0.12	0.13	0.14	0.13	0.12	0.12
T'd TRANSIENT TIME CONST.	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s
T''d SUB-TRANSTIME CONST.	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s
T'do O.C. FIELD TIME CONST.	0.65s	0.65s	0.65s	0.65s	0.65s	0.65s	0.65s	0.65s
Ta ARMATURE TIME CONST.	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s

WINDING 311 P.F.=0.8 A.R.K224DS	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel S tar (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.42	2.19	2.03	2.27	3.03	2.84	2.60	2.50
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.17	0.22	0.21	0.19	0.18
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.10	0.11	0.15	0.14	0.13	0.12
Xq QUAD. AXIS REACTANCE	1.12	1.01	0.94	1.05	0.14	0.13	0.12	0.12
X''q QUAD. AXIS SUBTRANSIENT	1.12	1.01	0.94	1.05	1.4	1.31	1.20	1.16
X L LEAKAGE REACTANCE	0.16	0.14	0.13	0.15	0.14	0.13	0.12	0.12
X 2 NEGATIVE SEQUENCE	0.08	0.08	0.07	0.08	0.10	0.09	0.09	0.08
X 0 ZERO SEQUENCE	0.14	0.13	0.12	0.13	0.14	0.13	0.12	0.12
T'd TRANSIENT TIME CONST.	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s
T''d SUB-TRANSTIME CONST.	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s
T'do O.C. FIELD TIME CONST.	0.65s	0.65s	0.65s	0.65s	0.65s	0.65s	0.65s	0.65s
Ta ARMATURE TIME CONST.	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s	0.005s

WINDING 311 P.F.=0.8 A.R.K224D	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel S tar (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.33	2.10	1.95	2.14	3.04	2.83	2.59	2.47
X'd DIR. AXIS TRANSIENT	0.18	0.16	0.15	0.17	0.22	0.20	0.19	0.18
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.10	0.12	0.15	0.14	0.13	0.12
Xq QUAD. AXIS REACTANCE	1.07	0.97	0.90	0.99	1.40	1.30	1.19	1.14
X''q QUAD. AXIS SUBTRANSIENT	0.14	0.13	0.12	0.13	0.14	0.13	0.12	0.11
X L LEAKAGE REACTANCE	0.07	0.06	0.06	0.06	0.09	0.08	0.08	0.07
X 2 NEGATIVE SEQUENCE	0.13	0.12	0.11	0.12	0.14	0.13	0.12	0.11
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.08	0.09	0.08	0.08	0.07
T'd TRANSIENT TIME CONST.	0.027s	0.027s	0.027s	0.027s	0.027s	0.027s	0.027s	0.027s
T''d SUB-TRANSTIME CONST.	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s
T'do O.C. FIELD TIME CONST.	0.7s	0.7s	0.7s	0.7s	0.7s	0.7s	0.7s	0.7s
Ta ARMATURE TIME CONST.	0.0055s	0.0055s	0.0055s	0.0055s	0.0055s	0.0055s	0.0055s	0.0055s

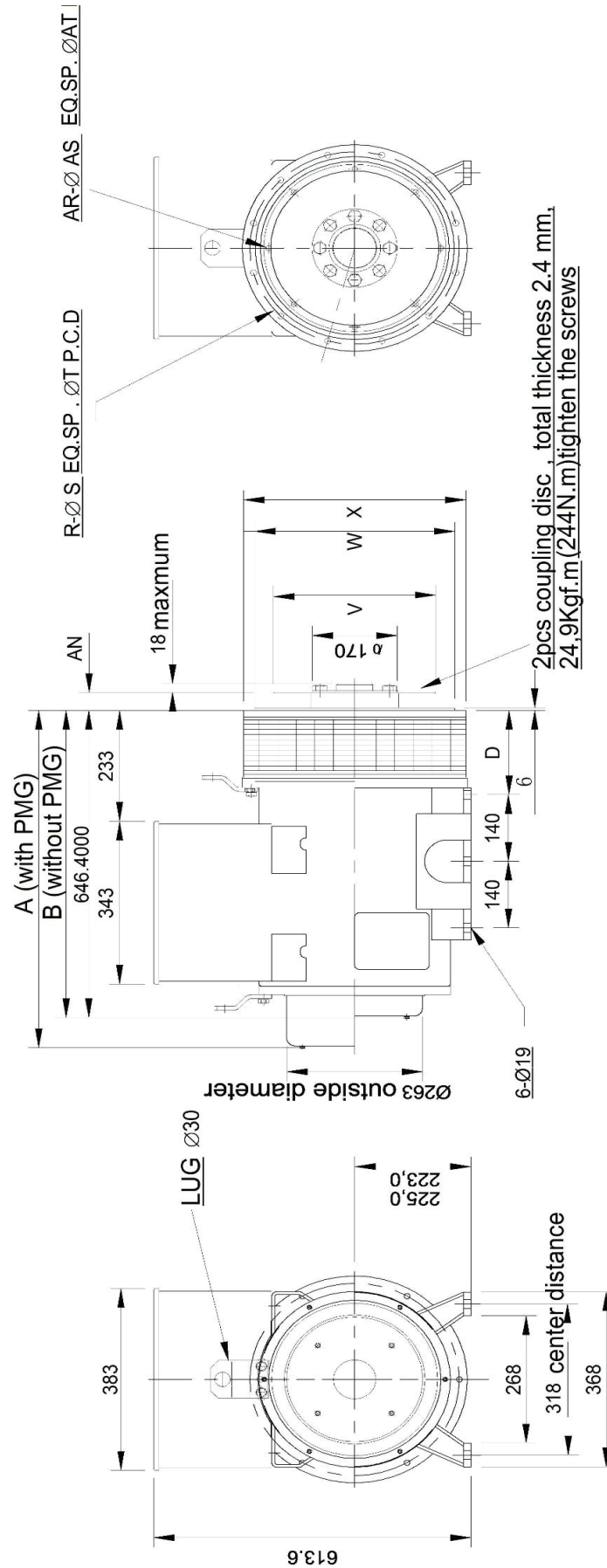
WINDING 311 P.F.=0.8 A.R.K224E	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel S tar (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.48	2.24	2.08	2.31	3.00	2.78	2.64	2.50
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.18	0.22	0.20	0.19	0.18
X''d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.11	0.12	0.15	0.14	0.13	0.13
Xq QUAD. AXIS REACTANCE	1.13	1.02	0.95	1.06	1.38	1.28	1.21	1.15
X''q QUAD. AXIS SUBTRANSIENT	0.14	0.13	0.12	0.13	0.14	0.13	0.12	0.12
X L LEAKAGE REACTANCE	0.08	0.08	0.07	0.08	0.09	0.08	0.08	0.08
X 2 NEGATIVE SEQUENCE	0.13	0.12	0.11	0.12	0.14	0.13	0.12	0.12
X 0 ZERO SEQUENCE	0.11	0.10	0.09	0.10	0.09	0.08	0.08	0.08
T'd TRANSIENT TIME CONST.	0.028s	0.028s	0.028s	0.028s	0.028s	0.028s	0.028s	0.028s
T''d SUB-TRANSTIME CONST.	0.007s	0.007s	0.007s	0.007s	0.007s	0.007s	0.007s	0.007s
T'do O.C. FIELD TIME CONST.	0.7s	0.7s	0.7s	0.7s	0.7s	0.7s	0.7s	0.7s
Ta ARMATURE TIME CONST.	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s	0.006s

Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K224F	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.29	2.07	1.92	2.10	2.52	2.35	2.15	2.12
X'd DIR. AXIS TRANSIENT	0.18	0.16	0.15	0.17	0.21	0.20	0.18	0.18
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.10	0.11	0.14	0.13	0.12	0.12
Xq QUAD. AXIS REACTANCE	1.05	0.95	0.88	0.97	1.16	1.08	0.99	0.98
X''q QUAD. AXIS SUBTRANSIENT	0.16	0.14	0.13	0.14	0.13	0.012	0.11	0.11
X L LEAKAGE REACTANCE	0.07	0.06	0.06	0.06	0.08	0.07	0.07	0.07
X 2 NEGATIVE SEQUENCE	0.14	0.013	0.12	0.13	0.13	0.12	0.11	0.11
X 0 ZERO SEQUENCE	0.11	0.10	0.09	0.10	0.10	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s
T''d SUB-TRANSTIME CONST.	0.008s	0.008s	0.008s	0.008s	0.008s	0.008s	0.008s	0.008s
T'do O.C. FIELD TIME CONST.	0.75s	0.75s	0.75s	0.75s	0.75s	0.75s	0.75s	0.75s
Ta ARMATURE TIME CONST.	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s	0.0065s

Power Factor=0.8

WINDING 311 P.F.=0.8 A.R.K224G	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.43	2.20	2.04	1.78	2.66	2.47	2.32	2.21
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.14	0.20	0.19	0.17	0.17
X''d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.11	0.09	0.14	0.13	0.12	0.12
Xq QUAD. AXIS REACTANCE	1.12	1.01	0.94	0.82	1.22	1.13	1.06	1.01
X''q QUAD. AXIS SUBTRANSIENT	0.17	0.15	0.14	0.13	0.15	0.14	0.13	0.12
X L LEAKAGE REACTANCE	0.07	0.06	0.06	0.05	0.08	0.07	0.07	0.07
X 2 NEGATIVE SEQUENCE	0.16	0.14	0.13	0.12	0.15	0.14	0.13	0.12
X 0 ZERO SEQUENCE	0.11	0.10	0.09	0.07	0.11	0.10	0.10	0.09
T'd TRANSIENT TIME CONST.	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s
T''d SUB-TRANSTIME CONST.	0.008s	0.008s	0.008s	0.008s	0.008s	0.008s	0.008s	0.008s
T'do O.C. FIELD TIME CONST.	0.75s	0.75s	0.75s	0.75s	0.75s	0.75s	0.75s	0.75s
Ta ARMATURE TIME CONST.	0.007s	0.007s	0.007s	0.007s	0.007s	0.007s	0.007s	0.007s

[illegible]

DATA SHEET - A.R.K 274

TEKNİK ÖZELLİKLER VE OPSİYONLAR

Standartlar

- ARK serisi alternatörler uluslararası standart ve şartnamelerin birçoğuna uygunluk gösterir. Bunlar:
 - IEC60034, GB755, BS5000, VDE0530, NEMA, MG122,C22.2-100, CSA, AS1359 vb.
- ARK serisi alternatörler ISO9001 kalite sistemi sertifikalıdır.
- ARK serisi alternatörler CE işaretli jeneratör setlerinde kullanılabilir.
- Talep edilmesi durumunda diğer standartlara uygun imalat imkanı vardır.

Elektriksel Karakteristikler

- Yalıtım ve Emprenye
Tüm sargı bileşenleri jeneratör uygulamalarında karşılaşılan sert ortamlara karşı koruma sağlamak üzere özel tasarlanmış malzeme ve proses ile emprenye edilmiştir.
- 3 faz sargısından gelen 12 uç terminallere taşınarak farklı bağlantı şekilleri mümkün kılınmaktadır.
- 2/3 sarım adımı (pitch) doğrusal olmayan yüklerin sorunsuz beslenmesi açısından şu anda mevcut en optimum dizayn olarak üçüncü derece gerilim harmoniklerine (3., 9.,15...) mani olur.
- Bastırma derecesi
- Radyo parazitleri
- Yüksek verim ve yol verme kabiliyeti

İkaz ve Gerilim Düzenleme (Regülasyon) Sistemleri

MODEL	16 series	18 series	22 series	27 series	4 series	5 series	6 series	7 series
AVR								
SX460	Standart	Standart	Standart	Standart				
AS440(parallel optional)	Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel				
SX440(parallel optional)			Opsiyonel	Opsiyonel	Standart	Standart		
MX341(with PMG)			Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel		
MX321(with PMG)							Standart	Standart

Kendinden ikazlı sistem sayesinde ana stator Otomatik Gerilim Düzenleyici (AVR- Automatic Voltage Regulator) üzerinden ikaz statorunu besler. Yüksek verimli AVR gerilimin ikaz rotor çıkışı tam dalga köprü doğrultucu üzerinden ana rotoru besler.

- Çelik yapı
- Döküm alüminyumdan ön ve arka kapaklar
- Çalışma esnasındaki titreşimi önemli ölçüde azaltan rijit imalat.
- Tüm rotorlar BS6861'e uygun olarak dinamik balanslıdır.
- Bakımsız, ömür boyu sızdırmaz rulman yatak
- %120 aşırı hız dayanım
- Standart Özellikler
- Opsiyonlar
 - Giriş-çıkış filtreleri, %5 güç düşümüyle
 - Giriş-çıkış filtreleri, %10 güç düşümüyle (IP44)
 - Yoğunlaşma önleyici ısıtıcı
 - Stator sargıları ve yataklar için aşırı ısınma koruması
 - Merkez yüksekliği ihtiyaca göre ayarlanabilir.

Uygulama

Primer/yedek güç sistemleri, kiralama, telekom, mobil elektrik santralleri, aydınlatma kuleleri, demir yolları, soğutucular.

Kalite Güvence

ARK Serisi alternatörler ISO9001 kalite güvence sistemi kapsamında uygulanan üretim prosedürlerine uygun olarak imal edilmektedirler.

Not: Sürekli ürün gelişimine bağlı olarak ürün özelliklerinde haber vermeden değişiklik yapılabilenmektedir, burada verilen bilgiler bağlayıcı değildir.

GENEL BİLGİLER

İZOLASYON SİSTEMİ	H	KONTROL SİSTEMİ	KENDİNDEN UYARMALI
ANMA GÜÇ FAKTÖRÜ	0.8	YÜKSEKLİK	1000m
KORUMA	IP23	AŞIRI HIZ	2250 Devir/Dakika
STATOR SARGISI	EŞZAMANLI ÇİFT KATMAN	DALGA FORM SAPMASI	
ADIM	2/3	YÜKSÜZ < %1.5 SAPMA OLMAYAN DENGELENMİŞ LINEAR YÜK	
SARGI UÇLARI	12	< %5.0	

TELEFON PARAZİTİ	THF<%250HZ		THF<%2 60HZ		
UYARTIM SİSTEMİ	SX460	SX440	AS440	MX341	MX321
VOLTAJ REGÜLASYON ORANI	%±1.5	±%1.0	±%1.0	±%1.0	±%0.5
DÜŞÜK VOLTAJ KORUMASI	Standart	Standart	Standart	Standart	Standart
KISA DEVRE ELEKTRİK KABİLİYETİ				%300:10S	%300:10S
PARALEL OPERASYON		Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel

POWER -1500 RPM

KVA/KW - Power Factor = 0.8

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50HZ	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel 5 tar (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)□	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	A.R.K274CS kVA	84.0	84.0	84.0	N/A	93.75	93.75	93.75	N/A	106.0	106.0	106.0	N/A	110.0	110.0	110.0	N/A
	kW	65.0	65.0	65.0	N/A	75.0	75.0	75.0	N/A	84.8	84.8	84.8	N/A	88.0	88.0	88.0	N/A
	Efficiency (%)	90.7	91.1	91.3	N/A	89.8	90.3	90.6	N/A	89.5	90.0	90.4	N/A	89.2	89.8	90.2	N/A
	A.R.K274C kVA	84.0	84.0	84.0	N/A	100.0	100.0	100.0	N/A	106.0	106.0	106.0	N/A	110.0	110.0	110.0	N/A
	kW	67.2	67.2	67.2	N/A	80.0	80.0	80.0	N/A	84.8	84.8	84.8	N/A	88.0	88.0	88.0	N/A
	Efficiency (%)	90.7	91.1	91.3	N/A	89.8	90.3	90.6	N/A	89.5	90.0	90.4	N/A	89.2	89.8	90.2	N/A
	A.R.K274D kVA	100.0	100.0	100.0	N/A	114.0	120.0	114.0	N/A	121.0	127.0	121.0	N/A	125.0	130.0	125.0	N/A
	kW	80.0	80.0	80.0	N/A	91.2	96.0	91.2	N/A	96.8	101.6	96.8	N/A	100.0	104.0	100.0	N/A
	Efficiency (%)	90.9	91.3	91.5	N/A	90.3	90.6	91.1	N/A	90.0	90.3	90.8	N/A	89.8	90.2	90.7	N/A
	A.R.K274DS kVA	100.0	100.0	100.0	N/A	125.0	125.0	125.0	N/A	121.0	127.0	121.0	N/A	125.0	130.0	125.0	N/A
	kW	80.0	80.0	80.0	N/A	100.0	100.0	100.0	N/A	96.8	101.6	96.8	N/A	100.0	104.0	100.0	N/A
	Efficiency (%)	90.9	91.3	91.5	N/A	90.3	90.6	91.1	N/A	90.0	90.3	90.8	N/A	89.8	90.2	90.7	N/A
	A.R.K274E kVA	125.0	125.0	125.0	N/A	140.0	140.0	140.0	N/A	145.0	145.0	145.0	N/A	150.0	150.0	150.0	N/A
	kW	100.0	100.0	100.0	N/A	112.0	112.0	112.0	N/A	116.0	116.0	116.0	N/A	120.0	120.0	120.0	N/A
	Efficiency (%)	91.7	92.1	92.3	N/A	91.3	91.7	92.0	N/A	91.1	91.6	91.8	N/A	91.0	91.4	91.7	N/A
	A.R.K274F kVA	145.0	145.0	145.0	N/A	160.0	160.0	160.0	N/A	170.0	170.0	170.0	N/A	175.0	175.0	175.0	N/A
	kW	116.0	116.0	116.0	N/A	128.0	128.0	128.0	N/A	136.0	136.0	136.0	N/A	140.0	140.0	140.0	N/A
	Efficiency (%)	92.3	92.6	92.8	N/A	92.0	92.3	92.5	N/A	91.7	92.1	92.3	N/A	91.6	92.0	92.2	N/A
	A.R.K274FS kVA	145.0	145.0	145.0	N/A	150.0	150.0	150.0	N/A	170.0	170.0	170.0	N/A	175.0	175.0	175.0	N/A
	kW	116.0	116.0	116.0	N/A	120.0	120.0	120.0	N/A	136.0	136.0	136.0	N/A	140.0	140.0	140.0	N/A
	Efficiency (%)	92.3	92.6	92.8	N/A	92.0	92.3	92.5	N/A	91.7	92.1	92.3	N/A	91.6	92.0	92.2	N/A
	A.R.K274G kVA	164.6	164.6	164.6	N/A	180.0	180.0	180.0	N/A	187.0	187.0	187.0	N/A	194.0	194.0	194.0	N/A
	kW	131.7	131.7	131.7	N/A	150.0	150.0	150.0	N/A	149.6	149.6	149.6	N/A	155.2	155.2	155.2	N/A
	Efficiency (%)	92.3	92.6	92.8	N/A	92.0	92.4	92.6	N/A	91.9	92.2	92.5	N/A	91.7	92.1	92.3	N/A
	A.R.K274H kVA	182.0	182.0	182.0	N/A	200.0	200.0	200.0	N/A	212.0	212.0	212.0	N/A	220.0	220.0	220.0	N/A
	kW	145.6	145.6	145.6	N/A	160.0	160.0	160.0	N/A	169.6	169.6	169.6	N/A	176.0	176.0	176.0	N/A
	Efficiency (%)	93.3	93.5	93.6	N/A	93.0	93.3	93.4	N/A	92.8	93.1	93.3	N/A	92.7	93.0	93.2	N/A
	A.R.K274J kVA	210.0	210.0	210.0	N/A	230.0	230.0	230.0	N/A	250.0	250.0	250.0	N/A	260.0	260.0	260.0	N/A
	kW	168.0	168.0	168.0	N/A	184.0	184.0	184.0	N/A	200.0	200.0	200.0	N/A	208.0	208.0	208.0	N/A
	Efficiency (%)	92.8	92.8	92.9	N/A	92.4	92.6	92.6	N/A	92.1	92.2	92.3	N/A	91.8	92.0	92.1	N/A
	A.R.K274K kVA	229.0	229.0	229.0	N/A	250.0	250.0	250.0	N/A	265.0	265.0	265.0	N/A	275.0	275.0	275.0	N/A
	kW	183.2	183.2	183.2	N/A	200.0	200.0	200.0	N/A	212.0	212.0	212.0	N/A	220.0	220.0	220.0	N/A
	Efficiency (%)	92.8	93.0	93.1	N/A	92.5	92.7	92.8	N/A	92.2	92.4	92.6	N/A	92.0	92.2	92.4	N/A

