AC310 AC MOTOR SÜRÜCÜ PROFİNET HABERLEŞME KILAVUZU









AC300PN1 Profinet genişleme kartı şekil 1 ve şekil 2 görüldüğü gibi iki kısımdan oluşur. AC310 AC Sürücüye bağlamak için aşağıdaki yönlendirmeleri izleyiniz.





Şekil 4

Şekil 5

Şekil 6

AC300PN1 Profinet kartını AC310 AC sürücüye yerleştirmek için şekil 3'deki üst kapak kaldırılır. Şekil 4 işaretli yerlerden çekilerek iç kapak çıkarılır ve şekil 5 gibi karta ulaşılır. Kart hafif yukarı çekilerek yerinden çıkartılır. Şekil 6'daki işaretli yere şekil 2'de görünen kart yerleştirilir. Yerinden çıkarılan kart tekrar yerine takılır ve sonrasında iç kapak yerine takılır.



Fonksiyonel Akıllı Teknolojiler ve Endüstriyel Kontrol A.Ş. Küçükbakkalköy Mah. Koca Sinan Cad. Selvili Sok. No:4 K:2 Tel: +90 (216) 314 55 69 veichi.com.tr Faks: +90 (216) 314 55 70 forum.veichi.com.tr







Şekil 7

Şekil 8

İç kapak yerine takıldıktan sonra **şekil 1'**deki kart **şekil 7'**de işaretli yerlere takılır. **Şekil 8'**de görüldüğü gibi



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Şekil 9

AC300PN1 kartında 8 adet led bulunmaktadır (şekil 9). Aşağıdaki tabloda durum açıklamaları verilmiştir.

Gösterge	Gösterge durumu	Açıklama	İşleme metodu		
C	Açık	Güç Var	-		
Guç	Kapalı	Güç Yok	Sürücüye Güç gelmiyor ya da Kart'ta Problem var		
Led1	Açık	RJ45 bağlantı noktası başlatılmadı ve güç sistemi arızalı	Ağ kablosunun doğru bağlanıp bağlanmadığını kontrol edin ve GSD versiyonunun veya konfigürasyonunun yanlış olup olmadığını kontrol edin.		
Lear	Kapalı	RJ45 portu başlatıldı ve güç sistemi normal	-		
	Yanar Söner	İnvertör hatası	İnvertör Hatasını kontrol ediniz		
Led2	Kapalı	İnvertör normal	-		
Led3	Yanar Söner	Genişleme kartı ile invertör Arasında haberleşme yok	İnvertör ile PN kart versiyonun kontrol ediniz Genişleme kartının doğru noktaya takıldığını kontrol ediniz.		
Leas	Kapalı	Normal	-		
led4	Yanar Söner	Genişleme kartı ile invertör arasında okuma ve yazmada problem	GSD dosyasının doğru olup olmadığını bakın; Seçilen PZD adresinin doğru olup olmadığını kontrol edin		
Lear	Kapalı	Normal	-		
	Yanar Söner (0.25s)	Ana istasyon ile bağlantı hatası	Ana istasyon kablo bağlantılarını kontrol ediniz		
Led5	Yanar Söner (0.5s)	Ana istasyon ile bağlantı hatası	Ana Bağlantı ile yardımcı cihaz bağlı PLC programı indiriliyor		
	Kapalı	Ana Bağlantı ile yardımcı cihaz bağlı	-		
	Yeşil ışık açık	Ağ kablosu normal	-		
	Yeşil ışık kapalı	Ağ kablosunda problem	Ağ kablosunu kontrol ediniz		
Link0/1	Sarı ışık açık	Haberleşme normal	-		
	Sarı ışık yanar söner	Haberleşme Yapıyor	-		



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AC300PN1 kartını AC310 sürücüye tanıtmak için aşağıdaki parametreleri ayarlamalısınız.

