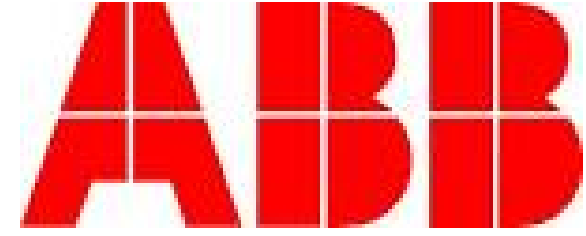




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Faks Numarası  
(+90) 216 415 22 22  
Eposta Adresi  
info@halici.com



Şirket /Müşteri: Halıcı Elektronik

Proje Tanımı: AR-GE Test Panosu

Proje Numarası: PN21A001

Proje Tasarım: Erkan ÖZCEBECİ

Kontrol & Doğrulama Enes AKTAŞ

Çalışma Gerilimi: 400 V AC

Kontrol Gerilimi: 230 V AC

Sinyal Gerilimi: 24 V DC

Kontrol Sistemi: 230 V AC - 24 V DC

Proje Başlangıç Tarihi : 28.01.2020

Son Revizyon Tarihi : 27.08.2021

## KABLO RENK KODLARI

400V AC L1-L2-L3 : SİYAH

230V AC L : SİYAH

230V AC N : MAVİ

(+) 24V DC : KOYU MAVİ

(-) 24V DC : MAVİ - BEYAZ

TOPRAK : SARI - YEŞİL

Toplam proje sayfaları : 22

Bu Projenin Tüm Hükümü Halıcı Elektronik ve Telekomünasyon Şirketine Aittir Kopyalanamaz ve Çoğaltılamaz !

Proje Tasarımı:	Erkan ÖZCEBECİ
Kontrol ve Doğrulama:	Enes AKTAŞ
Proje Başlangıç Tarihi:	5.03.2021
Son Düzeltme Tarihi:	13.04.2021



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Halıcı Elektronik

AR-GE Test Panosu

Kapak Sayfası

Proje Kodu:

PN21A001

=
+
Sayfa numarası: 1
Toplam Sayfa Sayısı: 22

## Cabinet Assembly Cable Detail Description

Device	Color	Color	Application
Power	Black	BK	400 VAC Motor
Notr	Light Blue	LBU	400 VAC Motor
PE	Green/Yellow	GNYE	PE
Control voltage AC	Black	BK	230 VAC, Control voltage
Control voltage AC	Light Blue	LBU	230 VAC, Control voltage
Control voltage DC	Dark Blue	DBU	24 VDC, Control voltage
Control voltage DC	Light Blue	LBU	0 VDC, Control voltage
External	Orange	OR	External
Motor mounting	Brown	WH/BN	Motor mounting
Other			

Electrical Symbol Identification Descriptions

Description	ICE	Description	ICE
Controller	A	Busbar	U
Level detector	A	Device connection point	U
PLC box	A	Assembly	V
PLC connection point	A	Data recorder	V
Analog sensor	B	Diode	V
Connection	B	Logic item	V
Digital sensor, general	B	Measuring instrument	V
Light barrier	B	Rectifier	V
Proximity sensor, change-over contact	B	Semiconductor	V
Capacitor	C	Transistor	V
Heating element	E	Cable	W
Current circuit breaker	F	Shielding	W
Residual Current Circuit Breaker	F	Plug definition for male and female pins	X
Overload	F	Separation Terminal	X
Safety fuse	F	Pin	X
Generator	G	Plug	X
Hall generator	G	Terminal	X
Piezoelectric Crystal	G	Terminal accessories	X
Voltage source	G	Terminal label	X
Display device	H	Brake	Y
Light	H	Connection	Y
Horn	H	Valve	Y
Signal lamp	H	Other	
Change-over contact	K		
Relays, contactors	K		
NC contact	K		
NO contact	K		
Protective circuit	K		
Inductors	L		
Motor	M		
Residual Current Circuit Breaker	Q		
Motor overload switch	Q		
Safety switch	Q		
Resistance	R		
Limit switch	S		
Switch / pushbutton	S		
Transformer	T		
Black box	U		

Button - Light Color Descriptions

Spring, Button Color Identification

Colour	Meaning	Description	Application Examples
Red	Emergency	Press in Emergency	Emergency Stop Button
Yellow	Abnormal	To respond to an abnormal situation	Cycle Stop, High Point Stop
Blue	Compulsory	A mandatory for situations that require action (reset function)	Error Reset, Reset Emergency Stop
Green	Normal	To Start Normal Condition	
White	No Special Meaning	Other Colors Not To Be Used As	Motor Stop, Regulating Up, Down Regulating
Black	No Special Meaning	Other Colors Not To Be Used As	Motor Stop, Regulating Up, Down Regulating

Lamp Push Button, Color Identification

Colour	Meaning	Description	Application Examples
Red	Emergency	If The Lamp / Button Function Including Emergency	
Yellow	Abnormal	If The Lamp / Button Function Including Abnormal Status	Auto Cycle Stop
Blue	Compulsory	Lamp or Button Function Required Action Condition	Light Barrier Reset
Green	Normal	If The Lamp / Button Function Including Normal Status	
White	No Special Meaning	Other Colors Not To Be Used As	Motor Start, Lubrication Motor Start / Stop

Signal Lamp Color Identification

Colour	Meaning	Description	Application Examples
Red	Emergency	Shows Hazardous Faulty Status	Error Illuminator
Yellow	Abnormal	Shows Alert Status	Light Curtain was the past, Engine Returns
Blue	Compulsory	Waiting For An Operator Action	Error Reset, Reset Emergency Stop
Green	Normal	Indicates Normal Condition	Press Ready, Ready Lubrication
White	No Special Meaning	Other Colors Not To Be Used As	

Light Tower Color Identification

Colour	Meaning	Description	Application Examples
Red	Emergency	Shows Hazardous Faulty Status	
Yellow	Abnormal	Shows Alert Status	
Blue	Compulsory	Waiting For An Operator Action	
Green	Normal	Indicates Normal Condition	
White	No Special Meaning	Other Colors Not To Be Used As	
Buzzer	General	None Status Alert	

1.b

Proje Tasarımı:	Erkan ÖZCEBECİ
Kontrol ve Doğrulama:	Enes AKTAŞ
Proje Başlangıç Tarihi:	5.03.2021
Son Düzeltme Tarihi:	11.05.2021