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C				
60HZ	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480	
	Parallel Star (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240	
	Series Delta (V)□	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277	
	A.R.K274C	kVA	97.5	106.3	106.3	112.5	112.5	117.5	117.5	125.0	116.3	125.0	125.0	132.5	120.0	127.5	127.5	137.5
		kW	78.0	85.0	85.0	90.0	90.0	94.0	94.0	100.0	93.0	100.0	100.0	106.0	96.0	102.0	102.0	110.0
		Efficiency (%)	90.9	91.0	91.4	91.5	90.2	90.6	91.0	91.1	90.0	90.2	90.7	90.8	89.8	90.1	90.6	90.6
	A.R.K274CS	kVA	97.5	106.3	106.3	112.5	110.0	110.0	110.0	110.0	116.3	125.0	125.0	132.5	120.0	127.5	127.5	137.5
		kW	78.0	85.0	85.0	90.0	90.0	94.0	94.0	100.0	93.0	100.0	100.0	106.0	96.0	102.0	102.0	110.0
		Efficiency (%)	90.9	91.0	91.4	91.5	90.2	90.6	91.0	91.1	90.0	90.2	90.7	90.8	89.8	90.1	90.6	90.6
	A.R.K274D	kVA	120.0	125.0	125.0	131.3	131.3	137.5	137.5	146.3	137.5	145.0	145.0	155.0	142.5	150.0	150.0	158.8
		kW	96.0	100.0	100.0	105.0	105.0	110.0	110.0	117.0	110.0	116.0	116.0	124.0	114.0	120.0	120.0	127.0
		Efficiency (%)	90.9	91.2	91.5	91.6	90.5	90.8	91.2	91.3	90.2	90.6	91.0	91.1	90.1	90.4	90.8	91.0
	A.R.K274DS	kVA	120.0	125.0	125.0	131.3	131.3	137.5	137.5	146.3	137.5	145.0	145.0	155.0	142.5	150.0	150.0	158.8
		kW	96.0	100.0	100.0	105.0	105.0	110.0	110.0	117.0	110.0	116.0	116.0	124.0	114.0	120.0	120.0	127.0
		Efficiency (%)	90.9	91.2	91.5	91.6	90.5	90.8	91.2	91.3	90.2	90.6	91.0	91.1	90.1	90.4	90.8	91.0
	A.R.K274E	kVA	140.0	143.8	143.8	160.0	160.0	167.5	167.5	178.8	170.0	175.0	175.0	187.5	175.0	181.3	181.3	193.8
		kW	112.0	115.0	115.0	128.0	128.0	134.0	134.0	143.0	136.0	140.0	140.0	150.0	140.0	145.0	145.0	155.0
		Efficiency (%)	91.9	92.2	92.5	92.5	91.4	91.7	92.1	92.1	91.2	91.5	91.9	92.0	91.0	91.4	91.8	91.9
	A.R.K274F	kVA	162.5	172.5	172.5	187.5	181.3	190.0	190.0	206.3	187.5	200.0	200.0	212.5	192.5	206.3	206.3	218.8
		kW	130.0	138.0	138.0	150.0	145.0	152.0	152.0	165.0	150.0	160.0	160.0	170.0	154.0	165.0	165.0	175.0
		Efficiency (%)	92.5	92.7	92.9	92.9	92.1	92.4	92.7	92.7	92.0	92.2	92.5	92.6	91.9	92.1	92.4	92.5
	A.R.K274FS	kVA	162.5	172.5	172.5	187.5	169.7	169.7	169.7	169.7	187.5	200.0	200.0	212.5	192.5	206.3	206.3	218.8
		kW	130.0	138.0	138.0	150.0	135.8	135.8	135.8	135.8	150.0	160.0	160.0	170.0	154.0	165.0	165.0	175.0
		Efficiency (%)	92.5	92.7	92.9	92.9	92.1	92.4	92.7	92.7	92.0	92.2	92.5	92.6	91.9	92.1	92.4	92.5
	A.R.K274G	kVA	192.8	199.0	199.0	212.2	205.0	218.5	218.5	231.4	213.0	228.8	228.8	246.8	218.5	234.0	234.0	253.3
		kW	154.2	159.2	159.2	169.8	164.0	174.8	174.8	185.1	170.4	183.0	183.0	197.4	174.8	187.2	187.2	202.6
		Efficiency (%)	92.4	92.7	92.9	93.0	92.2	92.4	92.7	92.7	92.0	92.2	92.5	92.6	91.9	92.1	92.4	92.5
	A.R.K274H	kVA	218.8	225.0	225.0	235.0	237.5	245.0	245.0	255.0	250.0	258.8	258.8	275.0	256.3	265.0	265.0	280.0
		kW	175.0	180.0	180.0	188.0	190.0	196.0	196.0	204.0	200.0	207.0	207.0	220.0	205.0	212.0	212.0	224.0
		Efficiency (%)	93.2	93.4	93.6	93.7	93.0	93.2	93.5	93.6	92.8	93.1	93.3	93.4	92.7	93.0	93.3	93.3
	A.R.K274J	kVA	250.0	264.0	275.0	275.0	269.0	281.0	294.0	300.0	288.0	300.0	313.0	319.0	294.0	306.0	319.0	325.0
		kW	200.0	211.2	220.0	220.0	215.2	224.8	235.2	240.0	230.4	240.0	250.4	255.2	235.2	244.8	255.2	260.0
		Efficiency (%)	93.0	93.0	93.0	93.0	92.8	92.8	92.7	92.8	92.5	92.5	92.5	92.5	92.4	92.4	92.4	92.4
	A.R.K274K	kVA	267.0	275.0	286.5	286.5	291.0	299.0	312.5	312.5	304.0	312.5	331.3	331.3	312.0	320.0	343.8	343.8
		kW	213.6	220.0	229.2	229.2	232.8	239.2	250.0	250.0	243.2	250.0	265.0	265.0	249.6	256.0	275.0	275.0
	Efficiency (%)	92.9	93.0	93.1	93.2	92.6	92.7	92.8	92.9	92.4	92.6	92.5	92.7	92.2	92.4	92.3	92.3	

Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K274C	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.45	2.21	2.05	-	2.76	2.58	2.36	2.30
X'd DIR. AXIS TRANSIENT	0.20	0.18	0.17	-	0.24	0.22	0.21	0.20
X''d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	-	0.16	0.15	0.14	0.13
Xq QUAD. AXIS REACTANCE	1.59	1.43	1.33	-	1.58	1.48	1.35	1.32
X''q QUAD. AXIS SUBTRANSIENT	0.18	0.16	0.15	-	0.23	0.21	0.20	0.19
X L LEAKAGE REACTANCE	0.07	0.06	0.06	-	0.08	0.07	0.07	0.07
X 2 NEGATIVE SEQUENCE	0.16	0.14	0.13	-	0.19	0.18	0.16	0.16
X 0 ZERO SEQUENCE	0.10	0.09	0.08	-	0.12	0.11	0.10	0.10
T'd TRANSIENT TIME CONST.	0.028s	0.028s	0.028s	-	0.028s	0.028s	0.028s	0.028s
T''d SUB-TRANSTIME CONST.	0.001s	0.001s	0.001s	-	0.001s	0.001s	0.001s	0.001s
T'do O.C. FIELD TIME CONST.	0.8s	0.8s	0.8s	-	0.8s	0.8s	0.8s	0.8s
Ta ARMATURE TIME CONST.	0.007s	0.007s	0.007s	-	0.007s	0.007s	0.007s	0.007s

Power Factor=0.8

WINDING 311 P.F.=0.8 A.R.K274C S	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.45	2.21	2.05	-	2.76	2.58	2.36	2.30
X'd DIR. AXIS TRANSIENT	0.20	0.18	0.17	-	0.24	0.22	0.21	0.20
X''d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	-	0.16	0.15	0.14	0.13
Xq QUAD. AXIS REACTANCE	1.59	1.43	1.33	-	1.58	1.48	1.35	1.32
X''q QUAD. AXIS SUBTRANSIENT	0.18	0.16	0.15	-	0.23	0.21	0.20	0.19
X L LEAKAGE REACTANCE	0.07	0.06	0.06	-	0.08	0.07	0.07	0.07
X 2 NEGATIVE SEQUENCE	0.16	0.14	0.13	-	0.19	0.18	0.16	0.16
X 0 ZERO SEQUENCE	0.10	0.09	0.08	-	0.12	0.11	0.10	0.10
T'd TRANSIENT TIME CONST.	0.028s	0.028s	0.028s	-	0.028s	0.028s	0.028s	0.028s
T''d SUB-TRANSTIME CONST.	0.001s	0.001s	0.001s	-	0.001s	0.001s	0.001s	0.001s
T'do O.C. FIELD TIME CONST.	0.8s	0.8s	0.8s	-	0.8s	0.8s	0.8s	0.8s
Ta ARMATURE TIME CONST.	0.007s	0.007s	0.007s	-	0.007s	0.007s	0.007s	0.007s

WINDING 311 P.F.=0.8 A.R.K274D	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.17	2.06	1.82	-	2.52	2.36	2.16	2.11
X'd DIR. AXIS TRANSIENT	0.18	0.18	0.16	-	0.21	0.20	0.18	0.17
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.10	-	0.15	0.14	0.13	0.12
Xq QUAD. AXIS REACTANCE	1.39	1.32	1.17	-	1.49	1.39	1.28	1.25
X''q QUAD. AXIS SUBTRANSIENT	0.16	0.16	0.14	-	0.21	0.20	0.18	0.17
X L LEAKAGE REACTANCE	0.07	0.06	0.06	-	0.07	0.07	0.06	0.06
X 2 NEGATIVE SEQUENCE	0.14	0.13	0.12	-	0.17	0.16	0.15	0.14
X 0 ZERO SEQUENCE	0.09	0.08	0.07	-	0.10	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.031s	0.031s	0.031s	-	0.031s	0.031s	0.031s	0.031s
T''d SUB-TRANSTIME CONST.	0.01s	0.01s	0.01s	-	0.01s	0.01s	0.01s	0.01s
T'do O.C. FIELD TIME CONST.	0.85s	0.85s	0.85s	-	0.85s	0.85s	0.85s	0.85s
Ta ARMATURE TIME CONST.	0.0073s	0.0073s	0.0073s	-	0.0073s	0.0073s	0.0073s	0.0073s

WINDING 311 P.F.=0.8 A.R.K274DS	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.17	2.06	1.82	-	2.52	2.36	2.16	2.11
X'd DIR. AXIS TRANSIENT	0.18	0.18	0.16	-	0.21	0.20	0.18	0.17
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.10	-	0.15	0.14	0.13	0.12
Xq QUAD. AXIS REACTANCE	1.39	1.32	1.17	-	1.49	1.39	1.28	1.25
X''q QUAD. AXIS SUBTRANSIENT	0.16	0.16	0.14	-	0.21	0.20	0.18	0.17
X L LEAKAGE REACTANCE	0.07	0.06	0.06	-	0.07	0.07	0.06	0.06
X 2 NEGATIVE SEQUENCE	0.14	0.13	0.12	-	0.17	0.16	0.15	0.14
X 0 ZERO SEQUENCE	0.09	0.08	0.07	-	0.10	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.031s	0.031s	0.031s	-	0.031s	0.031s	0.031s	0.031s
T''d SUB-TRANSTIME CONST.	0.01s	0.01s	0.01s	-	0.01s	0.01s	0.01s	0.01s
T'do O.C. FIELD TIME CONST.	0.85s	0.85s	0.85s	-	0.85s	0.85s	0.85s	0.85s
Ta ARMATURE TIME CONST.	0.0073s	0.0073s	0.0073s	-	0.0073s	0.0073s	0.0073s	0.0073s

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WINDING 311 P.F.=0.8 A.R.K274E	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.34	2.11	1.96	-	2.68	2.51	2.29	2.25
X'd DIR. AXIS TRANSIENT	0.21	0.19	0.18	-	0.25	0.23	0.21	0.21
X''d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	-	0.17	0.16	0.15	0.14
Xq QUAD. AXIS REACTANCE	1.53	1.38	1.28	-	1.74	1.63	1.49	1.46
X''q QUAD. AXIS SUBTRANSIENT	0.18	0.16	0.15	-	0.22	0.21	0.19	0.18
X L LEAKAGE REACTANCE	0.08	0.08	0.07	-	0.09	0.08	0.08	0.08
X 2 NEGATIVE SEQUENCE	0.16	0.14	0.13	-	0.19	0.18	0.16	0.16
X 0 ZERO SEQUENCE	0.10	0.09	0.08	-	0.11	0.10	0.09	0.09
T'd TRANSIENT TIME CONST.	0.032s	0.032s	0.032s	-	0.032s	0.032s	0.032s	0.032s
T''d SUB-TRANSTIME CONST.	0.01s	0.01s	0.01s	-	0.01s	0.01s	0.01s	0.01s
T'do O.C. FIELD TIME CONST.	0.85s	0.85s	0.85s	-	0.85s	0.85s	0.85s	0.85s
Ta ARMATURE TIME CONST.	0.007s	0.007s	0.007s	-	0.007s	0.007s	0.007s	0.007s

WINDING 311 P.F.=0.8 A.R.K274F	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.24	2.02	1.88	-	2.53	2.37	2.17	2.16
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	-	0.21	0.20	0.18	0.18
X''d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.11	-	0.14	0.13	0.12	0.12
Xq QUAD. AXIS REACTANCE	1.38	1.25	1.16	-	1.53	1.43	1.31	1.31
X''q QUAD. AXIS SUBTRANSIENT	0.17	0.15	0.14	-	0.20	0.19	0.17	0.17
X L LEAKAGE REACTANCE	0.07	0.06	0.06	-	0.09	0.08	0.08	0.08
X 2 NEGATIVE SEQUENCE	0.14	0.13	0.12	-	0.16	0.15	0.14	0.14
X 0 ZERO SEQUENCE	0.08	0.08	0.07	-	0.10	0.09	0.09	0.09
T'd TRANSIENT TIME CONST.	0.035s	0.035s	0.035s	-	0.035s	0.035s	0.035s	0.035s
T''d SUB-TRANSTIME CONST.	0.011s	0.011s	0.011s	-	0.011s	0.011s	0.011s	0.011s
T'do O.C. FIELD TIME CONST.	0.9s	0.9s	0.9s	-	0.9s	0.9s	0.9s	0.9s
Ta ARMATURE TIME CONST.	0.009s	0.009s	0.009s	-	0.009s	0.009s	0.009s	0.009s

WINDING 311 P.F.=0.8 A.R.K274FS	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.24	2.02	1.88	-	2.53	2.37	2.17	2.16
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	-	0.21	0.20	0.18	0.18
X''d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.11	-	0.14	0.13	0.12	0.12
Xq QUAD. AXIS REACTANCE	1.38	1.25	1.16	-	1.53	1.43	1.31	1.31
X''q QUAD. AXIS SUBTRANSIENT	0.17	0.15	0.14	-	0.20	0.19	0.17	0.17
X L LEAKAGE REACTANCE	0.07	0.06	0.06	-	0.09	0.08	0.08	0.08
X 2 NEGATIVE SEQUENCE	0.14	0.13	0.12	-	0.16	0.15	0.14	0.14
X 0 ZERO SEQUENCE	0.08	0.08	0.07	-	0.10	0.09	0.09	0.09
T'd TRANSIENT TIME CONST.	0.035s	0.035s	0.035s	-	0.035s	0.035s	0.035s	0.035s
T''d SUB-TRANSTIME CONST.	0.011s	0.011s	0.011s	-	0.011s	0.011s	0.011s	0.011s
T'do O.C. FIELD TIME CONST.	0.9s	0.9s	0.9s	-	0.9s	0.9s	0.9s	0.9s
Ta ARMATURE TIME CONST.	0.009s	0.009s	0.009s	-	0.009s	0.009s	0.009s	0.009s