Fonksiyon kodu	İsim	Ayar aralığı	Ayar değeri	Açıklama
F01.01	Çalış (Run) komutu kaynağı	0: Tuş takımı kontrol 1: Harici terminal ile kontrol 2: RS485 haberleşme ile kontrol 3: Opsiyonel kart 4: Terminal anahtardan komut girişi	3	Çalıştırma komutu AC300PN1 kartı tarafın- dan verilir
F01.02	Frekans komut kaynağı	0: Tuş takımı üzerinden nümerik giriş ile 1: Tuş takımı üzerindeki potansiyometre ile 10: Opsiyonel kart	10	AC300PN1 kartı ile frekans komutu verilir
F01.11	Frekans üst sınırı kaynağı	Sürücünün üst sınır frekansı için bir kaynak seçer. 0: Tuş takımı üzerinden nümerik giriş ile 1: Ayrılmış 2: Analog girişten Gerilim (VS) 3: Analog girişten Akım ve Gerilim (AI) 4: Analog girişten Akım (AS) 5: Terminalden pals (PUL) ile 6: RS485 Haberleşme ile 7: Opsiyonel kart	-	Üst limit frekansını sınırlamak için AC300PN1 kartı kullanıyorsanız, bunu 7'ye ayarlamanız gerekir.
F03.41	Tork komut kaynağı	0: Tuş takımı üzerinden nümerik giriş ile 1: Tuş takımı üzerindeki potansiyometre ile 7: Opsiyonel kart	-	Tork komutu için AC300PN1 kartı kullanı- yorsanız, bunu 7'ye ayarlamanız gerekir
F03.54	Tork kontrol ileri hız sınırı seçimi	0: F03.56 ile nümerik ayar; 1: ayrılmış 7: Opsiyonel kart × F03.56;	-	Tork komutu ileri hız sınırı için AC300PN1 kartı kullanıyorsanız, bunu 7'ye ayarlama- nız gerekir
F03.55	Tork kontrol ileri hız sınırı seçimi	0: F03.56 ile nümerik ayar; 1: Ayrılmış 7: Opsiyonel kart × F03.56;	-	Tork komutu geri hız sınırı için AC300PN1 kartı kullanıyorsanız, bunu 7'ye ayarlama- nız gerekir
F03.56	Tork kontrol ileri yön maksimum hız sınırı	0.0%~100.0%	-	Bağıl maksimum çıkış frekansı (F01.10)
F03.57	Tork kontrol geri yön maksi- mum hız sınırı	0.0% ~ 100.0%	-	Bağıl maksimum çıkış frekansı (F01.10)
F12.32	PN kartı ve invertör arasın- daki bağlantı kesilmesinin eylemi	0: Algılama yok 1: Alarm ve serbest durma 2: Uyar ve sürekli çalıştır		AC300PN1 kartının kontrol panosu ile bağ- lantı kesilmesinin tespit edilmesinden son- ra eylem yöntemi (Ebus4/A.bus)
F12.43	Master-slave iletişim hatası eylemi	0: Algılama yok 1: Alarm ve serbest durma 2: Uyar ve sürekli çalıştır	-	Master-slave iletişim hatası durumunda işleme modu (PLC ekipmandan ayrıldığın- da veya PLC stop durumundayken Ebus3/ A. buS raporlanır)
F12.50	Genişletme kartının iletişim bağlantısının kesilmesi için işleme yöntemi (frekans inver- törü işleme)	Birinci bölüme: EX-A takılan İkinci bölüme: EX-B takılan 0: Algılama yok 1: Alarm ve serbest durma 2: Uyar ve sürekli çalıştır	-	AC300PN1 kartı ile frekans invertörü ara- sında iletişim hatası olması durumunda işlem modu seçimi. (frekans invertörü kendini algılama, raporlama Ebus1/A.bus)



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AC310 haberleşme kontrol grubu