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Halıcı Elektronik
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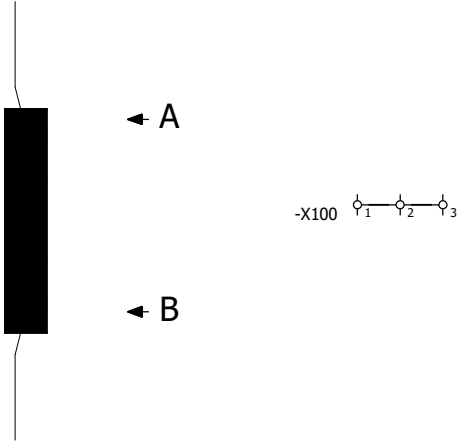
AR-GE Test Panosu
Kablo Renk Tanımları

Proje Kodu:	=
	+
PN21A001	Sayfa numarası: 1.c
	Toplam Sayfa Sayısı: 22

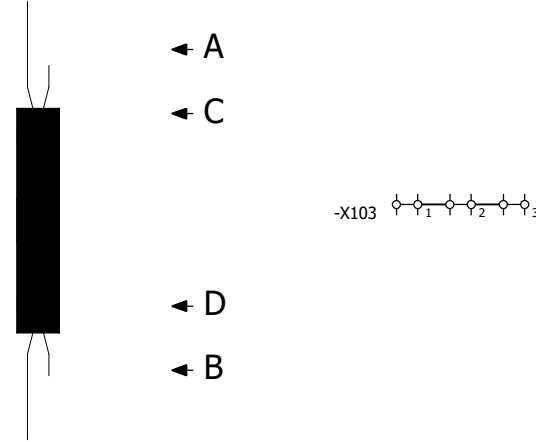
1.d

## Examples Terminal Display

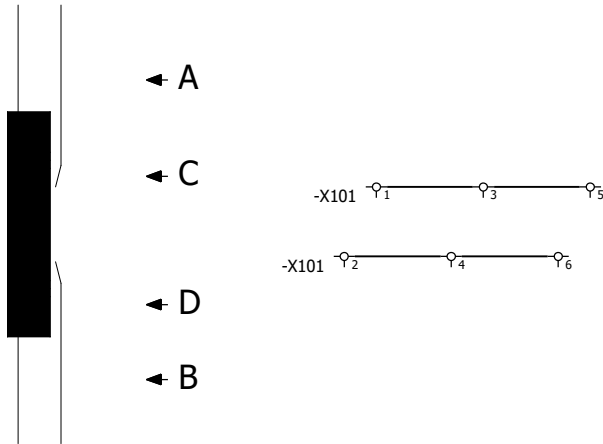
Single Input - Single Output with spring Terminals  
Example of



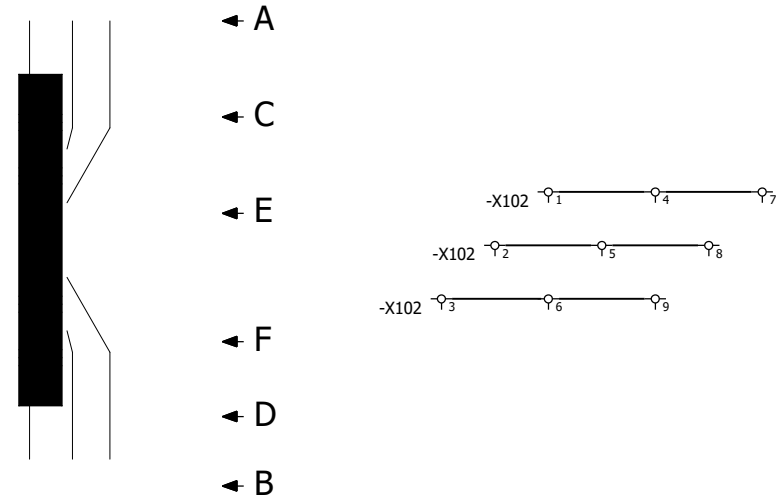
One Input - Three Output with spring Terminals  
Example of



Double Decker, Spring Terminals  
Example of

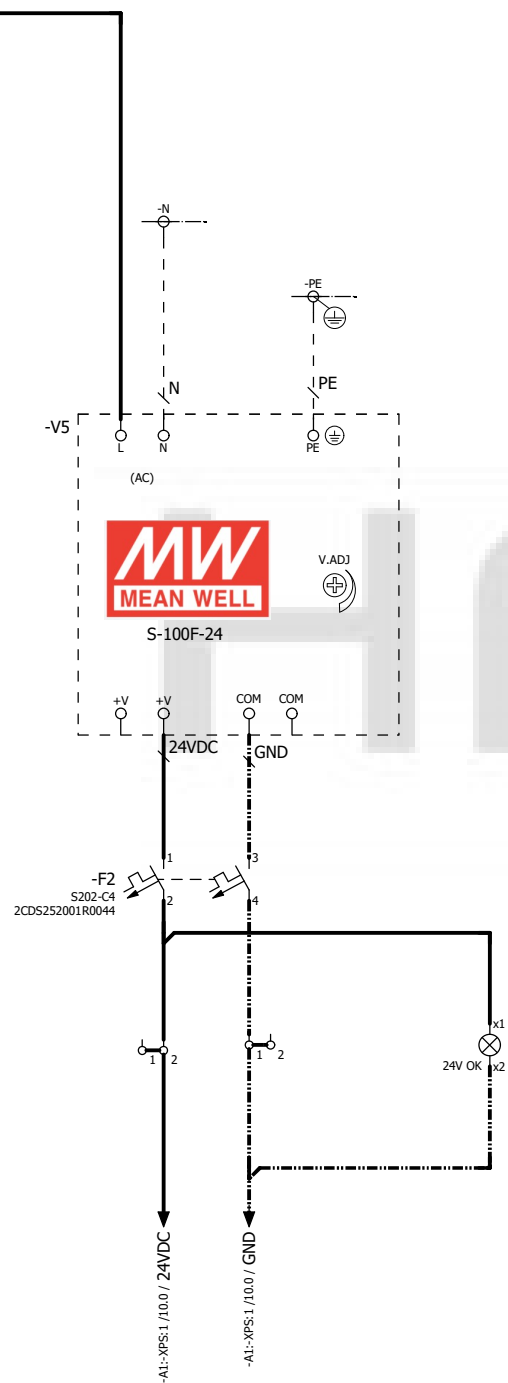


Three Storey, Spring Terminals  
Example of









Proje Tasarımı:	Erkan ÖZCEBECİ
Kontrol ve Doğrulama:	Enes AKTAŞ
Proje Başlangıç Tarihi:	13.04.2021
Son Düzeltme Tarihi:	11.05.2021