WINDING 311 P.F.=0.8 A.R.K274G	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.12	1.92	1.78	-	2.43	2.31	2.11	2.06
X'd DIR. AXIS TRANSIENT	0.18	0.17	0.16	-	0.21	0.20	0.18	0.18
X''d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.11	-	0.15	0.14	0.13	0.12
Xq QUAD. AXIS REACTANCE	1.28	1.15	1.07	-	1.47	1.40	1.28	1.24
X''q QUAD. AXIS SUBTRANSIENT	0.17	0.16	0.15	-	0.18	0.17	0.16	0.15
X L LEAKAGE REACTANCE	0.08	0.07	0.07	-	0.09	0.08	0.08	0.07
X 2 NEGATIVE SEQUENCE	0.13	0.12	0.11	-	0.16	0.15	0.13	0.13
X 0 ZERO SEQUENCE	0.08	0.07	0.07	-	0.10	0.09	0.08	0.08
T'd TRANSIENT TIME CONST.	0.038s	0.038s	0.038s	-	0.038s	0.038s	0.038s	0.038s
T''d SUB-TRANSTIME CONST.	0.012s	0.012s	0.012s	-	0.012s	0.012s	0.012s	0.012s
T'do O.C. FIELD TIME CONST.	1s	1s	1s	-	1s	1s	1s	1s
Ta ARMATURE TIME CONST.	0.01s	0.01s	0.01s	-	0.01s	0.01s	0.01s	0.01s

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WINDING 311 P.F.=0.8 A.R.K274H	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.11	1.91	1.77	-	2.50	2.31	2.11	2.02
X'd DIR. AXIS TRANSIENT	0.18	0.16	0.15	-	0.21	0.19	0.118	0.17
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.10	-	0.14	0.13	0.12	0.11
Xq QUAD. AXIS REACTANCE	1.28	1.15	1.07	-	1.53	1.41	1.29	1.23
X''q QUAD. AXIS SUBTRANSIENT	0.17	0.15	0.14	-	0.20	0.18	0.17	0.16
X L LEAKAGE REACTANCE	0.08	0.08	0.07	-	0.10	0.09	0.08	0.08
X 2 NEGATIVE SEQUENCE	0.13	0.12	0.11	-	0.16	0.15	0.13	0.13
X 0 ZERO SEQUENCE	0.08	0.07	0.07	-	0.10	0.09	0.08	0.08
T'd TRANSIENT TIME CONST.	0.042s	0.042s	0.042s	-	0.042s	0.042s	0.042s	0.042s
T''d SUB-TRANSTIME CONST.	0.012s	0.012s	0.012s	-	0.012s	0.012s	0.012s	0.012s
T'do O.C. FIELD TIME CONST.	1.1s	1.1s	1.1s	-	1.1s	1.1s	1.1s	1.1s
Ta ARMATURE TIME CONST.	0.012s	0.012s	0.012s	-	0.012s	0.012s	0.012s	0.012s

WINDING 311 P.F.=0.8 A.R.K274J	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	1.939	1.750	1.626	-	2.651	2.475	2.370	2.221
X'd DIR. AXIS TRANSIENT	0.103	0.093	0.086	-	0.164	0.153	0.147	0.137
X''d DIR. AXIS SUBTRANSIENT	0.070	0.064	0.059	-	0.096	0.090	0.086	0.080
Xq QUAD. AXIS REACTANCE	0.886	0.800	0.743	-	1.206	1.126	1.078	1.010
X''q QUAD. AXIS SUBTRANSIENT	0.163	0.147	0.137	-	0.138	0.129	0.123	0.116
X L LEAKAGE REACTANCE	0.062	0.056	0.052	-	0.081	0.076	0.072	0.068
X 2 NEGATIVE SEQUENCE	0.117	0.105	0.098	-	0.117	0.109	0.105	0.098
X 0 ZERO SEQUENCE	0.044	0.040	0.037	-	0.048	0.045	0.043	0.040
T'd TRANSIENT TIME CONST.	0.045s	0.045s	0.045s	-	0.045s	0.045s	0.045s	0.045s
T''d SUB-TRANSTIME CONST.	0.015s	0.015s	0.015s	-	0.015s	0.015s	0.015s	0.015s
T'do O.C. FIELD TIME CONST.	1.27s	1.27s	1.27s	-	1.27s	1.27s	1.27s	1.27s
Ta ARMATURE TIME CONST.	0.03s	0.03s	0.03s	-	0.03s	0.03s	0.03s	0.03s

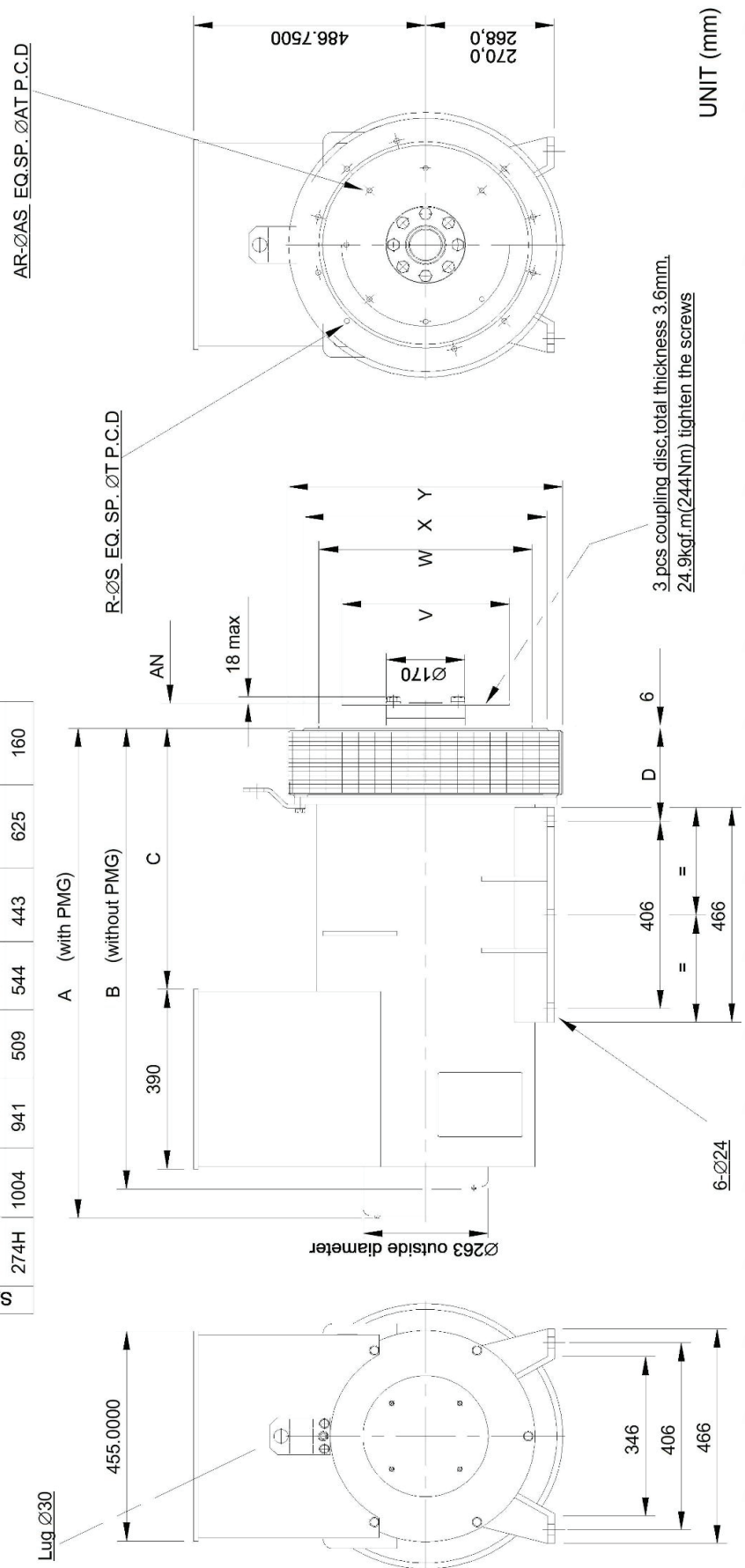
WINDING 311 P.F.=0.8 A.R.K274K	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.825	2.550	2.369	-	3.161	2.903	2.776	2.550
X'd DIR. AXIS TRANSIENT	0.132	0.119	0.111	-	0.148	0.136	0.130	0.119
X''d DIR. AXIS SUBTRANSIENT	0.086	0.078	0.072	-	0.097	0.089	0.085	0.078
Xq QUAD. AXIS REACTANCE	1.263	1.140	1.059	-	1.413	1.298	1.241	1.140
X''q QUAD. AXIS SUBTRANSIENT	0.152	0.137	0.127	-	0.170	0.156	0.149	0.137
X L LEAKAGE REACTANCE	0.066	0.060	0.056	-	0.074	0.068	0.065	0.060
X 2 NEGATIVE SEQUENCE	0.120	0.108	0.100	-	0.134	0.123	0.118	0.108
X 0 ZERO SEQUENCE	0.022	0.020	0.019	-	0.025	0.023	0.022	0.020
T'd TRANSIENT TIME CONST.	0.049s	0.049s	0.049s	-	0.049s	0.049s	0.049s	0.049s
T''d SUB-TRANSTIME CONST.	0.02s	0.02s	0.02s	-	0.02s	0.02s	0.02s	0.02s
T'do O.C. FIELD TIME CONST.	1.27s	1.27s	1.27s	-	1.27s	1.27s	1.27s	1.27s
Ta ARMATURE TIME CONST.	0.018s	0.018s	0.018s	-	0.018s	0.018s	0.018s	0.018s



Boyutlar - Tek Yatak

ADAPTOR										COUPLING DISC							
S.A.E	D	R	S	T	W	X	Y	S.A.E	AN	AR	AS	AT	V				
No.								No.									
1	216,3	12	12,7	530,2	511,1	553	580	10	53,98	8	11	295,3	314,2				
2	202	12	11	466,7	447,6	490	530	11,5	39,68	8	11	333,3	352,3				
3	202	12	11	428,6	409,5	451	530	14	25,40	8	13,5	438,2	466,6				

MODEL	DIMENSION					NET. POWER		
	A	B	C	E	C of G	(Kg)	(KW)	
SAE1	274C(S)	813,3	750,3	318,3	554	365	399	80
	274D(S)	813,3	750,3	318,3	554	375	423	100
	274E	928,3	865,3	433,3	554	390	490	112
	274F(S)	928,3	865,3	433,3	554	415	528	128
	274G	978,3	915,3	483,3	554	435	580	150
	274H	1018,3	955,3	523,3	554	455	626	160
	274C(S)	799	736	304	544	353	398	80
SAE2&3	274D(S)	799	736	304	544	363	422	100
	274E	914	851	419	544	378	489	112
	274F(S)	914	851	419	544	403	527	128
	274G	964	901	469	544	423	579	150
	274H	1004	941	509	544	443	625	160



DATA SHEET - A.R.K 4

TEKNİK ÖZELLİKLER VE OPSİYONLAR

Standartlar

- ARK serisi alternatörler uluslararası standart ve şartnamelerin birçoğuna uygunluk gösterir. Bunlar:
-IEC60034, GB755, BS5000, VDE0530, NEMA, MG122,C22.2-100, CSA, AS1359 vb.
- ARK serisi alternatörler ISO9001 kalite sistemi sertifikalıdır.
- ARK serisi alternatörler CE işaretli jeneratör setlerinde kullanılabilir.
- Talep edilmesi durumunda diğer standartlara uygun imalat imkanı vardır.

Elektriksel Karakteristikler

- Yalıtım ve Emprenye
Tüm sargı bileşenleri jeneratör uygulamalarında karşılaşılan sert ortamlara karşı koruma sağlamak üzere özel tasarlanmış malzeme ve proses ile emprene edilmiştir.
- 3 faz sargısından gelen 12 uç terminallere taşınarak farklı bağlantı şekilleri mümkün kılınmaktadır.
- 2/3 sarım adımı (pitch) doğrusal olmayan yüklerin sorunsuz beslenmesi açısından şu anda mevcut en optimum dizayn olarak üçüncü derece gerilim harmoniklerine (3., 9.,15...) mani olur.
- Bastırma derecesi
- Radyo parazitleri
- Yüksek verim ve yol verme kabiliyeti

İkaz ve Gerilim Düzenleme (Regülasyon) Sistemleri

MODEL	16 series	18 series	22 series	27 series	4 series	5 series	6 series	7 series
AVR								
SX460	Standart	Standart	Standart	Standart				
AS440(parallel optional)	Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel				
SX440(parallel optional)			Opsiyonel	Opsiyonel	Standart	Standart		
MX341(with PMG)			Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel		
MX321(with PMG)							Standart	Standart

Kendinden ikazlı sistem sayesinde ana stator Otomatik Gerilim Düzenleyici (AVR- Automatic Voltage Regulator) üzerinden ikaz statorunu besler. Yüksek verimli AVR gerilimin ikaz rotor çıkışı tam dalga köprü doğrultucu üzerinden ana rotoru besler.

- Çelik yapı
- Döküm alüminyumdan ön ve arka kapaklar
- Çalışma esnasındaki titreşimi önemli ölçüde azaltan rijit imalat.
- Tüm rotorlar BS6861'e uygun olarak dinamik balanslıdır.
- Bakımsız, ömür boyu sızdırmaz rulman yatak
- %120 aşırı hız dayanım
- Standart Özellikler
- Opsiyonlar
 - Giriş-çıkış filtreleri, %5 güç düşümüyle
 - Giriş-çıkış filtreleri, %10 güç düşümüyle (IP44)
 - Yoğunlaşma önleyici ısıtıcı
 - Stator sargıları ve yataklar için aşırı ısınma koruması
 - Merkez yüksekliği ihtiyaca göre ayarlanabilir.

Uygulama

Primer/yedek güç sistemleri, kiralama, telekom, mobil elektrik santralleri, aydınlatma kuleleri, demir yolları, soğutucular.

Kalite Güvence

ARK Serisi alternatörler ISO9001 kalite güvence sistemi kapsamında uygulanan üretim prosedürlerine uygun olarak imal edilmektedirler.

Not: Sürekli ürün gelişimine bağlı olarak ürün özelliklerinde haber vermeden değişiklik yapılabilmekte olduğundan, burada verilen bilgiler bağlayıcı değildir.

GENEL BİLGİLER

İZOLASYON SİSTEMİ
ANMA GÜÇ FAKTÖRÜ
KORUMA
STATOR SARGISI
ADIM
SARGI UÇLARI

H
0.8
IP23
EŞZAMANLI ÇİFT KATMAN
2/3
12

KONTROL SİSTEMİ
YÜKSEKLİK
AŞIRI HIZ
DALGA FORM SAPMASI
YÜKSÜZ < %1.5 SAPMA OLMAYAN DENGELENMİŞ LINEAR YÜK
< %5.0

KENDİNDEN UYARMALI
1000m
2250 Devir/Dakika

TELEFON PARAZİTİ	THF<%250HZ		THF<%2 60HZ		
UYARTIM SİSTEMİ	SX460	SX440	AS440	MX341	MX321
VOLTAJ REGÜLASYON ORANI	%±1.5	±%1.0	±%1.0	±%1.0	±%0.5
DÜŞÜK VOLTAJ KORUMASI	Standart	Standart	Standart	Standart	Standart
KISA DEVRE ELEKTRİK KABİLİYETİ				%300:10S	%300:10S
PARALEL OPERASYON		Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel

POWER - 1500 RPM

KVA/KW - Power Factor = 0.8

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50HZ	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel S tar (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)□	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	A.R.K4C kVA	220	220	220	220	250	250	250	250	259	259	259	259	268	268	268	268
	kW	176	176	176	176	200	200	200	200	207	207	207	207	214	214	214	214
	Efficiency (%)	93.1	93.9	93.5	93.7	92.5	92.8	93	93.3	92.2	92.6	92.8	93.1	92	92.4	92.6	92.9
	A.R.K4D kVA	268	268	268	255	295	295	295	280	313	313	313	295	323	323	323	305
	kW	214	214	214	204	236	236	236	224	250	250	250	236	258	258	258	244
	Efficiency (%)	93.9	93.5	93.7	94	92.8	93.1	93.3	93.7	92.5	92.8	93	93.5	92.3	92.6	92.8	93.4
	A.R.K4ES kVA	300	300	300	300	313	313	313	325	345	345	345	345	358	358	358	358
	kW	240	240	240	240	250	250	250	260	276	276	276	276	286	286	286	286
	Efficiency (%)	93.9	94.1	94.2	94.3	93.2	93.5	93.6	94.1	93.3	93.5	93.7	93.9	93.1	93.4	93.5	93.7
	A.R.K4E kVA	300	300	300	300	325	325	325	325	345	345	345	345	358	358	358	358
	kW	240	240	240	240	260	260	260	260	276	276	276	276	286	286	286	286
	Efficiency (%)	93.9	94.1	94.2	94.3	93.6	93.8	93.9	94.1	93.3	93.5	93.7	93.9	93.1	93.4	93.5	93.7
	A.R.K4F kVA	350	350	350	350	380	380	380	380	390	390	390	390	404	404	404	404
	kW	280	280	280	280	304	304	304	304	312	312	312	312	323	323	323	323
	Efficiency (%)	93.8	94	94.1	94.2	93.4	93.7	93.8	94	93.3	93.5	93.7	93.9	93.1	93.4	93.5	93.7
	A.R.K4FG kVA	350	350	350	350	400	400	400	400	390	390	390	390	450	450	450	450
	kW	280	280	280	280	320	320	320	320	312	312	312	312	360	360	360	360
	Efficiency (%)	93.8	94	94.1	94.2	93.1	93.3	93.5	94	93.3	93.5	93.7	93.9	93.1	93.4	93.5	93.7
	A.R.K4FS kVA	350	350	350	350	344	344	344	380	390	390	390	390	404	404	404	404
	kW	280	280	280	280	275	275	275	304	312	312	312	312	323	323	323	323
	Efficiency (%)	93.8	94	94.1	94.2	93.1	93.3	93.5	94	93.3	93.5	93.7	93.9	93.1	93.4	93.5	93.7