Adres tanımı	Fonksiyon tanımı	Açıklama	R/W
0x3100	Haberleşmeden verilen Frekans	0.01 Hz, örnek 5000 karşılık 50.00Hz	R/W
0x3101	Haberleşme komut ayarı	0: Komut yok 1: İleri yön 2: Ters yön 3: İleri jog 4: Ters jog 5: Yavaşla ve dur 6: Serbestçe dur 7: Hata sıfırlama 8: Run komut yasakla 9: Run komut izin ver	R/W
0x3104	Haberleşme Üst frekans limiti	Birim: 0.01Hz	R/W
0x3105	Haberleşme ile tork ayarı	Birim 0.1%	R/W
0x3106	Tork kontrolünün maksimum ileri frekans limiti	Birim 0.1%	R/W
0x3107	Tork kontrolünün maksimum geri frekans limiti	Birim 0.1%	R/W
0x3108	Haberleşme ile PID değeri	Birim 0.1%	R/W
0x3109	Haberleşme ile PID geri besleme değeri	Birim 0.1%	R/W
0x310A	Gerilim frekans ayrımının ayarı	Birim 0.1%	R/W
0x310B	Tansiyon ayarı	0 ~ maksimum tansiyon	R/W
0x310C	Bobin çapı ayarı	0 ~ maksimum bobin çapı	R/W
0x310D	Doğrusal hız ayarı	0 ~ maksimum doğrusal Hız	R/W
0x310E	Kalkış zamanı 1	F01.21 göre ayarlayın	R/W
0x310F	Duruş zamanı 1	F01.21 göre ayarlayın	R/W
0x3111	Tork akım kompanent	0 ~ 4000 (0.0% ~ 400.0 % karşılık gelir)	R/W
0x3112	Tork filtreleme zamanı	0 ~ 6000 (0.000s - 6.000s karşılık gelir)	R/W
0x3113	Tansiyon PID geri bildirim	0 ~ 1000 (0.0% ~ 100.0% karşılık gelir)	R/W
0x3114	jog durumunda haberleşme ile verilen tork limiti	0 ~ 4000 (0.0% ~400.0% karşılık gelir)	R/W
0x3115	çalışma durumunda haberleşme ile verilen tork limiti	0 ~ 4000 (0.0% ~ 400.0% karşılık gelir)	R/W



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AC310 haberleşme izleme grubu

Parametre adresi	İsim	Açık	lama	R/W
		Bit0	0: Duruyor 1: Çalışıyor	
		Bit1	0: Hızlanma olmadan, 1:Hızlanma var	
		Bit2	0: Yavaşlama olmadan 1:Yavaşlama var	
		Bit3	0: İleri 1: Geri	
0.2102		Bit4	0: Hata yok 1: Hata	
0x3102			0: GPRS kilitsiz, 1: GPRS kilitli	R
		Bit6	0: Uyarı yok 1: Uyarı]
		Bit7	0: Hazır değil, 1:Hazır	
			0: Kontrol kartı ile haberleşme hatası yok	7
		Dico	1: Kontrol kartı ile haberleşme hatası	
0x3010	Arıza kodu/uyarı kodu (adrese karşılık gelen fonksiyon geçersiz)	Bakır	nz C00.36	R
		Bit0:	Y terminal durumu	
0,2019	Harici çıkış terminali (adrese karşılık gelen fonksiyon	Bit1:	Röle durumu	р
0X3010	geçersiz)		Harici Y1 durumu	к
			Bit3: Harici röle durumu	
0x3019	AO1 çıkışı (adrese karşılık gelen fonksiyon geçersiz)	0-100	000	R



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AC310 haberleşme izleme grubu