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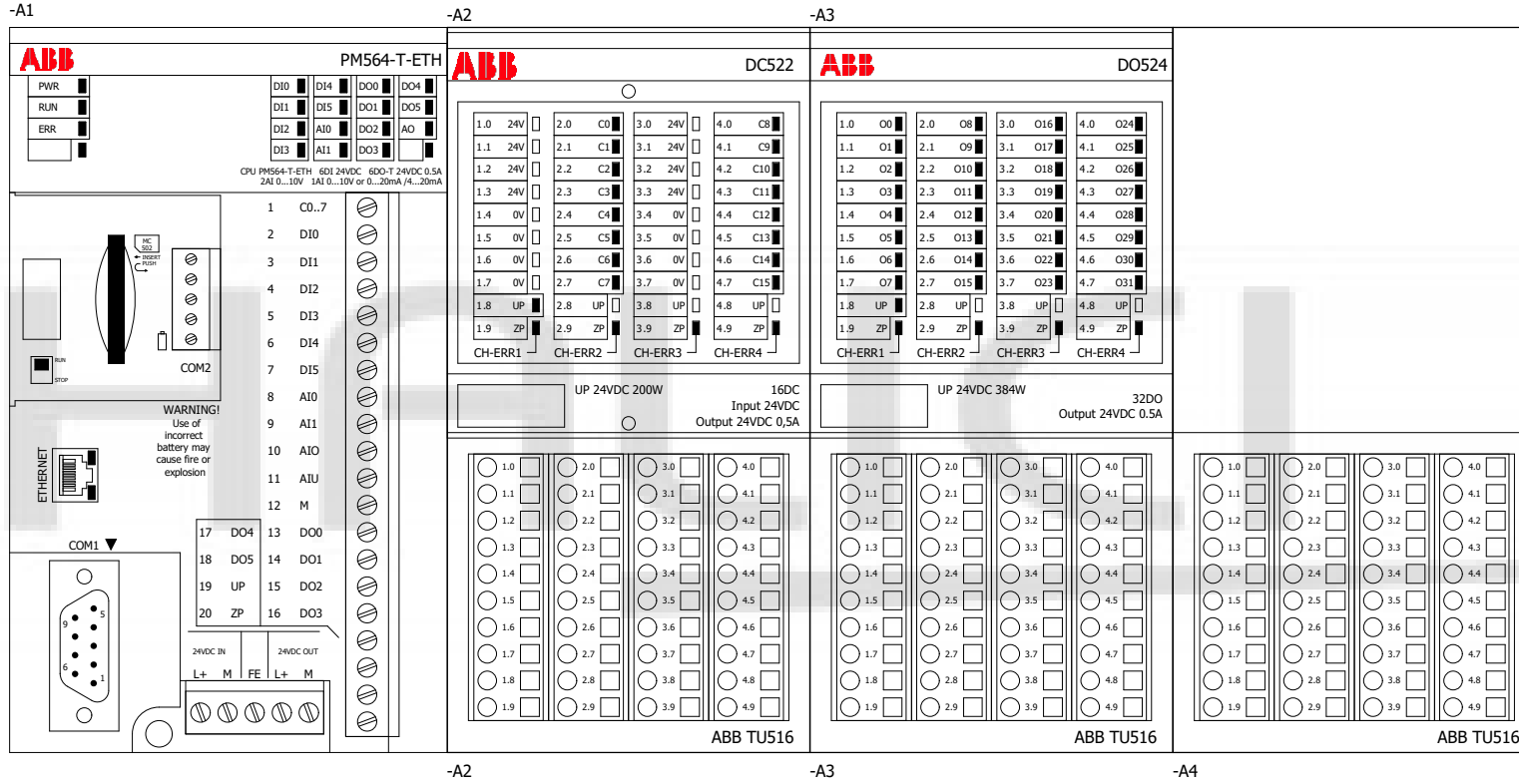
Halıcı Elektronik