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
60HZ	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel S tar (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Series Delta (V)□	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	A.R.K4C kVA	265	270	275	281	281	294	300	313	300	313	319	332	313	325	331	344
	kW	212	216	220	225	225	235	240	250	240	250	255	266	250	260	265	275
	Efficiency (%)	92.9	93.2	93.3	93.4	92.7	92.8	93	93	92.3	92.5	92.7	92.7	92	92.3	92.5	92.5
	A.R.K4D kVA	305	315	330	340	338	350	363	375	356	375	388	400	363	383	398	413
	kW	244	252	264	272	270	280	290	300	285	300	310	320	290	306	318	330
	Efficiency (%)	93.4	93.5	93.6	93.7	92.9	93.1	93.2	93.3	92.7	92.8	92.9	93	92.6	92.7	92.7	92.8
	A.R.K4E kVA	350	363	375	381	381	394	406	440	406	419	431	444	419	431	444	475
	kW	280	290	300	305	305	315	325	352	325	35	345	355	335	345	355	380
	Efficiency (%)	93.9	94	94.1	94.2	93.6	93.7	93.8	93.7	93.3	93.5	93.6	93.6	93.1	93.3	93.4	93.3
	A.R.K4ES kVA	350	363	375	381	375	394	419	419	406	419	431	444	419	431	444	456
	kW	280	290	300	305	300	315	335	335	325	35	345	355	335	345	355	365
	Efficiency (%)	93.9	94	94.1	94.2	93.3	93.5	93.7	93.9	93.3	93.5	93.6	93.6	93.1	93.3	93.4	93.5
	A.R.K4F kVA	405	420	425	438	444	456	463	500	475	483	488	500	488	500	506	550
	kW	324	336	340	350	355	365	370	400	380	386	390	400	390	400	405	440
	Efficiency (%)	93.9	94	94.1	94.1	93.5	93.7	93.8	93.7	93.2	93.4	93.6	93.7	93	93.2	93.4	93.2
	A.R.K4FG kVA	405	420	425	438	425	425	440	475	475	483	488	500	488	500	506	519
	kW	324	336	340	350	340	340	352	380	380	386	390	400	390	400	405	415
	Efficiency (%)	93.9	94	94.1	94.1	93.5	93.5	93.5	93.9	93.2	93.4	93.6	93.7	93	93.2	93.4	93.5
	A.R.K4FS kVA	405	420	425	438	425	425	440	475	475	483	488	500	488	500	506	519
	kW	324	336	340	350	340	340	352	380	380	386	390	400	390	400	405	415
	Efficiency (%)	93.9	94	94.1	94.1	93.4	93.4	93.5	93.9	93.2	93.4	93.6	93.7	93	93.2	93.4	93.5



Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K4C	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.15	2.84	2.64	2.35	3.69	3.45	3.22	3.09
X'd DIR. AXIS TRANSIENT	0.2	0.18	0.17	0.15	0.24	0.22	0.21	0.2
X''d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	0.11	0.16	0.15	0.14	0.13
Xq QUAD. AXIS REACTANCE	2.71	2.44	2.27	2.02	3.19	2.98	2.79	2.67
X''q QUAD. AXIS SUBTRANSIENT	0.39	0.36	0.33	0.29	0.43	0.4	0.38	0.36
X L LEAKAGE REACTANCE	0.1	0.09	0.08	0.07	0.1	0.09	0.09	0.08
X 2 NEGATIVE SEQUENCE	0.27	0.25	0.23	0.2	0.3	0.28	0.26	0.25
X 0 ZERO SEQUENCE	0.1	0.09	0.08	0.07	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s
T'do O.C. FIELD TIME CONST.	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s
Ta ARMATURE TIME CONST.	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s

Power Factor=0.8

WINDING 311 P.F.=0.8 A.R.K4D	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.11	2.81	2.61	2.2	3.54	3.28	3.11	2.95
X'd DIR. AXIS TRANSIENT	0.2	0.18	0.17	0.14	0.22	0.2	0.19	0.18
X''d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	0.1	0.15	0.14	0.13	0.13
Xq QUAD. AXIS REACTANCE	2.61	2.36	2.19	1.85	3.03	2.8	2.66	2.53
X''q QUAD. AXIS SUBTRANSIENT	0.38	0.34	0.32	0.27	0.4	0.37	0.35	0.33
X L LEAKAGE REACTANCE	0.07	0.06	0.06	0.05	0.09	0.08	0.08	0.08
X 2 NEGATIVE SEQUENCE	0.26	0.24	0.22	0.19	0.28	0.26	0.25	0.23
X 0 ZERO SEQUENCE	0.1	0.09	0.08	0.07	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s
T'do O.C. FIELD TIME CONST.	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s
Ta ARMATURE TIME CONST.	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s

WINDING 311 P.F.=0.8 A.R.K4E	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.79	2.52	2.34	2.08	3.33	3.08	2.9	2.75
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.14	0.2	0.18	0.17	0.17
X''d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.11	0.1	0.14	0.13	0.12	0.12
Xq QUAD. AXIS REACTANCE	2.4	2.16	2.01	1.79	2.8	2.59	2.44	2.31
X''q QUAD. AXIS SUBTRANSIENT	0.33	0.3	0.28	0.25	0.39	0.36	0.34	0.32
X L LEAKAGE REACTANCE	0.07	0.06	0.06	0.05	0.08	0.07	0.07	0.07
X 2 NEGATIVE SEQUENCE	0.23	0.2	0.19	0.17	0.27	0.25	0.24	0.22
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.06	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s
T'do O.C. FIELD TIME CONST.	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s
Ta ARMATURE TIME CONST.	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s

WINDING 311 P.F.=0.8 A.R.K4ES	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.79	2.52	2.34	2.08	3.33	3.08	2.9	2.75
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.14	0.2	0.18	0.17	0.17
X''d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.11	0.1	0.14	0.13	0.12	0.12
Xq QUAD. AXIS REACTANCE	2.4	2.16	2.01	1.79	2.8	2.59	2.44	2.31
X''q QUAD. AXIS SUBTRANSIENT	0.33	0.3	0.28	0.25	0.39	0.36	0.34	0.32
X L LEAKAGE REACTANCE	0.07	0.06	0.06	0.05	0.08	0.07	0.07	0.07
X 2 NEGATIVE SEQUENCE	0.23	0.2	0.19	0.17	0.27	0.25	0.24	0.22
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.06	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s
T'do O.C. FIELD TIME CONST.	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s
Ta ARMATURE TIME CONST.	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s

Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K4F	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.59	2.34	2.17	1.93	3.21	2.95	2.74	2.58
X'd DIR. AXIS TRANSIENT	0.17	0.15	0.14	0.12	0.18	0.17	0.15	0.14
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.1	0.09	0.13	0.12	0.11	0.1
Xq QUAD. AXIS REACTANCE	2.23	2.01	1.87	1.66	2.84	2.61	2.42	2.28
X''q QUAD. AXIS SUBTRANSIENT	0.3	0.27	0.25	0.22	0.42	0.39	0.36	0.34
X L LEAKAGE REACTANCE	0.06	0.05	0.05	0.04	0.07	0.06	0.06	0.06
X 2 NEGATIVE SEQUENCE	0.21	0.19	0.18	0.16	0.28	0.26	0.24	0.22
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.06	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s
T'do O.C. FIELD TIME CONST.	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s
Ta ARMATURE TIME CONST.	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s

Power Factor=0.8

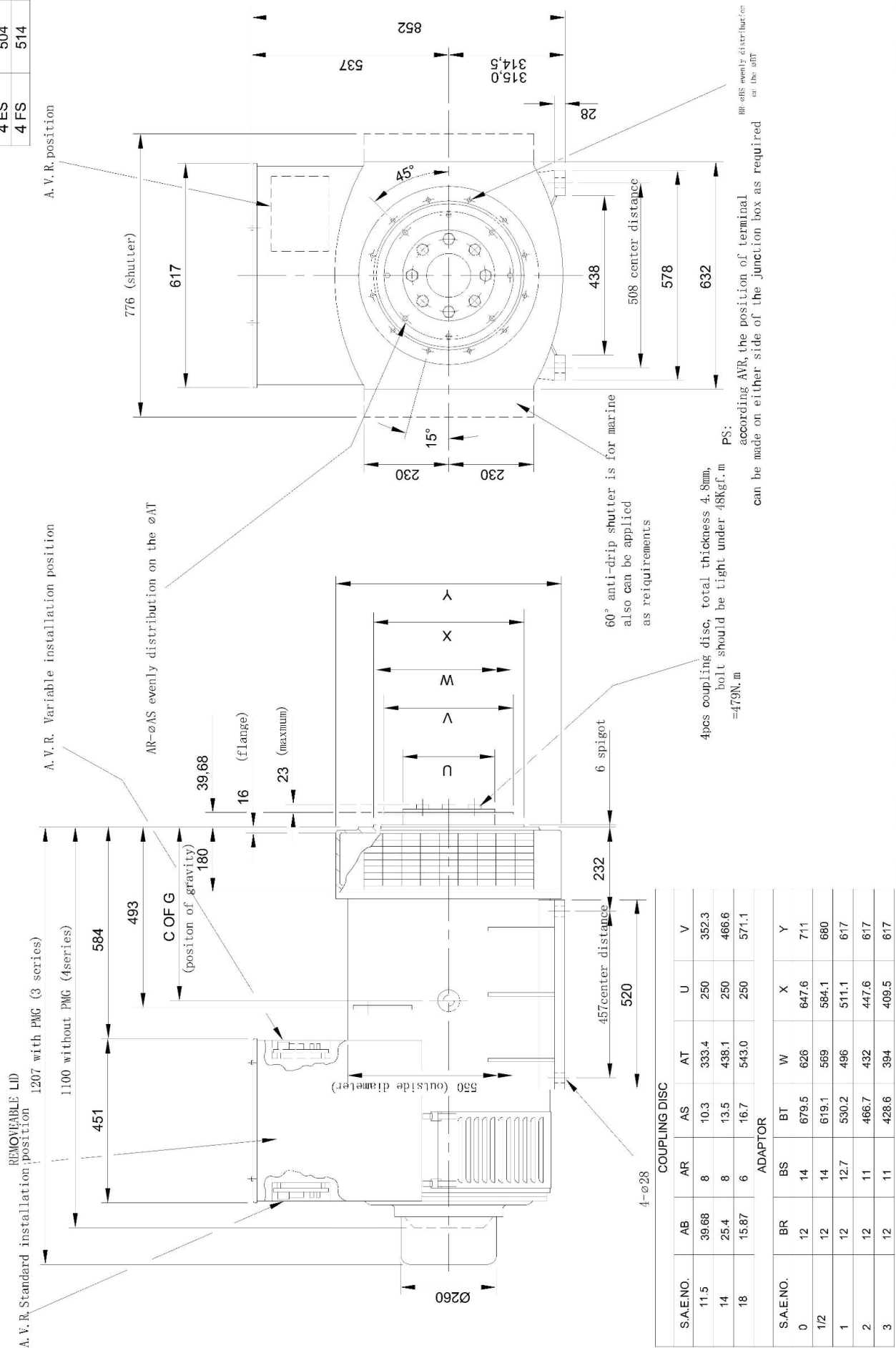
WINDING 311 P.F.=0.8 A.R.K4FG	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.59	2.34	2.17	1.93	3.21	2.95	2.74	2.58
X'd DIR. AXIS TRANSIENT	0.17	0.15	0.14	0.12	0.12	0.17	0.15	0.14
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.1	0.09	0.09	0.12	0.11	0.1
Xq QUAD. AXIS REACTANCE	2.23	2.01	1.87	1.66	1.66	2.61	2.42	2.28
X''q QUAD. AXIS SUBTRANSIENT	0.3	0.27	0.25	0.22	0.22	0.39	0.36	0.34
X L LEAKAGE REACTANCE	0.06	0.05	0.05	0.04	0.04	0.06	0.06	0.06
X 2 NEGATIVE SEQUENCE	0.21	0.19	0.18	0.16	0.16	0.26	0.26	0.22
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.06	0.06	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s
T'do O.C. FIELD TIME CONST.	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s
Ta ARMATURE TIME CONST.	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s

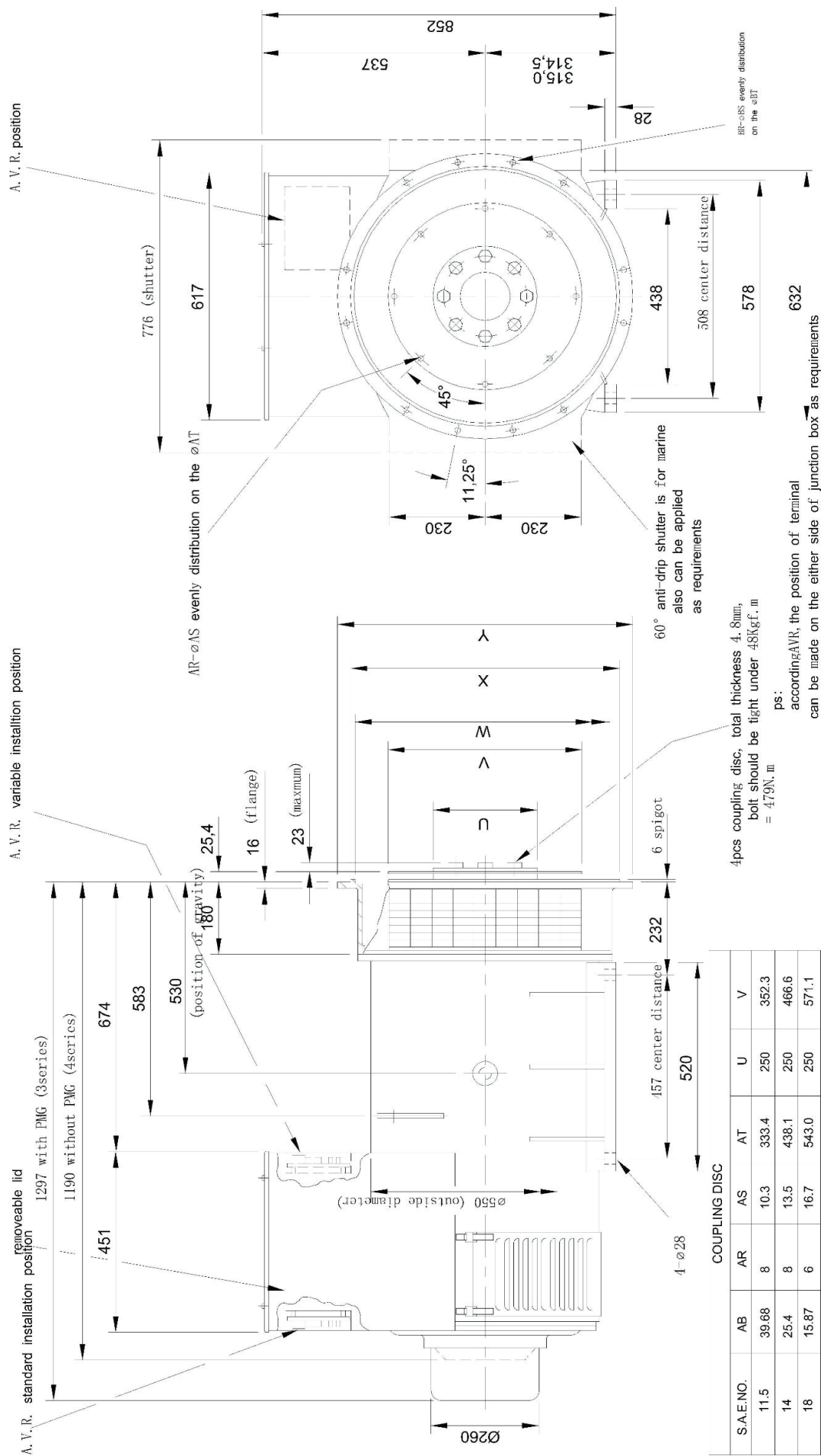
WINDING 311 P.F.=0.8 A.R.K4FS	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.59	2.34	2.17	1.93	3.21	2.95	2.74	2.58
X'd DIR. AXIS TRANSIENT	0.17	0.15	0.14	0.12	0.18	0.17	0.15	0.14
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.1	0.09	0.13	0.12	0.11	0.1
Xq QUAD. AXIS REACTANCE	2.23	2.01	1.87	1.66	2.84	2.61	2.42	2.28
X''q QUAD. AXIS SUBTRANSIENT	0.3	0.27	0.25	0.22	0.42	0.39	0.36	0.34
X L LEAKAGE REACTANCE	0.06	0.05	0.05	0.04	0.07	0.06	0.06	0.06
X 2 NEGATIVE SEQUENCE	0.21	0.19	0.18	0.16	0.28	0.26	0.24	0.22
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.06	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s
T'do O.C. FIELD TIME CONST.	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s	1.7s
Ta ARMATURE TIME CONST.	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s



Boyutlar - Tek Yatak

core	COF G
4 C	463
4 D	483
4 ES	504
4 FS	514





4F,FG

COUPLING DISC						
S.A.E.NO.	AB	AR	AS	AT	U	V
11.5	39.68	8	10.3	333.4	250	352.3
14	25.4	8	13.5	438.1	250	466.6
18	15.87	6	16.7	543.0	250	571.1
ADAPTOR						
S.A.E.NO.	BR	BS	BT	W	X	Y
0	12	14	679.5	626	647.6	711
1/2	12	14	619.1	569	584.1	680
1	12	12.7	530.2	496	511.1	617
2	12	11	466.7	432	447.6	617
3	12	11	428.6	394	409.5	617

DATA SHEET - A.R.K 5

TEKNİK ÖZELLİKLER VE OPSİYONLAR

Standartlar

- ARK serisi alternatörler uluslararası standart ve şartnamelerin birçoğuna uygunluk gösterir. Bunlar:
 - IEC60034, GB755, BS5000, VDE0530, NEMA, MG122,C22.2-100, CSA, AS1359 vb.
- ARK serisi alternatörler ISO9001 kalite sistemi sertifikalıdır.
- ARK serisi alternatörler CE işaretli jeneratör setlerinde kullanılabilir.
- Talep edilmesi durumunda diğer standartlara uygun imalat imkanı vardır.