0x301A	AO2 çıkış (adrese karşılık gelen fonksiyon geçersiz)	0 ~ 10000	R
C00.00(0x2100)	Ayar frekansı	0.01Hz	R
C00.01(0x2101)	Çıkış frekansı	0.01Hz	R
C00.02(0x2102)	Çıkış akımı	0.1A	R
C00.03(0x2103)	Giriş voltajı	0.1V	R
C00.04(0x2104)	Çıkış voltajı	0.1V	R
C00.05(0x2105)	Mekanik hız	1rpm	R
C00.06(0x2106)	Ayar torku	0.1%	R
C00.07(0x2107)	Çıkış torku	0.1%	R
C00.08(0x2108)	PID ayar değeri	0.1%	R
C00.09(0x2109)	PID geri besleme	0.1%	R
C00.10(0x210A)	Çıkış gücü	0.1%	R
C00.11(0x210B)	Bara gerilimi	0.1V	R
C00.12(0x210C)	Modül sıcaklığı 1	0.1	R
C00.13(0x210D)	Modül sıcaklığı 2	0.1	R
C00.14(0x210E)	Giriş terminali X durumu	-	R
C00.15(0x210F)	Giriş terminali Y durumu	-	R
C00.16(0x2110)	Analog AI1 giriş değeri	0.00% (0.001V)	R
C00.17(0x2111)	Analog AI2 giriş değeri	0.00% (0.001V)	R
C00.18(0x2112)	Ayrılmış	-	R
C00.19(0x2113)	Pals sinyal PUL giriş değeri	0.001kHz	R
C00.20(0x2114)	Analog çıkış AO	0.01V/0.01mA/0.01kHz	R
C00.21(0x2115)	Analog çıkış AO2	0.01V/0.01mA/0.01kHz	R
C00.22(0x2116)	Sayıcı sayım değeri	1	R
C00.23(0x2117)	Gerilim geldiğinde Çalışma zamanı	0.1 saat	R
C00.24(0x2118)	Toplam çalışma zamanı	saat	R
C00.25(0x2119)	Invertör kapasitesi	Kw(0.1Kw)	R
C00.26(0x211A)	İnvertör anma gerilimi	v	R
C00.27(0x211B)	İnverter anma akımı	A (0.1A)	R
C00.28(0x211C)	Yazılım versiyonu	-	R
C00.29(0x211D)	PG geri besleme frekansı	0.01Hz	R
C00.30(0x211E)	Zamanlayıcı zamanı	saniye, dakika, saat	R
C00.31(0x211F)	PID çıkış değeri	0.1% (0.01%)	R
C00.32(0x2120)	AC motor sürücü yazılım çökmesi	-	R
C00.33(0x2121)	Enkoder geri besleme açısı	0.1°	R
C00.34(0x2122)	Z palsi kümülatif hatası	1	R
C00.35(0x2123)	Z pals sayıcı	1	R
C00.36(0x2124)	Hata uyarı kodu	0 ~ 63 hata numarası, 64 ~ 128 uyarı numarası	R
C00.37(0x2125)	Kümülatif güç harcaması (düşük seviye)	1 KWh	R
C00.38(0x2126)	Kümülatif güç harcaması (yükse seviye)	10000 KWh	R
C00.39(0x2127)	Güç faktörü açısı	1°, 0.1°	R



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Bütün bağlantılar yapıldıktan sonra TIA portal programı açılır ve options menüsünden GSD dosyası yükleme menüsü seçilir www.fonksiyonelas.com.tr adresindeki tanıtma videosunu izleyebilirsiniz



www.fonksiyonelas.com.tr adresinden indirdiğimiz sıkıştırılmış GSD dosyasını açıp yerini göstermenizi isteyecektir. Üç noktalı kısma basınız.

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GSD dosyasında 1200 ve 1500 için V2.35 seçilip yükleme (Install) butonuna basılır.

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GSD dosyasını yükledikten sonra ağ izleme bölümünden AC310 sürücümüzü Profinet ağına tanıtmak için yüklemiş olduğunuz GSD dosyasını ağ izleme bölümünden eklemelisiniz.

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Küçükbakkalköy Mah. Koca Sinan Cad. Selvili Sok. No:4 K:2 Ataşehir I İstanbul I Türkiye Tel: +90 (216) 314 55 69 Faks: +90 (216) 314 55 70 veichi.com.tr forum.veichi.com.tr Ürün kataloğu bölümünde yüklemiş olduğunuz GSD dosyasına göre I/O bölümünde VEICHI klasörünün içinde AC310 klasörünün içinde Standart MPG dosyasını ekliyoruz.

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Standart MPG dosyasını ekledikten sonra cihazın özelliklerinden bir telegram seçip cihaza ekliyoruz. İstersek giriş ve çıkış adreslerini değiştirebiliriz.

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Fonksiyonel Akıllı Teknolojiler ve Endüstriyel Kontrol A.Ş.



Küçükbakkalköy Mah. Koca Sinan Cad. Selvili Sok. No:4 K:2 Ataşehir I İstanbul I Türkiye Tel: +90 (216) 314 55 69 Faks: +90 (216) 314 55 70 veichi.com.tr forum.veichi.com.tr Telegramın özelliklerinden modül parametrelerine girip PZD ayarları yapıyoruz ve kaydedip PLC'ye yüklüyoruz.

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Fonksiyonel Akıllı Teknolojiler ve Endüstriyel Kontrol A.Ş.



Cihazımızı seçtikten sonra isim ata "assing name" butonuna basıyoruz ve cihazın ismi atanıyor. Pencereyi kapatıyoruz ve tekrar PLC'ye bağlanıyoruz ve artık programımızı yazabiliriz.





Fonksiyonel Akıllı Teknolojiler ve Endüstriyel Kontrol A.Ş.