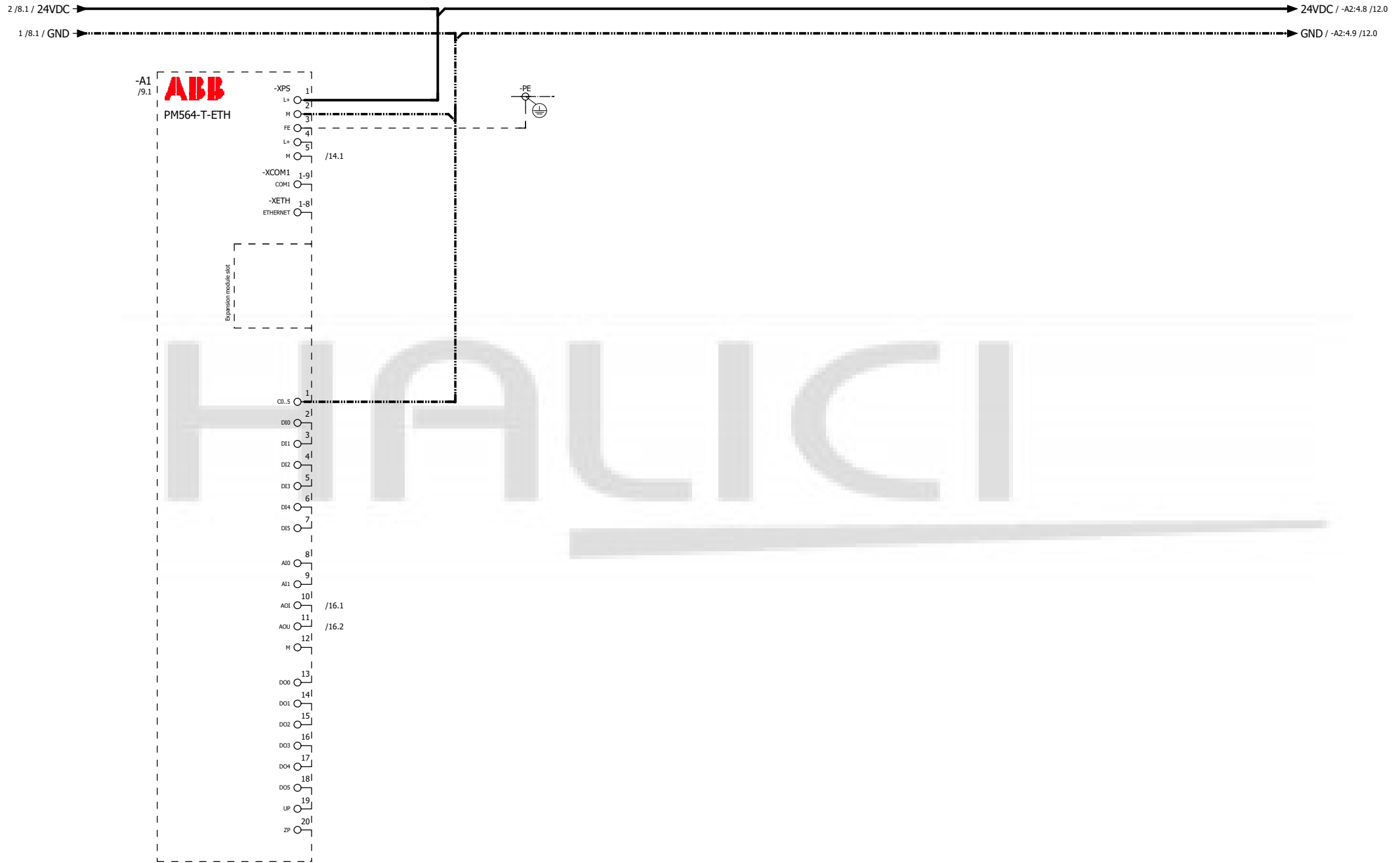
AR-GE Test Panosu

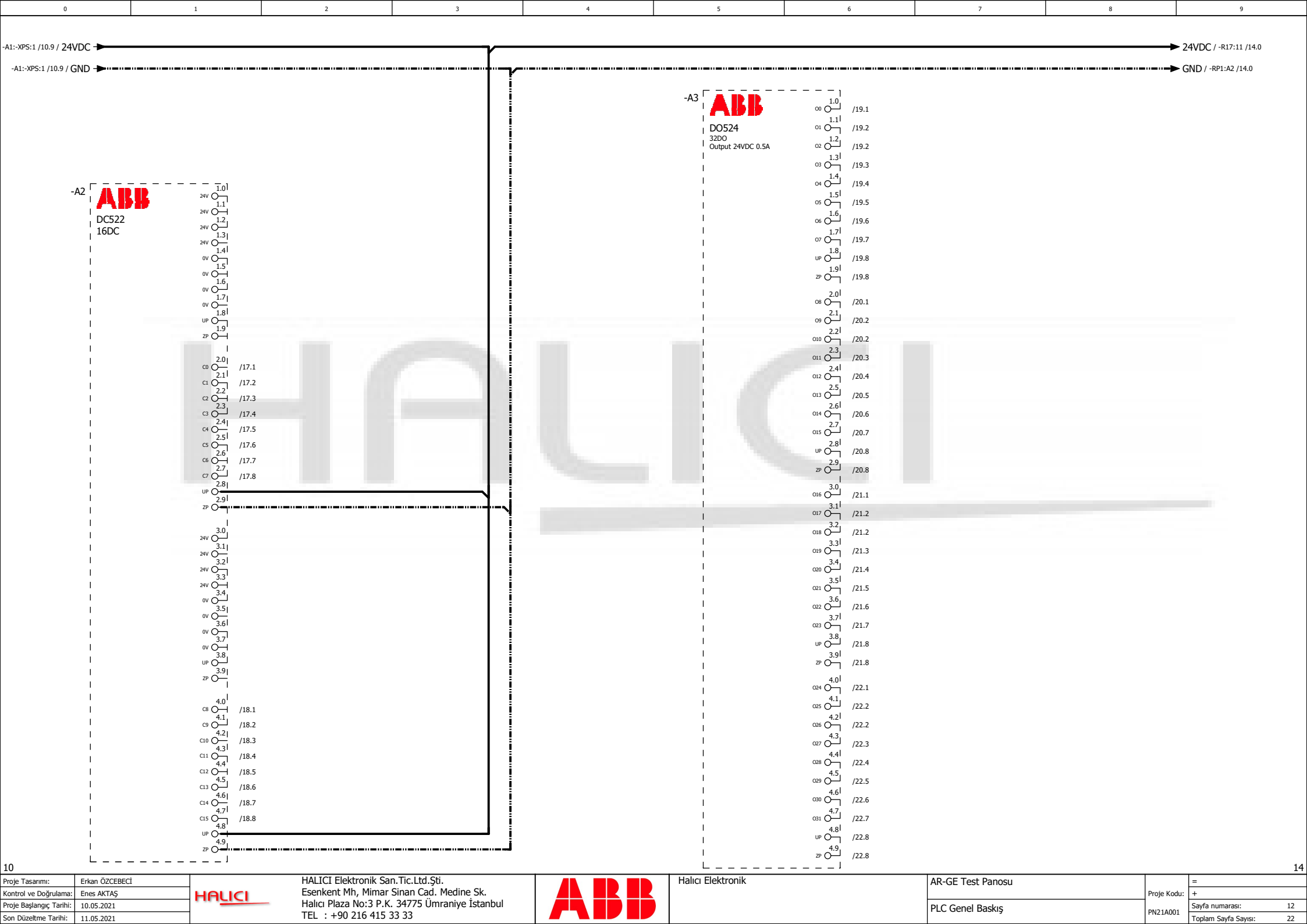
Güç Kaynağı Bağlantısı