Elektriksel Karakteristikler

- Yalıtım ve Emprenye
Tüm sargı bileşenleri jeneratör uygulamalarında karşılaşılan sert ortamlara karşı koruma sağlamak üzere özel tasarlanmış malzeme ve proses ile emprene edilmiştir.
- 3 faz sargısından gelen 12 uç terminallere taşınarak farklı bağlantı şekilleri mümkün kılınmaktadır.
- 2/3 sarım adımı (pitch) doğrusal olmayan yüklerin sorunsuz beslenmesi açısından şu anda mevcut en optimum dizayn olarak üçüncü derece gerilim harmoniklerine (3., 9.,15...) manî olur.
- Bastırma derecesi
- Radyo parazitleri
- Yüksek verim ve yol verme kabiliyeti

İkaz ve Gerilim Düzenleme (Regülasyon) Sistemleri

MODEL	16 series	18 series	22 series	27 series	4 series	5 series	6 series	7 series
AVR								
SX460	Standart	Standart	Standart	Standart				
AS440(parallel optional)	Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel				
SX440(parallel optional)			Opsiyonel	Opsiyonel	Standart	Standart		
MX341(with PMG)			Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel		
MX321(with PMG)							Standart	Standart

Kendinden ikazlı sistem sayesinde ana stator Otomatik Gerilim Düzenleyici (AVR- Automatic Voltage Regulator) üzerinden ikaz statorunu besler. Yüksek verimli AVR gerilimin ikaz rotor çıkışı tam dalga köprü doğrultucu üzerinden ana rotoru besler.

- Çelik yapı
- Döküm alüminyumdan ön ve arka kapaklar
- Çalışma esnasındaki titreşimi önemli ölçüde azaltan rijit imalat.
- Tüm rotorlar BS6861'e uygun olarak dinamik balanslıdır.
- Bakımsız, ömür boyu sızdırmaz rulman yatak
- %120 aşırı hız dayanım
- Standart Özellikler
- Opsiyonlar
 - Giriş-çıkış filtreleri, %5 güç düşümüyle
 - Giriş-çıkış filtreleri, %10 güç düşümüyle (IP44)
 - Yoğunlaşma önleyici ısıtıcı
 - Stator sargıları ve yataklar için aşırı ısınma koruması
 - Merkez yüksekliği ihtiyaca göre ayarlanabilir.

Uygulama

Primer/yedek güç sistemleri, kiralama, telekom, mobil elektrik santralleri, aydınlatma kuleleri, demir yolları, soğutucular.

Kalite Güvence

ARK Serisi alternatörler ISO9001 kalite güvence sistemi kapsamında uygulanan üretim prosedürlerine uygun olarak imal edilmektedirler.

Not: Sürekli ürün gelişimine bağlı olarak ürün özelliklerinde haber vermeden değişiklik yapılabilmekte olduğundan, burada verilen bilgiler bağlayıcı değildir.

Doğrultucu, kısa devre voltaj yükselmelerinden veya faz uyumsuzluğundan aşırı gerilim baskılayıcı tarafından korunur.

GENEL BİLGİLER

İZOLASYON SİSTEMİ
ANMA GÜÇ FAKTÖRÜ
KORUMA
STATOR SARGISI
ADIM
SARGI UÇLARI

H
0.8
IP23
EŞZAMANLI ÇİFT KATMAN
2/3
12

KONTROL SİSTEMİ
YÜKSEKLİK
AŞIRI HIZ
DALGA FORM SAPMASI
YÜKSÜZ < %1.5 SAPMA OLMAYAN DENGELENMİŞ LINEAR YÜK
< %5.0

KENDİNDEN UYARMALI
1000m
2250 Devir/Dakika

TELEFON PARAZİTİ	THF<%250HZ		THF<%2 60HZ		
UYARTIM SİSTEMİ	SX460	SX440	AS440	MX341	MX321
VOLTAJ REGÜLASYON ORANI	%±1.5	±%1.0	±%1.0	±%1.0	±%0.5
DÜŞÜK VOLTAJ KORUMASI	Standart	Standart	Standart	Standart	Standart
KISA DEVRE ELEKTRİK KABİLİYETİ				%300:10S	%300:10S
PARALEL OPERASYON		Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel

POWER - 1500 RPM

KVA/KW - Power Factor = 0.8

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50HZ	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel Star (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	A.R.K5C kVA	400	445	400	400	450	500	450	450	478	512	478	478	495	520	495	495
	kW	320	356	320	320	360	400	360	360	382	410	382	382	396	416	396	396
	Efficiency (%)	94.5	94.3	94.8	94.9	94	93.8	94.4	94.6	93.8	93.7	94.2	94.4	93.6	93.6	94.1	94.3
	A.R.K5D kVA	450	495	450	450	500	550	500	500	515	575	515	515	530	590	530	530
	kW	360	396	360	360	400	440	400	400	412	460	412	412	424	472	424	424
	Efficiency (%)	94.8	94.7	95	95.1	94.5	94.3	94.8	94.9	94.9	94.1	94.7	94.9	94.2	94	94.6	94.8
	A.R.K5E kVA	550	560	550	550	600	610	600	600	636	640	636	636	660	665	660	660
	kW	440	448	440	440	480	488	480	480	509	512	509	509	528	532	528	528
	Efficiency (%)	95	95.1	95.2	95.3	94.7	94.9	95	95.2	94.5	94.7	94.8	95	94.3	94.5	94.7	94.9
	A.R.K5ES kVA	550	560	550	550	562	562	562	562	636	640	636	636	660	665	660	660
	kW	440	448	440	440	450	450	450	450	509	512	509	509	528	532	528	528
	Efficiency (%)	95	95.1	95.2	95.3	94.7	94.9	95	95.2	94.5	94.7	94.8	95	94.3	94.5	94.7	94.9
	A.R.K5F kVA	620	620	620	600	670	670	670	650	710	710	710	690	738	738	738	715
	kW	496	496	496	480	536	536	536	520	568	568	568	553	590	590	590	572
	Efficiency (%)	95	95.2	95.3	95.4	94.8	95	95.1	95.3	94.6	94.8	94.9	95.1	94.4	94.6	94.8	95.1
	A.R.K5FS kVA	550	560	550	550	625	625	625	625	636	640	636	636	660	665	660	660
	kW	440	448	440	440	500	500	500	500	509	512	509	509	528	532	528	528
	Efficiency (%)	95	95.1	95.2	95.3	94.7	94.9	95	95.2	94.5	94.7	94.8	95	94.3	94.5	94.7	94.9

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
60HZ	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel Star (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Series Delta (V)	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	A.R.K5C kVA	481	500	531	538	525	550	581	594	550	581	613	625	569	600	631	644
	kW	385	400	425	430	420	440	465	475	440	465	490	500	455	480	505	515
	Efficiency (%)	94.3	94.4	94.4	94.5	94	94.1	94.1	94.2	93.8	93.9	93.9	94	93.5	93.7	93.7	93.9
	A.R.K5D kVA	519	538	563	588	575	594	625	644	588	625	655	675	606	644	673	694
	kW	425	430	450	470	460	475	500	515	470	500	524	540	485	515	538	555
	Efficiency (%)	94.7	94.8	94.9	94.9	94.5	94.6	94.6	94.7	94.4	94.4	94.5	94.5	94.3	94.3	94.4	94.4
	A.R.K5E kVA	625	650	663	675	681	713	731	750	719	750	780	800	738	769	798	819
	kW	500	520	530	540	545	570	585	600	575	600	624	640	590	615	638	655
	Efficiency (%)	95	95.1	95.3	95.3	94.8	94.9	95	95	94.6	94.7	94.8	94.8	94.5	94.6	94.7	94.8
	A.R.K5ES kVA	625	650	663	675	638	656	685	702	719	750	780	800	738	769	798	819
	kW	500	520	530	540	511	525	548	562	575	600	624	640	590	615	638	655
	Efficiency (%)	95	95.1	95.3	95.3	94.8	94.9	95	95	94.6	94.7	94.8	94.8	94.5	94.6	94.7	94.8
	A.R.K5F kVA	688	719	731	750	738	775	800	825	781	819	848	875	806	844	878	906
	kW	550	575	585	600	590	620	640	660	625	655	678	700	645	675	712	764
	Efficiency (%)	95.1	95.2	95.3	95.3	95	95	95.1	95.1	94.8	94.9	94.9	95	681	712	741	764
	A.R.K5FS kVA	625	650	663	675	681	713	731	775	719	750	780	800	738	769	798	819
	kW	500	520	530	540	545	570	585	620	575	600	624	640	590	615	638	655
	Efficiency (%)	95	95.1	95.3	95.3	94.8	94.9	95	95.1	94.6	94.7	94.8	94.8	94.5	94.6	94.7	94.8

Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K5C	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.27	2.95	2.74	2.44	3.94	3.69	3.57	3.35
X'd DIR. AXIS TRANSIENT	0.18	0.16	0.13	0.13	0.18	0.17	0.16	0.15
X''d DIR. AXIS SUBTRANSIENT	0.13	0.12	0.1	0.1	0.13	0.12	0.12	0.11
Xq QUAD. AXIS REACTANCE	2.66	2.4	1.98	1.98	3.12	2.92	2.82	2.65
X''q QUAD. AXIS SUBTRANSIENT	0.26	0.24	0.2	0.2	0.34	0.32	0.31	0.29
X L LEAKAGE REACTANCE	0.07	0.06	0.05	0.05	0.08	0.07	0.07	0.07
X 2 NEGATIVE SEQUENCE	0.19	0.17	0.14	0.14	0.23	0.22	0.21	0.2
X 0 ZERO SEQUENCE	0.11	0.1	0.08	0.08	0.11	0.1	0.1	0.09
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s
T'do O.C. FIELD TIME CONST.	2s	2s	2s	2s	2s	2s	2s	2s
Ta ARMATURE TIME CONST.	0.017s	0.017s	0.017s	0.017s	0.017s	0.017s	0.017s	0.017s

Power Factor=0.8

WINDING 311 P.F.=0.8 A.R.K5D	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.02	2.72	2.53	2.25	3.52	3.25	3.13	2.96
X'd DIR. AXIS TRANSIENT	0.16	0.14	0.13	0.12	0.17	0.16	0.15	0.14
X''d DIR. AXIS SUBTRANSIENT	0.11	0.1	0.09	0.08	0.12	0.11	0.11	0.1
Xq QUAD. AXIS REACTANCE	2.48	2.24	2.08	1.85	2.87	2.65	2.55	2.41
X''q QUAD. AXIS SUBTRANSIENT	0.27	0.25	0.23	0.2	0.31	0.29	0.28	0.26
X L LEAKAGE REACTANCE	0.05	0.04	0.04	0.04	0.06	0.06	0.05	0.05
X 2 NEGATIVE SEQUENCE	0.19	0.17	0.16	0.14	0.22	0.2	0.2	0.19
X 0 ZERO SEQUENCE	0.1	0.09	0.08	0.07	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s
T'do O.C. FIELD TIME CONST.	2.2s	2.2s	2.2s	2.2s	2.2s	2.2s	2.2s	2.2s
Ta ARMATURE TIME CONST.	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s	0.018s

WINDING 311 P.F.=0.8 A.R.K5E	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.14	2.83	2.63	2.34	3.53	3.3	3.1	2.92
X'd DIR. AXIS TRANSIENT	0.17	0.15	0.14	0.12	0.17	0.16	0.15	0.14
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.1	0.09	0.12	0.11	0.11	0.1
Xq QUAD. AXIS REACTANCE	2.45	2.21	2.05	1.82	2.82	2.64	2.48	2.33
X''q QUAD. AXIS SUBTRANSIENT	0.26	0.24	0.22	0.2	0.34	0.32	0.3	0.28
X L LEAKAGE REACTANCE	0.06	0.05	0.05	0.04	0.06	0.06	0.05	0.05
X 2 NEGATIVE SEQUENCE	0.18	0.16	0.15	0.13	0.23	0.22	0.2	0.19
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.06	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s
T'do O.C. FIELD TIME CONST.	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s
Ta ARMATURE TIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s

WINDING 311 P.F.=0.8 A.R.K5ES	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.14	2.83	2.63	2.34	3.53	3.3	3.1	2.92
X'd DIR. AXIS TRANSIENT	0.17	0.15	0.14	0.12	0.17	0.16	0.15	0.14
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.1	0.09	0.12	0.11	0.11	0.1
Xq QUAD. AXIS REACTANCE	2.45	2.21	2.05	1.82	2.82	2.64	2.48	2.33
X''q QUAD. AXIS SUBTRANSIENT	0.26	0.24	0.22	0.2	0.34	0.32	0.3	0.28
X L LEAKAGE REACTANCE	0.06	0.05	0.05	0.04	0.06	0.06	0.05	0.05
X 2 NEGATIVE SEQUENCE	0.18	0.16	0.15	0.13	0.23	0.22	0.2	0.19
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.06	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s
T'do O.C. FIELD TIME CONST.	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s
Ta ARMATURE TIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s

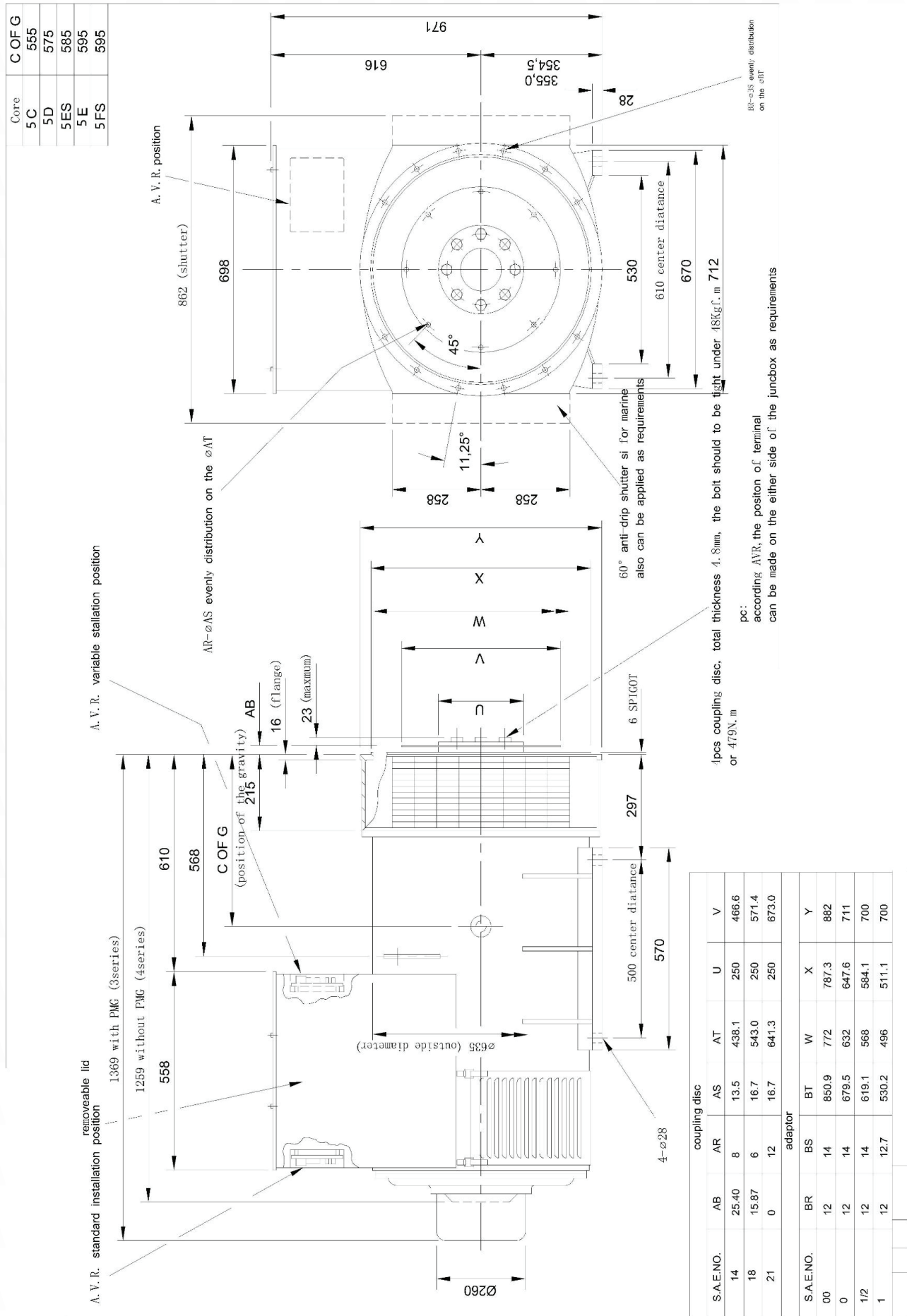
Elektriksel Veri

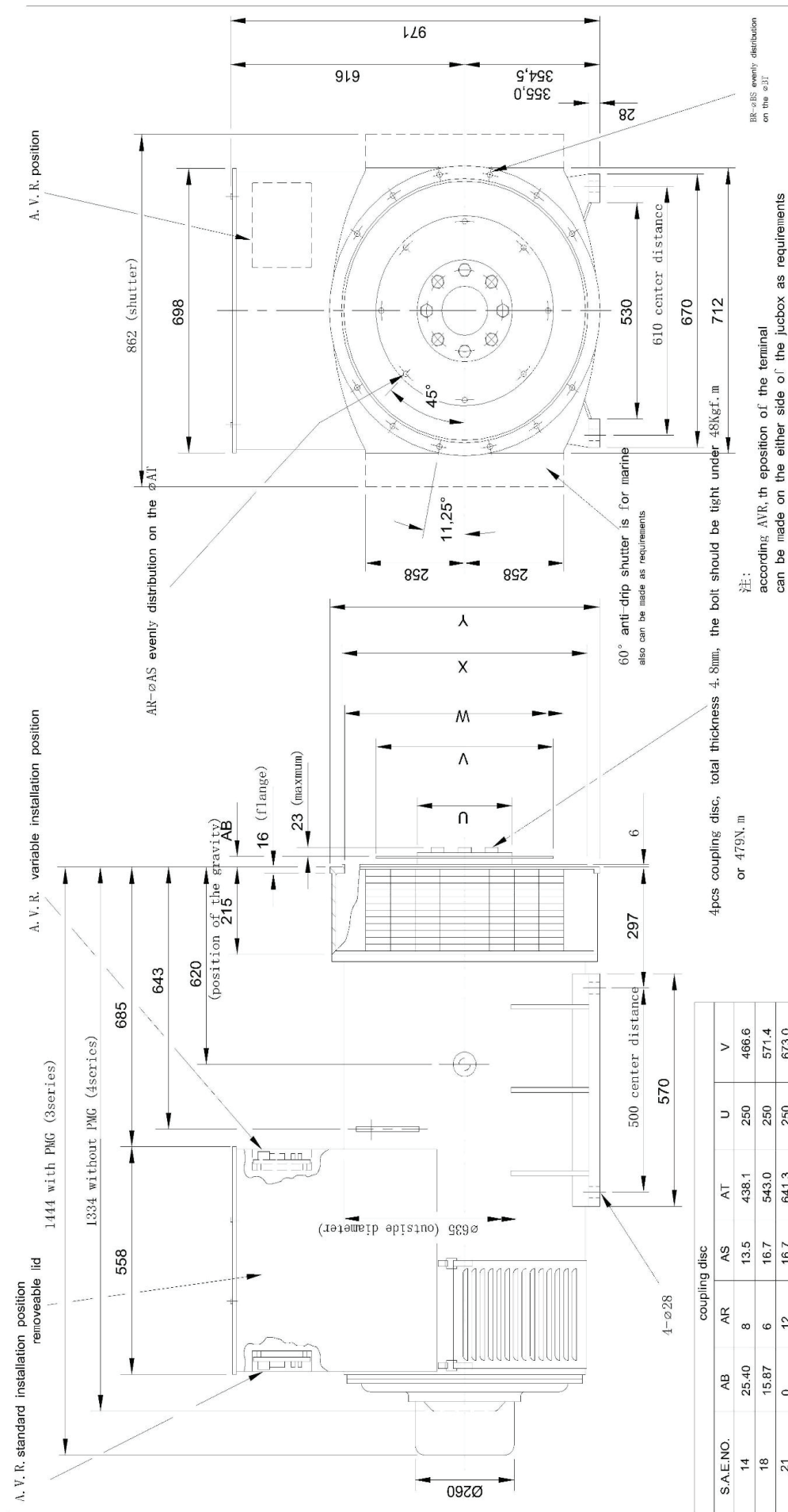
WINDING 311 P.F.=0.8 A.R.K5F	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.9	2.62	2.43	2.1	3.33	3.13	2.95	2.8
X'd DIR. AXIS TRANSIENT	0.16	0.14	0.13	0.11	0.16	0.15	0.14	0.13
X''d DIR. AXIS SUBTRANSIENT	0.11	0.1	0.09	0.08	0.11	0.1	0.1	0.09
Xq QUAD. AXIS REACTANCE	2.42	2.19	2.03	1.75	2.66	2.5	2.36	2.23
X''q QUAD. AXIS SUBTRANSIENT	0.25	0.23	0.21	0.18	0.31	0.29	0.27	0.26
X L LEAKAGE REACTANCE	0.05	0.04	0.04	0.03	0.05	0.05	0.04	0.04
X 2 NEGATIVE SEQUENCE	0.18	0.16	0.15	0.13	0.21	0.2	0.19	0.18
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.06	0.09	0.08	0.08	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s
T'do O.C. FIELD TIME CONST.	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s
Ta ARMATURE TIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s

Power Factor=0.8

WINDING 311 P.F.=0.8 A.R.K5F5	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.14	2.83	2.63	2.34	3.53	3.3	3.1	2.92
X'd DIR. AXIS TRANSIENT	0.17	0.15	0.14	0.12	0.17	0.16	0.15	0.14
X''d DIR. AXIS SUBTRANSIENT	0.12	0.11	0.1	0.09	0.12	0.11	0.11	0.1
Xq QUAD. AXIS REACTANCE	2.45	2.21	2.05	1.82	2.82	2.64	2.48	2.33
X''q QUAD. AXIS SUBTRANSIENT	0.26	0.24	0.22	0.2	0.34	0.32	0.3	0.28
X L LEAKAGE REACTANCE	0.06	0.05	0.05	0.04	0.06	0.06	0.05	0.05
X 2 NEGATIVE SEQUENCE	0.18	0.16	0.15	0.13	0.23	0.22	0.2	0.19
X 0 ZERO SEQUENCE	0.08	0.08	0.07	0.06	0.1	0.09	0.09	0.08
T'd TRANSIENT TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s
T''d SUB-TRANSTIME CONST.	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s	0.012s
T'do O.C. FIELD TIME CONST.	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s	2.5s
Ta ARMATURE TIME CONST.	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s	0.019s

Boyutlar - Tek Yatak





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DATA SHEET - A.R.K 6

TEKNİK ÖZELLİKLER VE OPSİYONLAR

Standartlar

- ARK serisi alternatörler uluslararası standart ve şartnamelerin birçoğuna uygunluk gösterir. Bunlar:
 - IEC60034, GB755, BS5000, VDE0530, NEMA, MG122,C22.2-100, CSA, AS1359 vb.
- ARK serisi alternatörler ISO9001 kalite sistemi sertifikalıdır.
- ARK serisi alternatörler CE işaretli jeneratör setlerinde kullanılabilir.
- Talep edilmesi durumunda diğer standartlara uygun imalat imkanı vardır.

Elektriksel Karakteristikler

- Yalıtım ve Emrenye
Tüm sargı bileşenleri jeneratör uygulamalarında karşılaşılan sert ortamlara karşı koruma sağlamak üzere özel tasarlanmış malzeme ve proses ile emrenye edilmiştir.
- 3 faz sargısından gelen 12 uç terminallere taşınarak farklı bağlantı şekilleri mümkün kılınmaktadır.
- 2/3 sarım adımı (pitch) doğrusal olmayan yüklerin sorunsuz beslenmesi açısından şu anda mevcut en optimum dizayn olarak üçüncü derece gerilim harmoniklerine (3., 9.,15...) mani olur.
- Bastırma derecesi
- Radyo parazitleri
- Yüksek verim ve yol verme kabiliyeti

İkaz ve Gerilim Düzenleme (Regülasyon) Sistemleri

MODEL	16 series	18 series	22 series	27 series	4 series	5 series	6 series	7 series
AVR								
SX460	Standart	Standart	Standart	Standart				
AS440(parallel optional)	Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel				
SX440(parallel optional)			Opsiyonel	Opsiyonel	Standart	Standart		
MX341(with PMG)			Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel		
MX321(with PMG)							Standart	Standart

Kendinden ikazlı sistem sayesinde ana stator Otomatik Gerilim Düzenleyici (AVR- Automatic Voltage Regulator) üzerinden ikaz statorunu besler. Yüksek verimli AVR gerilimin ikaz rotor çıkışı tam dalga köprü doğrultucu üzerinden ana rotoru besler.

- Çelik yapı
- Döküm alüminyumdan ön ve arka kapaklar
- Çalışma esnasındaki titreşimi önemli ölçüde azaltan rijit imalat.
- Tüm rotorlar BS6861'e uygun olarak dinamik balanslıdır.
- Bakımsız, ömür boyu sızdırmaz rulman yatak
- %120 aşırı hız dayanım
- Standart Özellikler
- Opsiyonlar
 - Giriş-çıkış filtreleri, %5 güç düşümüyle
 - Giriş-çıkış filtreleri, %10 güç düşümüyle (IP44)
 - Yoğunlaşma önleyici ısıtıcı
 - Stator sargıları ve yataklar için aşırı ısınma koruması
 - Merkez yüksekliği ihtiyaca göre ayarlanabilir.

Uygulama

Primer/yedek güç sistemleri, kiralama, telekom, mobil elektrik santralleri, aydınlatma kuleleri, demir yolları, soğutucular.

Kalite Güvence

ARK Serisi alternatörler ISO9001 kalite güvence sistemi kapsamında uygulanan üretim prosedürlerine uygun olarak imal edilmektedirler.

Not: Sürekli ürün gelişimine bağlı olarak ürün özelliklerinde haber vermeden değişiklik yapılabilmekte olduğundan, burada verilen bilgiler bağlayıcı değildir.

Doğrultucu, kısa devre voltaj yükselmelerinden veya faz uyumsuzluğundan aşırı gerilim baskılayıcı tarafından korunur.

GENEL BİLGİLER

İZOLASYON SİSTEMİ	H	KONTROL SİSTEMİ	KENDİNDEN UYARMALI
ANMA GÜÇ FAKTÖRÜ	0.8	YÜKSEKLİK	1000m
KORUMA	IP23	AŞIRI HIZ	2250 Devir/Dakika
STATOR SARGISI	EŞZAMANLI ÇİFT KATMAN	DALGA FORM SAPMASI	
ADIM	2/3	YÜKSÜZ < %1.5 SAPMA OLMAYAN DENGELENMİŞ LINEAR YÜK	
SARGI UÇLARI	12	< %5.0	

TELEFON PARAZİTİ	THF<%250HZ		THF<%2 60HZ		
UYARTIM SİSTEMİ	SX460	SX440	AS440	MX341	MX321
VOLTAJ REGÜLASYON ORANI	%±1.5	±%1.0	±%1.0	±%1.0	±%0.5
DÜŞÜK VOLTAJ KORUMASI	Standart	Standart	Standart	Standart	Standart
KISA DEVRE ELEKTRİK KABİLİYETİ				%300:10S	%300:10S
PARALEL OPERASYON		Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel

POWER - 1500 RPM

KVA/KW - Power Factor = 0.8

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50HZ	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel Star (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	A.R.K6B kVA	651	687	687	623	710	750	750	680	730	775	775	700	745	790	790	715
	kW	521	550	550	498	568	600	600	544	584	620	620	560	596	632	632	572
	Efficiency (%)	93.6	93.6	93.8	94.2	93.2	93.3	93.5	94	93.1	93.1	93.3	94	93	93	93.3	93.9
	A.R.K6C kVA	697	733	733	664	760	800	800	725	785	825	825	745	800	840	840	760
	kW	558	586	586	531	608	640	640	580	628	660	660	596	640	672	672	608
	Efficiency (%)	93.9	94	94.1	94.5	93.6	93.6	93.8	94.3	93.4	93.5	93.7	94.3	93.3	93.4	93.6	94.2
	A.R.K6D kVA	830	860	830	800	910	940	910	875	960	980	960	920	1000	1010	1000	960
	kW	664	688	664	640	728	752	728	700	768	784	768	736	800	808	800	768
	Efficiency (%)	95.2	95.3	95.4	95.6	94.9	95	95.2	95.4	94.7	94.8	95.1	95.3	94.5	94.7	94.9	95.2
	A.R.K6E kVA	900	927	900	900	1000	1030	1000	1000	1060	1070	1060	1060	1100	1110	1100	1100
	kW	720	742	720	720	800	824	800	800	848	856	848	848	880	888	880	880
	Efficiency (%)	95.3	95.4	95.5	95.6	95	95.1	95.3	95.4	94.7	94.9	95.1	95.3	94.6	94.8	95	95.2
	A.R.K6F kVA	1000	1010	1000	1000	1110	1130	1110	1110	1180	1190	1180	1180	1220	1230	1220	1220
	kW	800	814	800	800	888	904	888	888	944	952	944	944	976	984	976	976
	Efficiency (%)	95.6	95.7	95.8	95.9	95.4	95.5	95.6	95.7	95.2	95.3	95.5	95.6	95.1	95.1	95.4	95.5
	A.R.K6G kVA	1091	1146	1146	1040	1190	1250	1250	1135	1225	1288	1288	1170	1250	1313	1313	1190
	kW	873	917	917	832	952	1000	1000	908	980	1030	1030	936	1000	1050	1050	952
	Efficiency (%)	95.1	95.1	95.1	95.3	94.9	94.9	95	95.2	94.8	94.8	94.9	95.2	94.7	94.7	94.8	95.2

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
60HZ	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel Star (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Series Delta (V)	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	A.R.K6B kVA	742	784	820	860	810	855	895	938	840	889	929	970	849	898	939	980
	kW	594	627	656	688	648	684	716	750	672	711	743	776	679	718	751	784
	Efficiency (%)	93.3	93.5	93.6	93.6	93	93.1	93.2	93.3	92.8	93	93.1	93.1	92.8	92.9	93	93.1
	A.R.K6C kVA	790	840	787	917	865	916	958	1000	897	948	992	1035	905	958	1000	1045
	kW	632	672	702	734	692	733	766	800	718	758	794	828	724	766	800	836
	Efficiency (%)	93.7	93.8	93.9	93.9	93.4	93.5	93.6	93.6	93.2	93.4	93.4	93.5	93.2	93.3	93.4	93.5
	A.R.K6D kVA	913	963	1000	1025	1025	1063	1075	1125	1088	1125	1138	1188	1125	1163	1175	1219
	kW	730	770	800	820	820	850	860	900	870	900	910	950	900	930	940	975
	Efficiency (%)	95.2	95.3	95.3	95.4	94.9	95.1	95.2	95.2	94.8	94.9	95	95.1	94.6	94.8	94.9	95
	A.R.K6E kVA	1063	1100	1150	1188	1150	1200	1250	1300	1206	1250	1300	1350	1250	1300	1350	1400
	kW	850	880	920	950	920	960	1000	1040	965	1000	1040	1080	1000	1040	1080	1120
	Efficiency (%)	95.2	95.3	95.3	95.4	95	95.1	95.1	95.2	94.8	95	95	95.1	94.7	94.8	94.9	94.9
	A.R.K6F kVA	1188	1238	1275	1313	1275	1338	1388	1438	1350	1413	1468	1525	1400	1463	1519	1575
	kW	950	990	1020	1050	1020	1070	1110	1150	1080	1130	1175	1220	1120	1170	1215	1260
	Efficiency (%)	95.6	95.6	95.7	95.7	95.4	95.5	95.5	95.5	95.3	95.3	95.4	95.4	95.1	95.2	95.3	95.3
	A.R.K6G kVA	1200	1270	1328	1386	1310	1386	1449	1513	1354	1432	1497	1563	1562	1562	1562	1580
	kW	960	1016	1062	1109	1048	1109	1159	1210	1083	1146	1198	1250	1250	1250	1250	1264
	Efficiency (%)	95.1	95.1	95.1	95.1	94.9	94.9	95	95	94.8	94.9	94.9	94.9	94.8	94.8	94.9	94.9

Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K6B	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.73	2.6	2.42	1.95	3.12	2.94	2.82	2.71
X'd DIR. AXIS TRANSIENT	0.17	0.16	0.15	0.12	0.2	0.18	0.18	0.17
X''d DIR. AXIS SUBTRANSIENT	0.12	0.12	0.11	0.09	0.14	0.13	0.13	0.12
Xq QUAD. AXIS REACTANCE	2.27	2.16	2.01	1.62	2.59	2.44	2.34	2.25
X''q QUAD. AXIS SUBTRANSIENT	0.28	0.27	0.25	0.2	0.32	0.3	0.29	0.28
X L LEAKAGE REACTANCE	0.1	0.09	0.09	0.07	0.11	0.11	0.1	0.1
X 2 NEGATIVE SEQUENCE	0.2	0.2	0.18	0.15	0.23	0.22	0.21	0.2
X 0 ZERO SEQUENCE	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.03
T'd TRANSIENT TIME CONST.	0.106s	0.106s	0.106s	0.106s	0.106s	0.106s	0.106s	0.106s
T''d SUB-TRANSTIME CONST.	0.013s	0.013s	0.013s	0.013s	0.013s	0.013s	0.013s	0.013s
T'do O.C. FIELD TIME CONST.	2.91s	2.91s	2.91s	2.91s	2.91s	2.91s	2.91s	2.91s
Ta ARMATURE TIME CONST.	0.035s	0.035s	0.035s	0.035s	0.035s	0.035s	0.035s	0.035s

Power Factor=0.8

WINDING 311 P.F.=0.8 A.R.K6C	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.69	2.56	2.38	1.92	3.07	2.91	2.79	2.67
X'd DIR. AXIS TRANSIENT	0.15	0.14	0.13	0.11	0.17	0.16	0.16	0.15
X''d DIR. AXIS SUBTRANSIENT	0.11	0.1	0.1	0.08	0.12	0.12	0.11	0.11
Xq QUAD. AXIS REACTANCE	2.24	2.13	1.98	1.6	2.56	2.42	2.32	2.22
X''q QUAD. AXIS SUBTRANSIENT	0.27	0.25	0.24	0.19	0.3	0.28	0.27	0.26
X L LEAKAGE REACTANCE	0.08	0.08	0.07	0.06	0.09	0.09	0.08	0.08
X 2 NEGATIVE SEQUENCE	0.19	0.18	0.17	0.13	0.22	0.21	0.2	0.19
X 0 ZERO SEQUENCE	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03
T'd TRANSIENT TIME CONST.	0.099s	0.099s	0.099s	0.099s	0.099s	0.099s	0.099s	0.099s
T''d SUB-TRANSTIME CONST.	0.013s	0.013s	0.013s	0.013s	0.013s	0.013s	0.013s	0.013s
T'do O.C. FIELD TIME CONST.	2.95s	2.95s	2.95s	2.95s	2.95s	2.95s	2.95s	2.95s
Ta ARMATURE TIME CONST.	0.034s	0.034s	0.034s	0.034s	0.034s	0.034s	0.034s	0.034s