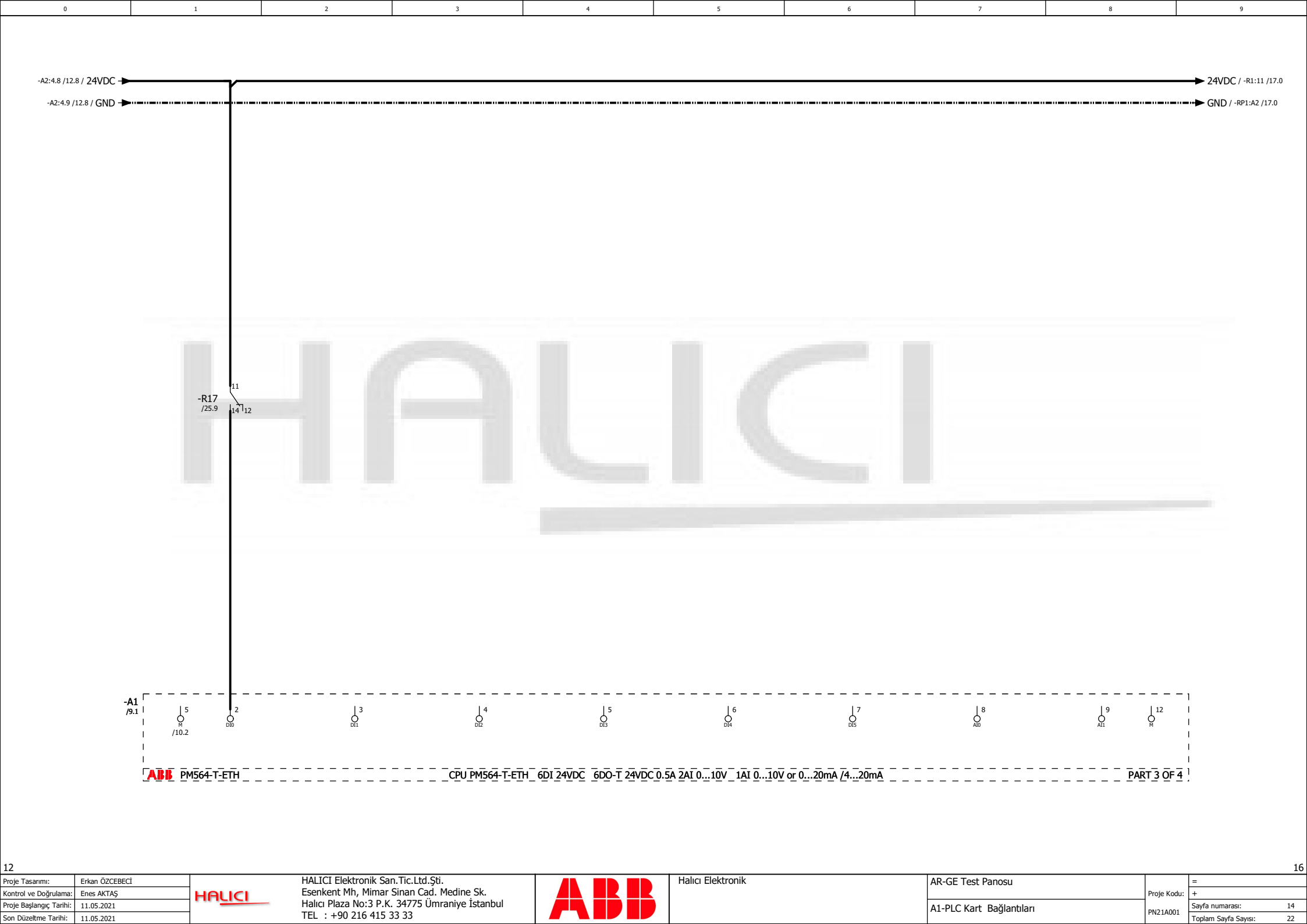
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PN21A001	+
Sayfa numarası:	8
Toplam Sayfa Sayısı:	22