WINDING 311 P.F.=0.8 A.R.K6D	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.99	2.7	2.51	2.15	3.37	3.13	2.89	2.78
X'd DIR. AXIS TRANSIENT	0.25	0.23	0.21	0.18	0.29	0.27	0.25	0.24
X''d DIR. AXIS SUBTRANSIENT	0.18	0.16	0.15	0.13	0.19	0.18	0.17	0.16
Xq QUAD. AXIS REACTANCE	1.77	1.6	1.49	1.27	2	1.86	1.72	1.65
X''q QUAD. AXIS SUBTRANSIENT	0.19	0.17	0.16	0.14	0.22	0.2	0.19	0.18
X L LEAKAGE REACTANCE	0.09	0.08	0.07	0.06	0.2	0.09	0.08	0.08
X 2 NEGATIVE SEQUENCE	0.2	0.18	0.17	0.14	0.23	0.21	0.2	0.19
X 0 ZERO SEQUENCE	0.03	0.02	0.02	0.02	0.03	0.03	0.02	0.02
T'd TRANSIENT TIME CONST.	0.185s	0.185s	0.185s	0.185s	0.185s	0.185s	0.185s	0.185s
T''d SUB-TRANSTIME CONST.	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s
T'do O.C. FIELD TIME CONST.	2.44s	2.44s	2.44s	2.44s	2.44s	2.44s	2.44s	2.44s
Ta ARMATURE TIME CONST.	0.04s	0.04s	0.04s	0.04s	0.04s	0.04s	0.04s	0.04s

WINDING 311 P.F.=0.8 A.R.K6E	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.02	2.73	2.54	2.26	3.49	3.25	3.1	2.96
X'd DIR. AXIS TRANSIENT	0.24	0.22	0.2	0.18	0.28	0.26	0.25	0.24
X''d DIR. AXIS SUBTRANSIENT	0.17	0.15	0.14	0.12	0.19	0.18	0.17	0.16
Xq QUAD. AXIS REACTANCE	1.78	1.61	1.5	1.33	2.05	1.91	1.82	1.74
X''q QUAD. AXIS SUBTRANSIENT	0.21	0.19	0.18	0.16	0.25	0.23	0.22	0.21
X L LEAKAGE REACTANCE	0.09	0.08	0.08	0.07	0.1	0.1	0.09	0.09
X 2 NEGATIVE SEQUENCE	0.21	0.19	0.18	0.16	0.25	0.23	0.22	0.21
X 0 ZERO SEQUENCE	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.03
T'd TRANSIENT TIME CONST.	0.185s	0.185s	0.185s	0.185s	0.185s	0.185s	0.185s	0.185s
T''d SUB-TRANSTIME CONST.	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s
T'do O.C. FIELD TIME CONST.	3.03s	3.03s	3.03s	3.03s	3.03s	3.03s	3.03s	3.03s
Ta ARMATURE TIME CONST.	0.046s	0.046s	0.046s	0.046s	0.046s	0.046s	0.046s	0.046s

Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K6F	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.78	2.51	2.33	2.07	3.2	3	2.85	2.71
X'd DIR. AXIS TRANSIENT	0.22	0.2	0.19	0.17	0.26	0.24	0.23	0.22
X''d DIR. AXIS SUBTRANSIENT	0.16	0.14	0.13	0.12	0.18	0.17	0.16	0.15
Xq QUAD. AXIS REACTANCE	1.63	1.47	1.37	1.21	1.88	1.76	1.67	1.59
X''q QUAD. AXIS SUBTRANSIENT	0.23	0.21	0.2	1.7	0.27	0.25	0.24	0.23
X L LEAKAGE REACTANCE	0.08	0.07	0.06	0.06	0.09	0.08	0.08	0.07
X 2 NEGATIVE SEQUENCE	0.22	0.2	0.19	0.17	0.26	0.24	0.23	0.22
X 0 ZERO SEQUENCE	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.03
T'd TRANSIENT TIME CONST.	0.185s	0.185s	0.185s	0.185s	0.185s	0.185s	0.185s	0.185s
T''d SUB-TRANSTIME CONST.	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s	0.025s
T'do O.C. FIELD TIME CONST.	3.4s	3.4s	3.4s	3.4s	3.4s	3.4s	3.4s	3.4s
Ta ARMATURE TIME CONST.	0.049s	0.049s	0.049s	0.049s	0.049s	0.049s	0.049s	0.049s

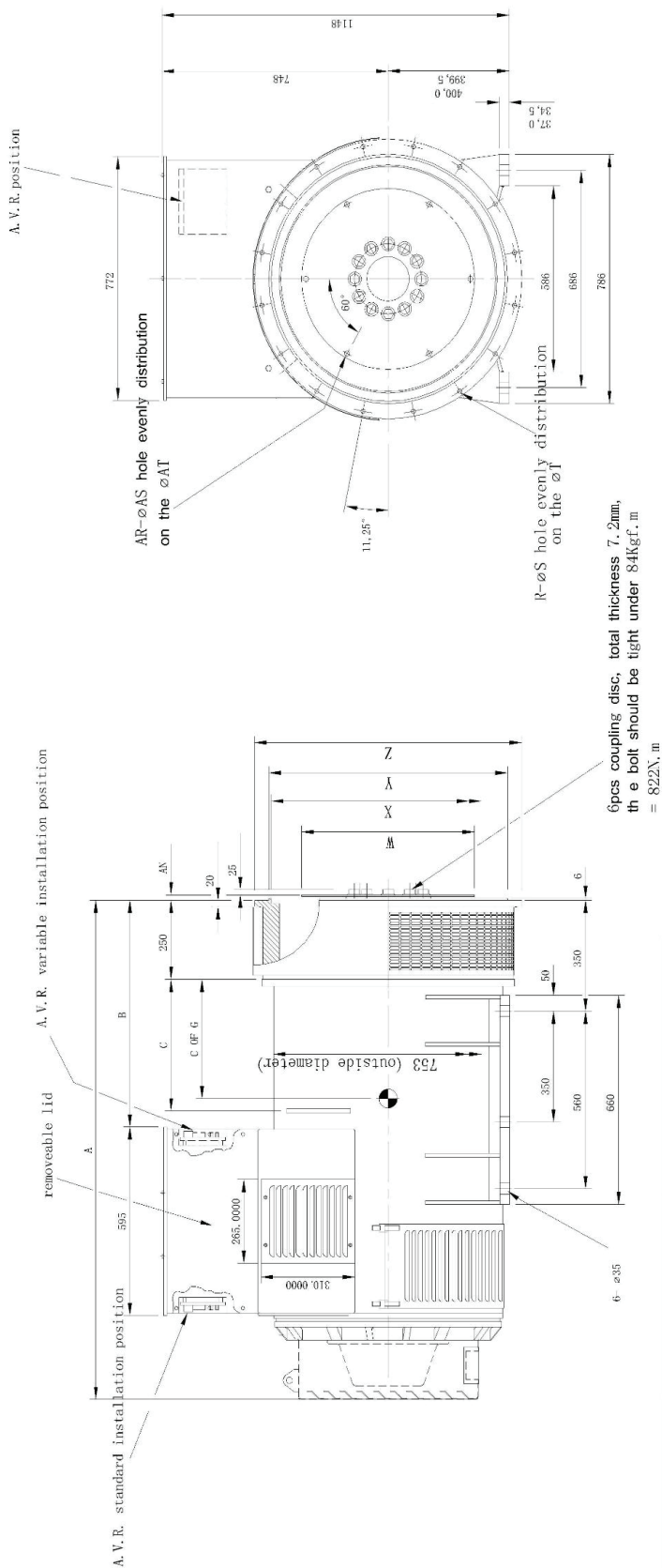
Power Factor=0.8

WINDING 311 P.F.=0.8 A.R.K6G	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.16	2.05	1.9	1.54	2.47	2.33	2.23	2.14
X'd DIR. AXIS TRANSIENT	0.12	0.11	0.1	0.08	0.13	0.13	0.12	0.12
X''d DIR. AXIS SUBTRANSIENT	0.09	0.08	0.08	0.06	0.1	0.09	0.09	0.08
Xq QUAD. AXIS REACTANCE	1.79	1.7	1.58	1.28	2.04	1.93	1.85	1.77
X''q QUAD. AXIS SUBTRANSIENT	0.21	0.2	0.18	0.15	0.23	0.22	0.21	0.2
X L LEAKAGE REACTANCE	0.07	0.06	0.06	0.05	0.07	0.07	0.07	0.07
X 2 NEGATIVE SEQUENCE	0.15	0.14	0.13	0.11	0.17	0.16	0.15	0.15
X 0 ZERO SEQUENCE	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
T'd TRANSIENT TIME CONST.	0.115s	0.115s	0.115s	0.115s	0.115s	0.115s	0.115s	0.115s
T''d SUB-TRANSTIME CONST.	0.015s	0.015s	0.015s	0.015s	0.015s	0.015s	0.015s	0.015s
T'do O.C. FIELD TIME CONST.	3.6s	3.6s	3.6s	3.6s	3.6s	3.6s	3.6s	3.6s
Ta ARMATURE TIME CONST.	0.038s	0.038s	0.038s	0.038s	0.038s	0.038s	0.038s	0.038s

Boyutlar - Tek Yatak

adaptor	X	Y	Z	N	R	S	T	coupling disc	W	AN	AR	AS	AT
SAE00	768	787.3	883	16	12	14	851	SAE24	733.3	0	12	20.7	692
SAE0	621	647.6	810	16	16	14	679.5	SAE21	673.02	0	12	16.7	641.3
SAE0.5	568	584.1	810	12	12	14	619	SAE18	571.42	15.87	6	16.7	543.0
								SAE14	466.61	25.10	8	13.5	438.1

model	A	B	C	KVA	C OF G
6B				750	587
6C				800	591
6D	1578	726	405	910	597
6E				1000	607
6F				1125	625
6G	1679	826	464	1250	735



DATA SHEET - A.R.K 7

TEKNİK ÖZELLİKLER VE OPSİYONLAR

Standartlar

- ARK serisi alternatörler uluslararası standart ve şartnamelerin birçoğuna uygunluk gösterir. Bunlar:
-IEC60034, GB755, BS5000, VDE0530, NEMA, MG122,C22.2-100, CSA, AS1359 vb.
- ARK serisi alternatörler ISO9001 kalite sistemi sertifikalıdır.
- ARK serisi alternatörler CE işaretli jeneratör setlerinde kullanılabilir.
- Talep edilmesi durumunda diğer standartlara uygun imalat imkanı vardır.

Elektriksel Karakteristikler

- Yalıtım ve Emrenye
Tüm sargı bileşenleri jeneratör uygulamalarında karşılaşılan sert ortamlara karşı koruma sağlamak üzere özel tasarlanmış malzeme ve proses ile emrenye edilmiştir.
- 3 faz sargısından gelen 12 uç terminallere taşınarak farklı bağlantı şekilleri mümkün kılınmaktadır.
- 2/3 sarım adımı (pitch) doğrusal olmayan yüklerin sorunsuz beslenmesi açısından şu anda mevcut en optimum dizayn olarak üçüncü derece gerilim harmoniklerine (3., 9.,15...) mani olur.
- Bastırma derecesi
- Radyo parazitleri
- Yüksek verim ve yol verme kabiliyeti

İkaz ve Gerilim Düzenleme (Regülasyon) Sistemleri

MODEL	16 series	18 series	22 series	27 series	4 series	5 series	6 series	7 series
AVR								
SX460	Standart	Standart	Standart	Standart				
AS440(paralel optional)	Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel				
SX440(paralel optional)			Opsiyonel	Opsiyonel	Standart	Standart		
MX341(with PMG)			Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel		
MX321(with PMG)							Standart	Standart

Kendinden ikazlı sistem sayesinde ana stator Otomatik Gerilim Düzenleyici (AVR- Automatic Voltage Regulator) üzerinden ikaz statorunu besler. Yüksek verimli AVR gerilimin ikaz rotor çıkışı tam dalga köprü doğrultucu üzerinden ana rotoru besler.

- Çelik yapı
- Döküm alüminyumdan ön ve arka kapaklar
- Çalışma esnasındaki titreşimi önemli ölçüde azaltan rijit imalat.
- Tüm rotorlar BS6861'e uygun olarak dinamik balanslıdır.
- Bakımsız, ömür boyu sızdırmaz rulman yatak
- %120 aşırı hız dayanım
- Standart Özellikler
- Opsiyonlar
 - Giriş-çıkış filtreleri, %5 güç düşümüyle
 - Giriş-çıkış filtreleri, %10 güç düşümüyle (IP44)
 - Yoğunlaşma önleyici ısıtıcı
 - Stator sargıları ve yataklar için aşırı ısınma koruması
 - Merkez yüksekliği ihtiyaca göre ayarlanabilir.

Uygulama

Primer/yedek güç sistemleri, kiralama, telekom, mobil elektrik santralleri, aydınlatma kuleleri, demir yolları, soğutucular.

Kalite Güvence

ARK Serisi alternatörler ISO9001 kalite güvence sistemi kapsamında uygulanan üretim prosedürlerine uygun olarak imal edilmektedirler.

Not: Sürekli ürün gelişimine bağlı olarak ürün özelliklerinde haber vermeden değişiklik yapılabilmekte olduğundan, burada verilen bilgiler bağlayıcı değildir.

GENEL BİLGİLER

İZOLASYON SİSTEMİ	H	KONTROL SİSTEMİ	KENDİNDEN UYARMALI
ANMA GÜÇ FAKTÖRÜ	0.8	YÜKSEKLİK	1000m
KORUMA	IP23	AŞIRI HIZ	2250 Devir/Dakika
STATOR SARGISI	EŞZAMANLI ÇİFT KATMAN	DALGA FORM SAPMASI	
ADIM	2/3	YÜKSÜZ < %1.5 SAPMA OLMAYAN DENGELENMİŞ LINEAR YÜK	
SARGI UÇLARI	12	< %5.0	

TELEFON PARAZİTİ	THF<%250HZ		THF<%2 60HZ		
UYARTIM SİSTEMİ	SX460	SX440	AS440	MX341	MX321
VOLTAJ REGÜLASYON ORANI	%±1.5	±%1.0	±%1.0	±%1.0	±%0.5
DÜŞÜK VOLTAJ KORUMASI	Standart	Standart	Standart	Standart	Standart
KISA DEVRE ELEKTRİK KABİLİYETİ				%300:10S	%300:10S
PARALEL OPERASYON		Opsiyonel	Opsiyonel	Opsiyonel	Opsiyonel

POWER - 1500 RPM

KVA/KW - Power Factor = 0.8

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50HZ	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel Star (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	XN7E kVA	1215	1215	1215	1215	1320	1320	1320	1320	1400	1400	1400	1400	1440	1440	1440	1440
	kW	972	972	972	972	1056	1056	1056	1056	1120	1120	1120	1120	1152	1152	1152	1152
	Efficiency (%)	95.7	95.8	95.9	96.1	95.4	95.6	95.7	95.9	95.2	95.4	95.6	95.8	95.1	95.3	95.5	95.7
	XN7F kVA	1375	1375	1375	1330	1500	1500	1500	1460	1580	1580	1580	1580	1630	1630	1630	1590
	kW	1100	1100	1100	1064	1200	1200	1200	1168	1264	1264	1264	1264	1304	1304	1304	1272
	Efficiency (%)	96	96.2	96.3	96.4	95.8	96	96.1	96.3	95.6	95.8	96	96.1	95.5	95.7	95.9	96.1
	XN7F5 kVA	1500	1540	1540	1505	1615	1650	1650	1620	1675	1720	1720	1685	1715	1770	1770	1735
	kW	1200	1232	1232	1204	1292	1320	1320	1296	1340	1376	1376	1348	1372	1416	1416	1388
	Efficiency (%)	96.2	96.3	96.4	96.5	96.1	96.2	96.3	96.4	96	96.1	96.2	96.3	95.9	96	96.1	96.3
	XN7G kVA	1675	1700	1675	1675	1800	1825	1800	1800	1860	1885	1860	1860	1930	1955	1930	1930
	kW	1340	1360	1340	1340	1440	1460	1440	1440	1488	1508	1488	1488	1544	1564	1544	1544
	Efficiency (%)	96.3	96.4	96.6	96.6	96.2	96.3	96.4	96.5	96.1	96.2	96.4	96.5	96	96.1	96.3	96.4
	XN7H kVA	1840	1840	1840	1840	2000	2000	2000	2000	2100	2100	2100	2100	2150	2150	2150	2150
	kW	1472	1472	1472	1472	1600	1600	1600	1600	1680	1680	1680	1680	1720	1720	1720	1720
	Efficiency (%)	96.6	96.7	96.8	96.9	96.4	96.6	96.7	96.8	96.3	96.5	96.6	96.7	96.3	96.4	96.5	96.6
	XN7J kVA	1906	1971	1971	1792	2080	2150	2150	1955	2180	2280	2280	2072	2280	2350	2350	2251
	kW	1525	1577	1577	1434	1664	1720	1720	1564	1744	1824	1824	1658	1824	1880	1880	1772
	Efficiency (%)	95.8	95.9	96	96.3	95.6	95.7	95.8	96.2	95.4	95.5	95.6	96.1	95.3	95.4	95.5	95.9

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
60HZ	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel Star (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Series Delta (V)	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	XN7E kVA	1375	1425	1436	1500	1500	1550	1588	1625	1588	1638	1675	1719	1650	1700	1738	1775
	kW	1100	1140	1170	1200	1200	1240	1270	1300	1270	1310	1340	1375	1320	1360	1390	1420
	Efficiency (%)	95.6	95.7	95.8	95.9	95.4	95.5	95.6	95.7	95.2	95.4	95.5	95.6	95.1	95.2	95.4	95.5
	XN7F kVA	1563	1625	1688	1750	1688	1775	1825	1875	1750	1875	1938	1988	1818	1925	2000	2063
	kW	1250	1300	1350	1400	1350	1420	1460	1500	1400	1500	1550	1590	1450	1540	1600	1650
	Efficiency (%)	95.9	96	96.1	96.2	95.8	95.9	96	96	95.7	95.7	95.8	95.9	95.6	95.7	95.7	95.8
	XN7F5 kVA	1690	1800	1840	1875	1815	1935	1975	2015	1890	2015	2055	2100	1940	2070	2115	2160
	kW	1352	1440	1472	1500	1452	1548	1580	1612	1512	1612	1644	1680	1552	1656	1692	1728
	Efficiency (%)	96.2	96.2	96.3	96.4	96.1	96.1	96.2	96.3	96	96	96.1	96.2	95.9	96	96.1	96.1
	XN7G kVA	1900	1988	2038	2100	2063	2163	2213	2281	2175	2281	2338	2413	2250	2344	2413	2500
	kW	1520	1590	1630	1680	1650	1730	1770	1825	1740	1825	1870	1930	1800	1875	1930	2000
	Efficiency (%)	96.3	96.4	96.5	96.5	96.2	96.2	96.3	96.4	96	96.1	96.2	96.2	95.9	96	96.1	96.2
	XN7H kVA	2080	2170	2300	2300	2250	2375	2500	2500	2340	2470	2600	2600	2430	2560	2700	2700
	kW	1664	1736	1840	1840	1800	1900	2000	2000	1872	1976	2080	2080	1944	2048	2160	2160
	Efficiency (%)	96.6	96.7	96.7	96.7	96.5	96.5	96.5	96.6	96.4	96.4	96.5	96.6	96.3	96.4	96.4	96.5
	XN7J kVA	2085	2206	2305	2406	2275	2406	2515	2625	2410	2549	2665	2781	2486	2630	2749	2869
	kW	1668	1765	1844	1925	1820	1925	2012	2100	1928	2039	2132	2225	1989	2104	2199	2295
	Efficiency (%)	95.8	95.9	95.9	96	95.6	95.7	95.7	95.8	95.4	95.5	95.6	95.6	95.3	95.4	95.5	95.5