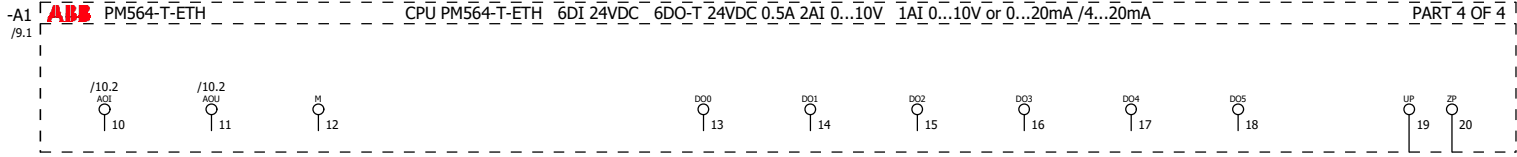




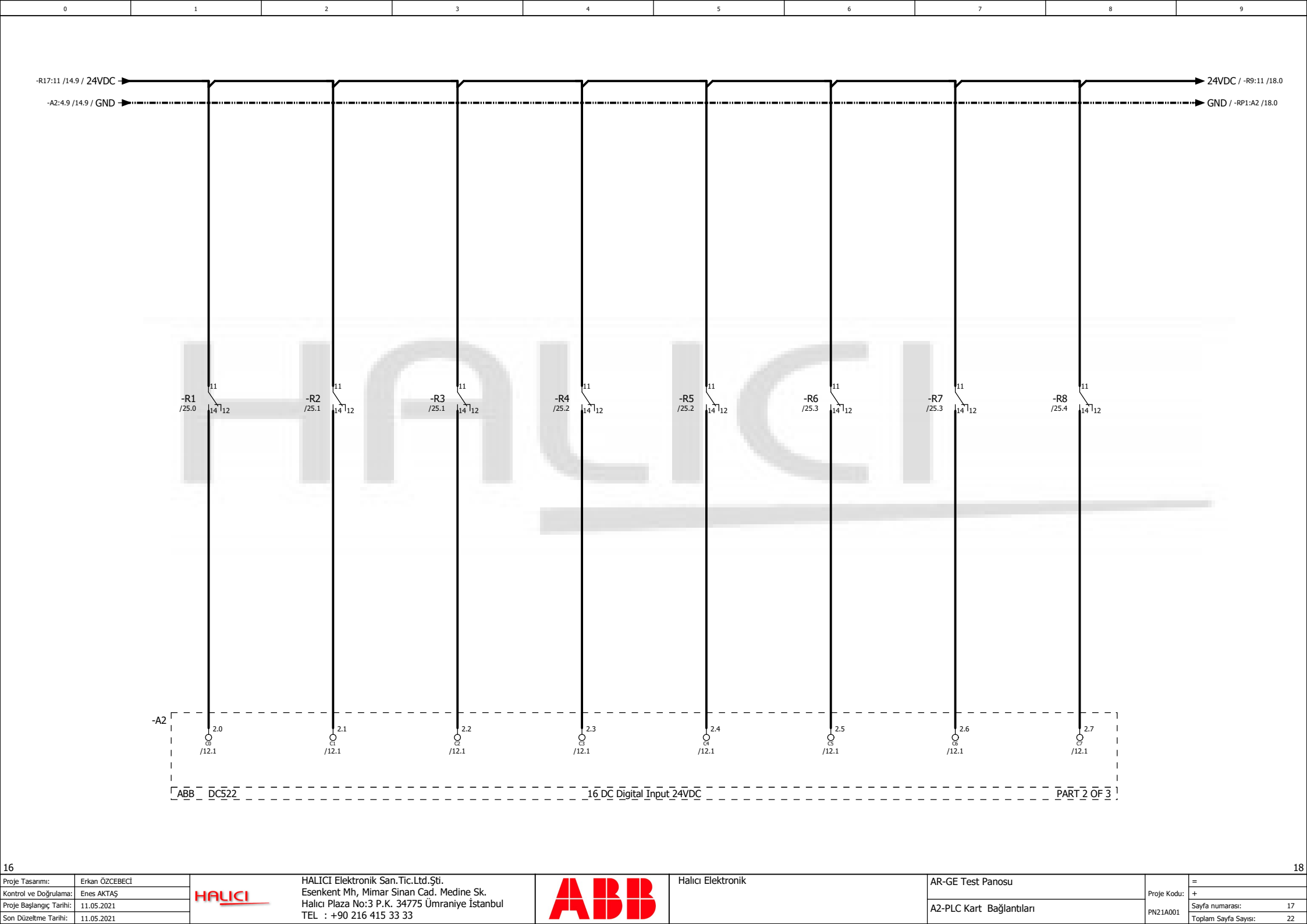


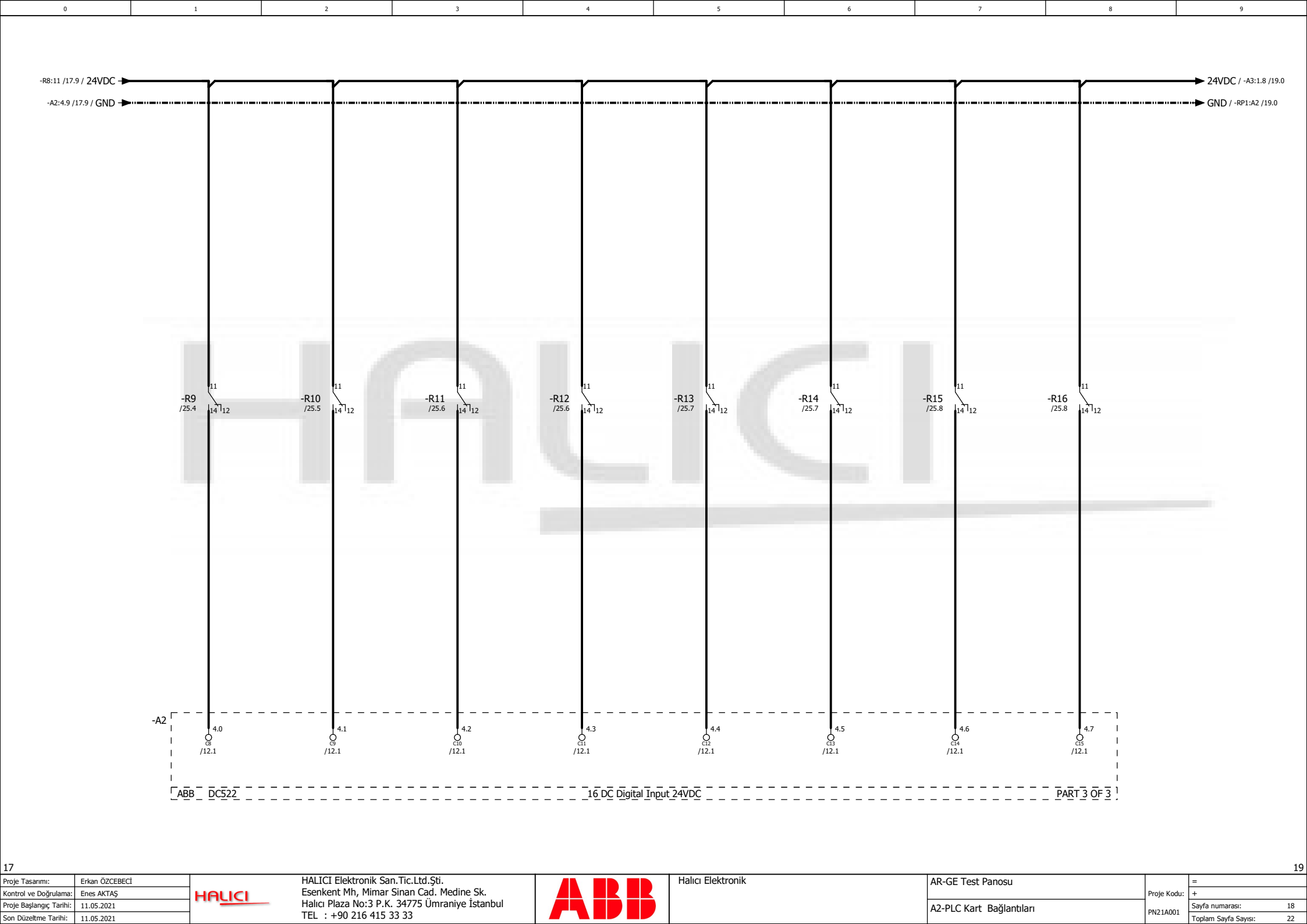


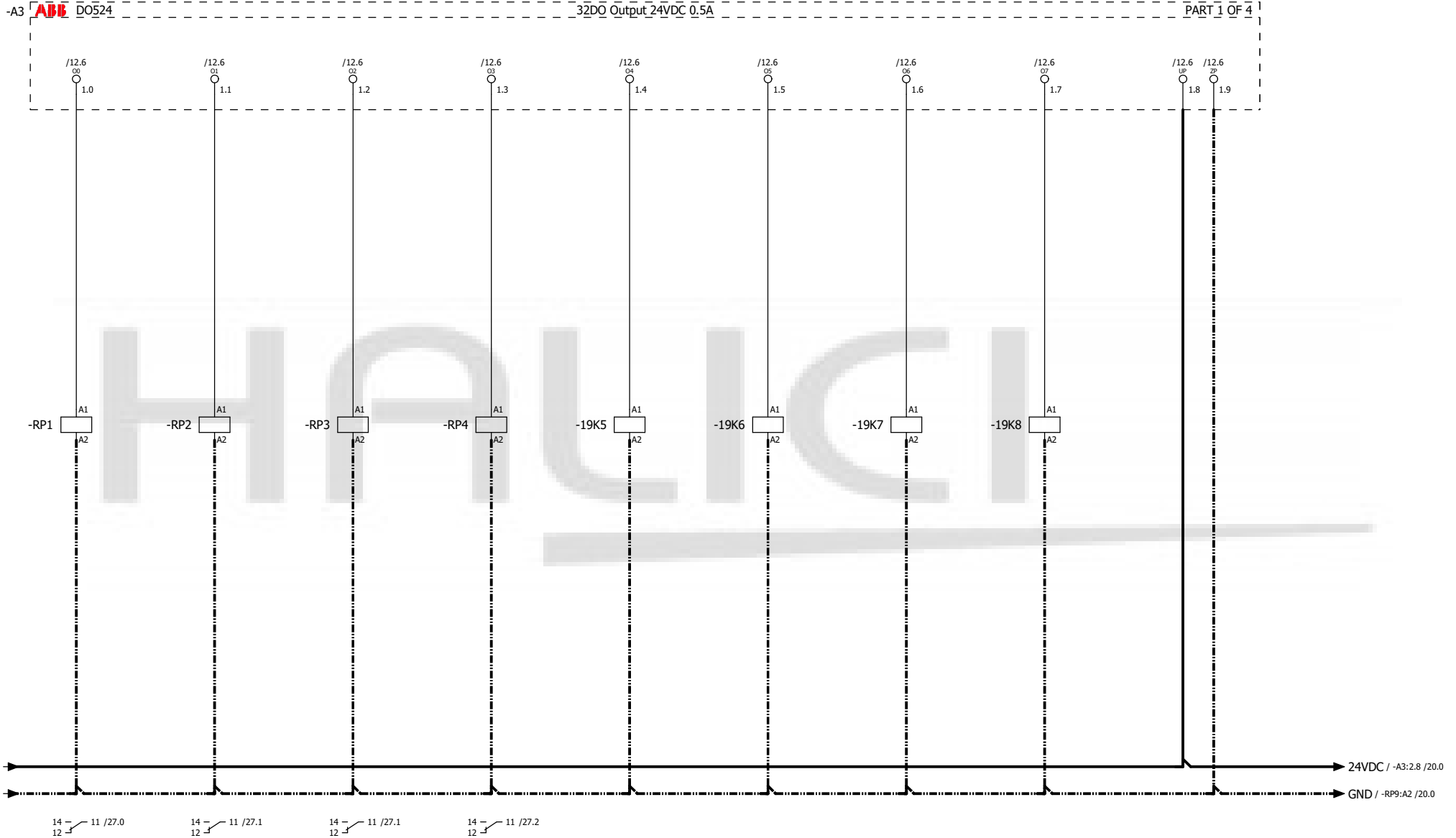




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Proje Tasarımı:	Erkan ÖZCEBECİ
Kontrol ve Doğrulama:	Enes AKTAŞ
Proje Başlangıç Tarihi:	11.05.2021
Son Düzeltme Tarihi:	11.05.2021

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Halıcı Elektronik
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AR-GE Test Panosu
A3-PLC Kart Bağlantıları

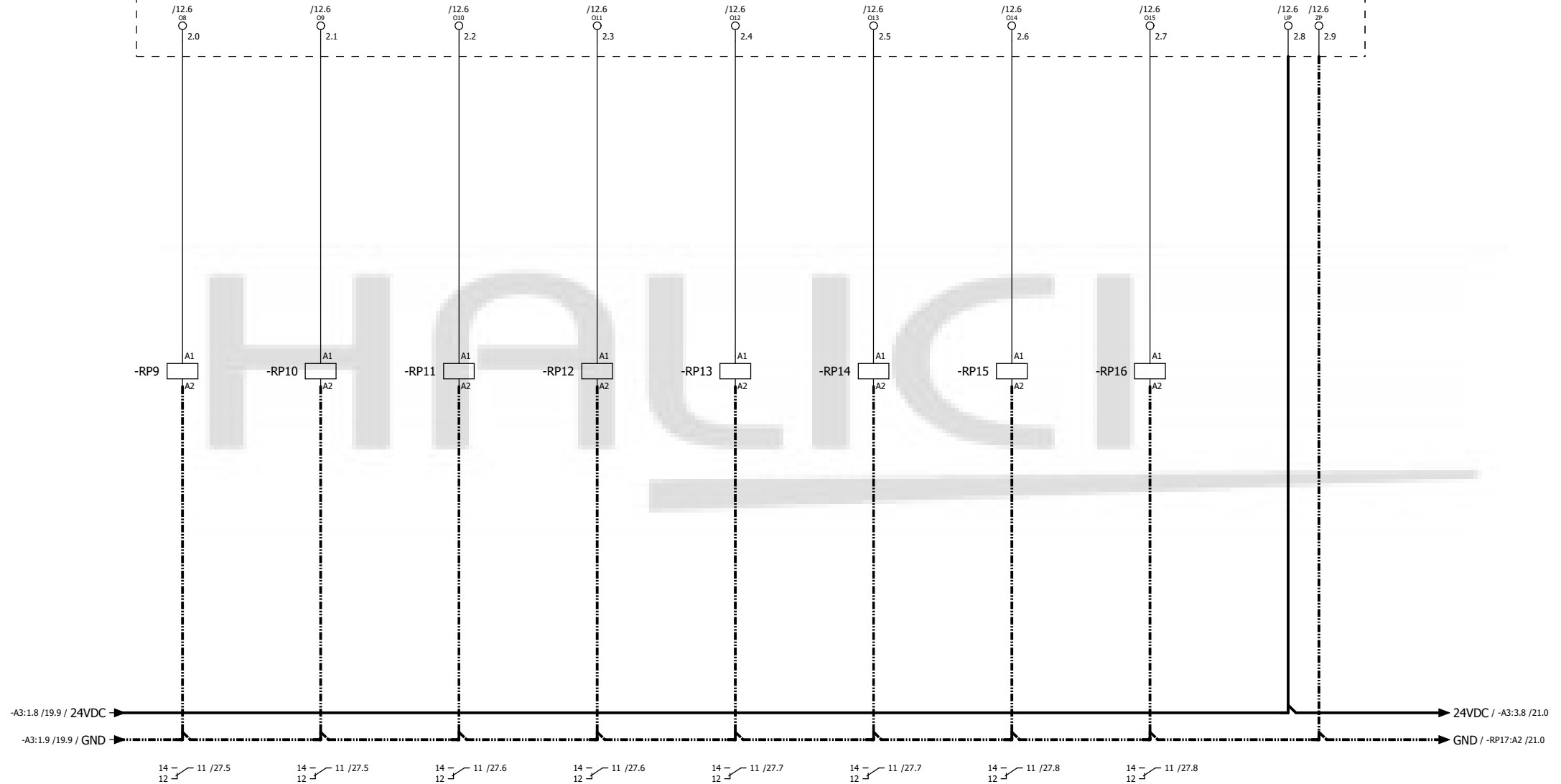
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PN21A001	+
Sayfa numarası:	19
Toplam Sayfa Sayısı:	22



-A3 **ABB** DO524

32DO Output 24VDC 0.5A

PART 2 OF 4



Proje Tasarımı:	Erkan ÖZCEBECİ
Kontrol ve Doğrulama:	Enes AKTAŞ
Proje Başlangıç Tarihi:	11.05.2021
Son Düzeltme Tarihi:	11.05.2021