Elektriksel Veri

WINDING 311 P.F.=0.8 A.R.K7E	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.08	2.78	2.58	2.3	3.55	3.28	3.08	2.89
X'd DIR. AXIS TRANSIENT	0.27	0.24	0.22	0.2	0.28	0.26	0.24	0.23
X''d DIR. AXIS SUBTRANSIENT	0.19	0.17	0.16	0.14	0.21	0.19	0.18	0.17
Xq QUAD. AXIS REACTANCE	2.27	2.05	1.9	1.69	2.63	2.43	2.28	2.14
X''q QUAD. AXIS SUBTRANSIENT	0.23	0.21	0.2	0.17	0.27	0.25	0.23	0.22
X L LEAKAGE REACTANCE	0.04	0.04	0.04	0.03	0.05	0.05	0.04	0.04
X 2 NEGATIVE SEQUENCE	0.22	0.2	0.19	0.17	0.26	0.24	0.22	0.21
X 0 ZERO SEQUENCE	0.03	0.03	0.03	0.02	0.04	0.03	0.03	0.03
T'd TRANSIENT TIME CONST.	0.29s	0.29s	0.29s	0.29s	0.29s	0.29s	0.29s	0.29s
T''d SUB-TRANSTIME CONST.	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s
T'do O.C. FIELD TIME CONST.	2.98s	2.98s	2.98s	2.98s	2.98s	2.98s	2.98s	2.98s
Ta ARMATURE TIME CONST.	0.05s	0.05s	0.05s	0.05s	0.05s	0.05s	0.05s	0.05s

Power Factor=0.8

WINDING 311 P.F.=0.8 A.R.K7F5	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.05	2.75	2.55	2.21	3.44	3.23	3.04	2.87
X'd DIR. AXIS TRANSIENT	0.25	0.23	0.21	0.19	0.26	0.25	0.23	0.22
X''d DIR. AXIS SUBTRANSIENT	0.18	0.16	0.15	0.13	0.19	0.18	0.17	0.16
Xq QUAD. AXIS REACTANCE	2.26	2.04	1.9	1.64	2.55	2.4	2.26	2.13
X''q QUAD. AXIS SUBTRANSIENT	0.28	0.25	0.23	0.2	0.29	0.27	0.25	0.24
X L LEAKAGE REACTANCE	0.06	0.05	0.05	0.04	0.07	0.07	0.06	0.06
X 2 NEGATIVE SEQUENCE	0.25	0.23	0.21	0.19	0.26	0.25	0.23	0.22
X 0 ZERO SEQUENCE	0.03	0.03	0.03	0.02	0.04	0.03	0.03	0.03
T'd TRANSIENT TIME CONST.	0.3s	0.3s	0.3s	0.3s	0.3s	0.3s	0.3s	0.3s
T''d SUB-TRANSTIME CONST.	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s
T'do O.C. FIELD TIME CONST.	3.16s	3.16s	3.16s	3.16s	3.16s	3.16s	3.16s	3.16s
Ta ARMATURE TIME CONST.	0.066s	0.066s	0.066s	0.066s	0.066s	0.066s	0.066s	0.066s

WINDING 311 P.F.=0.8 A.R.K7F	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.12	2.88	2.67	2.33	3.75	3.57	3.33	3.12
X'd DIR. AXIS TRANSIENT	0.19	0.18	0.16	0.14	0.23	0.22	0.2	0.19
X''d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	0.11	0.17	0.16	0.15	0.14
Xq QUAD. AXIS REACTANCE	2.01	1.85	1.72	1.5	2.41	2.3	2.15	2.01
X''q QUAD. AXIS SUBTRANSIENT	0.28	0.26	0.24	0.21	0.34	0.32	0.3	0.28
X L LEAKAGE REACTANCE	0.04	0.03	0.03	0.03	0.04	0.04	0.04	0.04
X 2 NEGATIVE SEQUENCE	0.2	0.18	0.17	0.15	0.24	0.23	0.21	0.2
X 0 ZERO SEQUENCE	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.02
T'd TRANSIENT TIME CONST.	0.137s	0.137s	0.137s	0.137s	0.137s	0.137s	0.137s	0.137s
T''d SUB-TRANSTIME CONST.	0.01s	0.01s	0.01s	0.01s	0.01s	0.01s	0.01s	0.01s
T'do O.C. FIELD TIME CONST.	2.25s	2.25s	2.25s	2.25s	2.25s	2.25s	2.25s	2.25s
Ta ARMATURE TIME CONST.	0.02s	0.02s	0.02s	0.02s	0.02s	0.02s	0.02s	0.02s

WINDING 311 P.F.=0.8 A.R.K7G	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.84	2.56	2.38	2.12	3.29	3.08	2.88	2.73
X'd DIR. AXIS TRANSIENT	0.23	0.21	0.2	0.17	0.25	0.24	0.22	0.21
X''d DIR. AXIS SUBTRANSIENT	0.17	0.15	0.14	0.12	0.19	0.18	0.17	0.16
Xq QUAD. AXIS REACTANCE	2.11	1.9	1.77	1.57	2.43	2.28	2.13	2.02
X''q QUAD. AXIS SUBTRANSIENT	0.31	0.28	0.26	0.23	0.35	0.33	0.31	0.29
X L LEAKAGE REACTANCE	0.08	0.07	0.07	0.06	0.08	0.08	0.07	0.07
X 2 NEGATIVE SEQUENCE	0.27	0.24	0.22	0.2	0.29	0.27	0.25	0.24
X 0 ZERO SEQUENCE	0.03	0.03	0.03	0.02	0.04	0.03	0.03	0.03
T'd TRANSIENT TIME CONST.	0.33s	0.33s	0.33s	0.33s	0.33s	0.33s	0.33s	0.33s
T''d SUB-TRANSTIME CONST.	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s
T'do O.C. FIELD TIME CONST.	3.41s	3.41s	3.41s	3.41s	3.41s	3.41s	3.41s	3.41s
Ta ARMATURE TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s

Elektriksel Veri

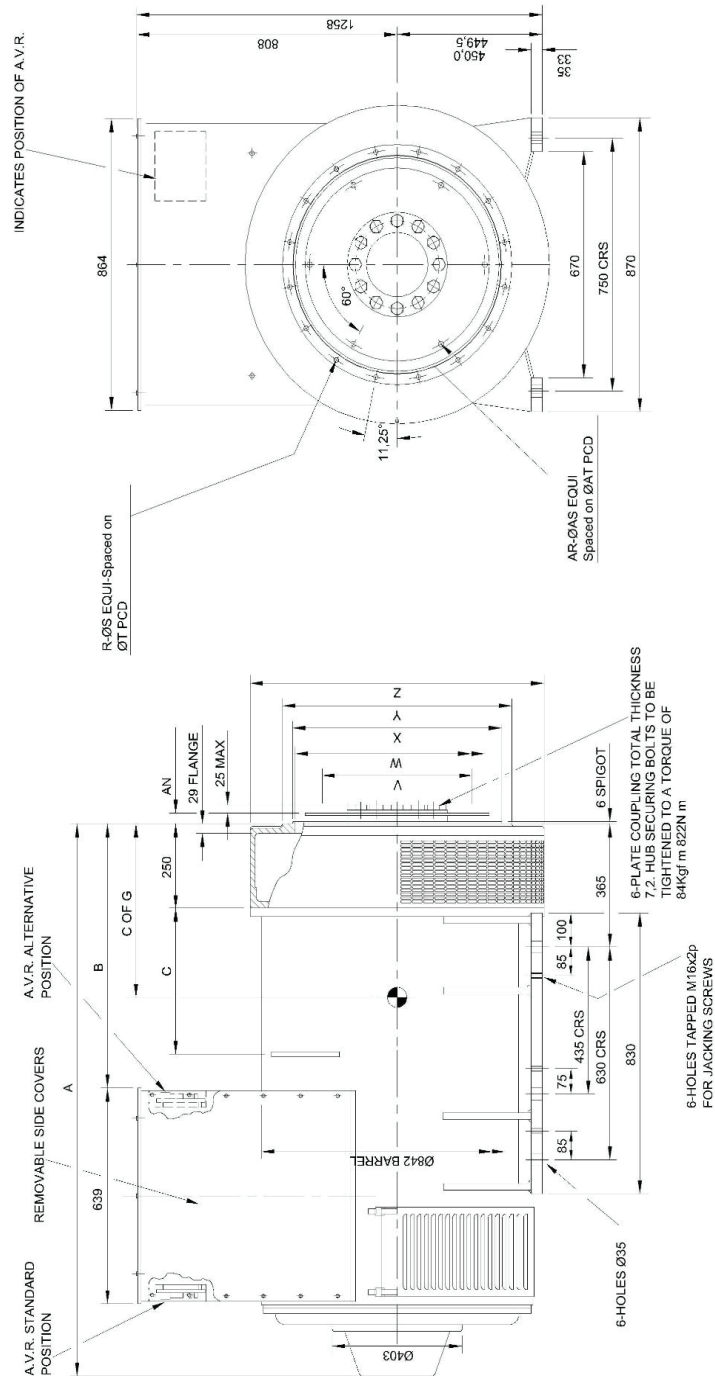
WINDING 311 P.F.=0.8 A.R.K7H	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	2.34	2.11	1.96	1.74	2.64	2.49	2.4	2.2
X'd DIR. AXIS TRANSIENT	0.19	0.17	0.16	0.14	0.22	0.2	0.2	0.18
X''d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	0.11	0.17	0.16	0.15	0.14
Xq QUAD. AXIS REACTANCE	1.73	1.56	1.45	1.29	1.95	1.84	1.77	1.63
X''q QUAD. AXIS SUBTRANSIENT	0.25	0.23	0.21	0.19	0.29	0.27	0.26	0.24
X L LEAKAGE REACTANCE	0.06	0.05	0.05	0.04	0.06	0.06	0.05	0.05
X 2 NEGATIVE SEQUENCE	0.21	0.19	0.18	0.16	0.24	0.23	0.22	0.2
X 0 ZERO SEQUENCE	0.03	0.03	0.03	0.02	0.04	0.03	0.03	0.03
T'd TRANSIENT TIME CONST.	0.33s	0.33s	0.33s	0.33s	0.33s	0.33s	0.33s	0.33s
T''d SUB-TRANSTIME CONST.	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s	0.03s
T'do O.C. FIELD TIME CONST.	3.49s	3.49s	3.49s	3.49s	3.49s	3.49s	3.49s	3.49s
Ta ARMATURE TIME CONST.	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s	0.08s

Power Factor=0.8

WINDING 311 P.F.=0.8 A.R.K7J	50HZ				60HZ			
Series Star (V)	380	400	415	440	416	440	460	480
Parallel Star (V)	190	200	208	220	208	220	230	240
Series Delta (V)	220	230	240	254	240	254	266	277
Xd DIR. AXIS SYNCHRONOUS	3.6	3.36	3.12	2.53	3.95	3.73	3.57	3.42
X'd DIR. AXIS TRANSIENT	0.2	0.19	0.18	0.14	0.22	0.21	0.2	0.19
X''d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	0.1	0.16	0.15	0.15	0.14
Xq QUAD. AXIS REACTANCE	2.33	2.17	2.02	1.63	2.55	2.41	2.31	2.21
X''q QUAD. AXIS SUBTRANSIENT	0.26	0.24	0.22	0.18	0.28	0.26	0.25	0.24
X L LEAKAGE REACTANCE	0.08	0.07	0.07	0.05	0.09	0.09	0.08	0.08
X 2 NEGATIVE SEQUENCE	0.21	0.2	0.19	0.15	0.23	0.22	0.21	0.2
X 0 ZERO SEQUENCE	0.03	0.03	0.03	0.02	0.04	0.04	0.04	0.04
T'd TRANSIENT TIME CONST.	0.18s	0.18s	0.18s	0.18s	0.18s	0.18s	0.18s	0.18s
T''d SUB-TRANSTIME CONST.	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s	0.014s
T'do O.C. FIELD TIME CONST.	3.4s	3.4s	3.4s	3.4s	3.4s	3.4s	3.4s	3.4s
Ta ARMATURE TIME CONST.	0.063s	0.063s	0.063s	0.063s	0.063s	0.063s	0.063s	0.063s

Boyutlar - Tek Yatak

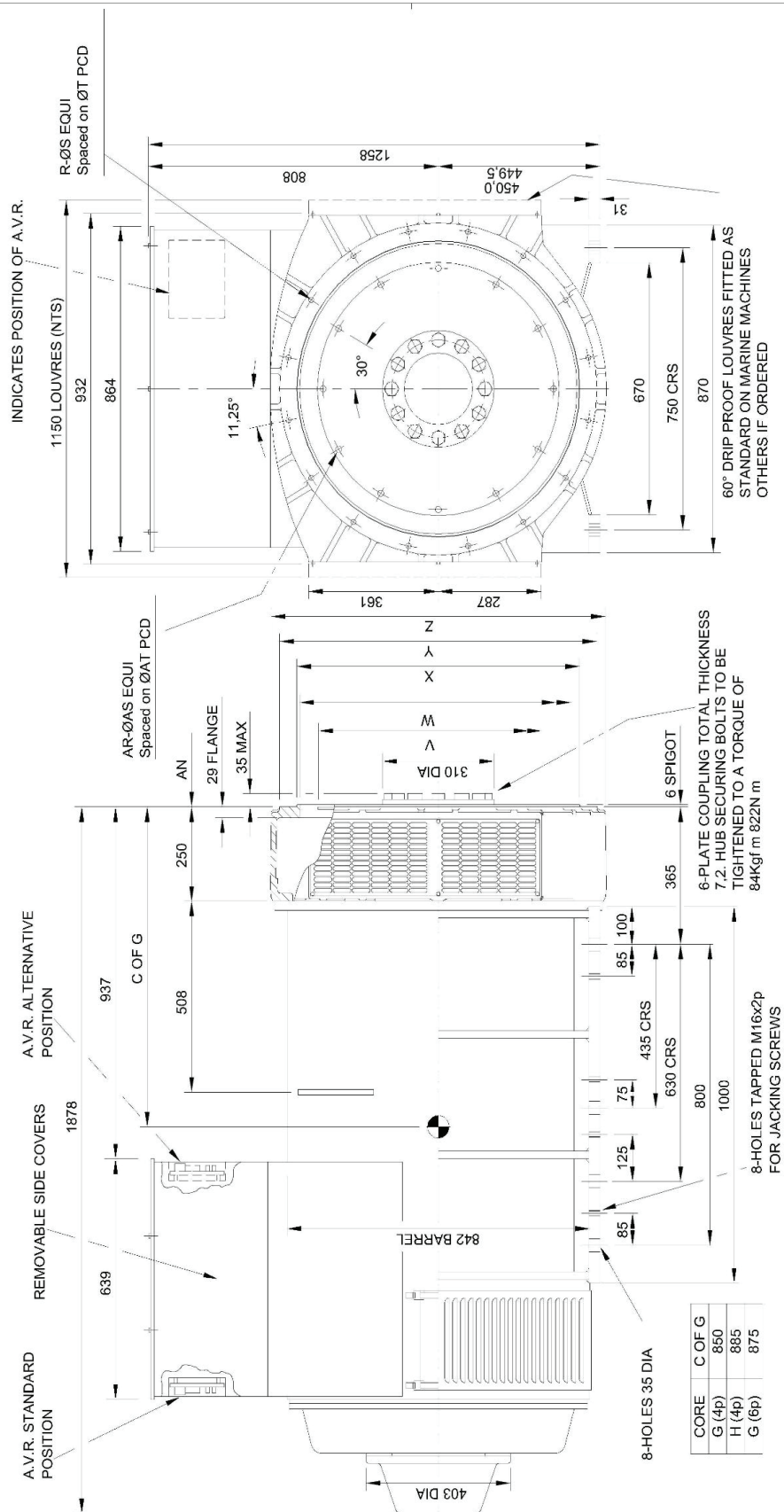
adaptor	X	Y	Z	N	R	S	T	coupling disc					AN	AR	AS	AT
SAE00	787.4	882	944	16	12	14	851	SAE24					0	12	20.7	692
SAE0	647.7	711	944	16	16	14	679.5	SAE21					0	12	16.7	641.3
								SAE18					15.87	6	16.7	543.0



MODEL	A	B	C	C OF G
7E				755
7F	1643	787	433	755
7FS				770

coupling disc	W	AN	AR	AS	AT
SAE24	733.3	0	12	20.7	692
SAE21	673.02	0	12	16.7	641.3
SAE18	571.42	15.87	6	16.7	543.0

adaptor	X	Y	Z	N	R	S	T
SAE00	787.4	882	944	16	12	14	851
SAE0	647.7	711	944	16	16	14	679.5



MODEL	A	B	C	C OF G
7G	1878	929	485	850
7H				850
7J	1940	1013	593	915
7K				



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