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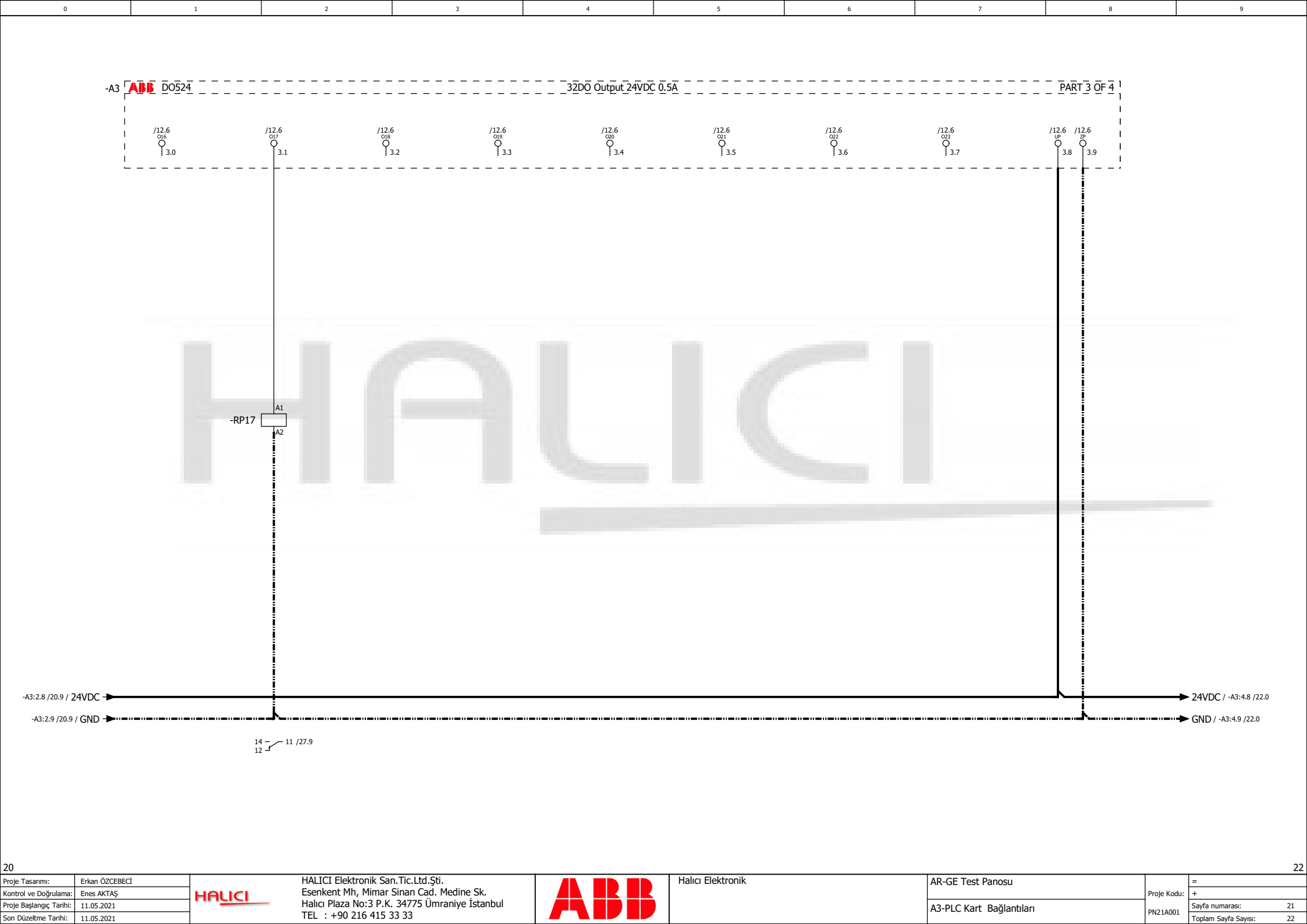


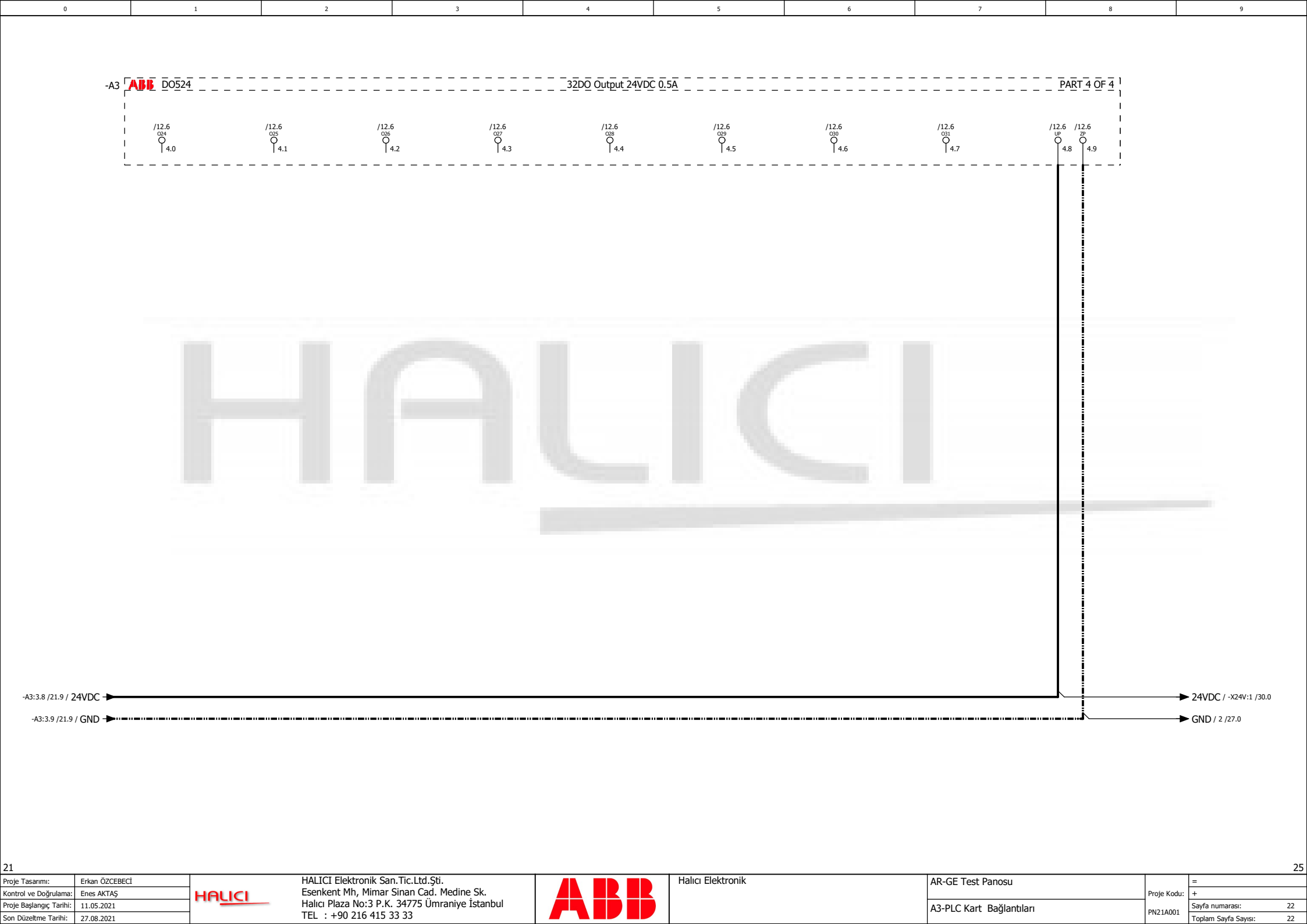
Halıcı Elektronik

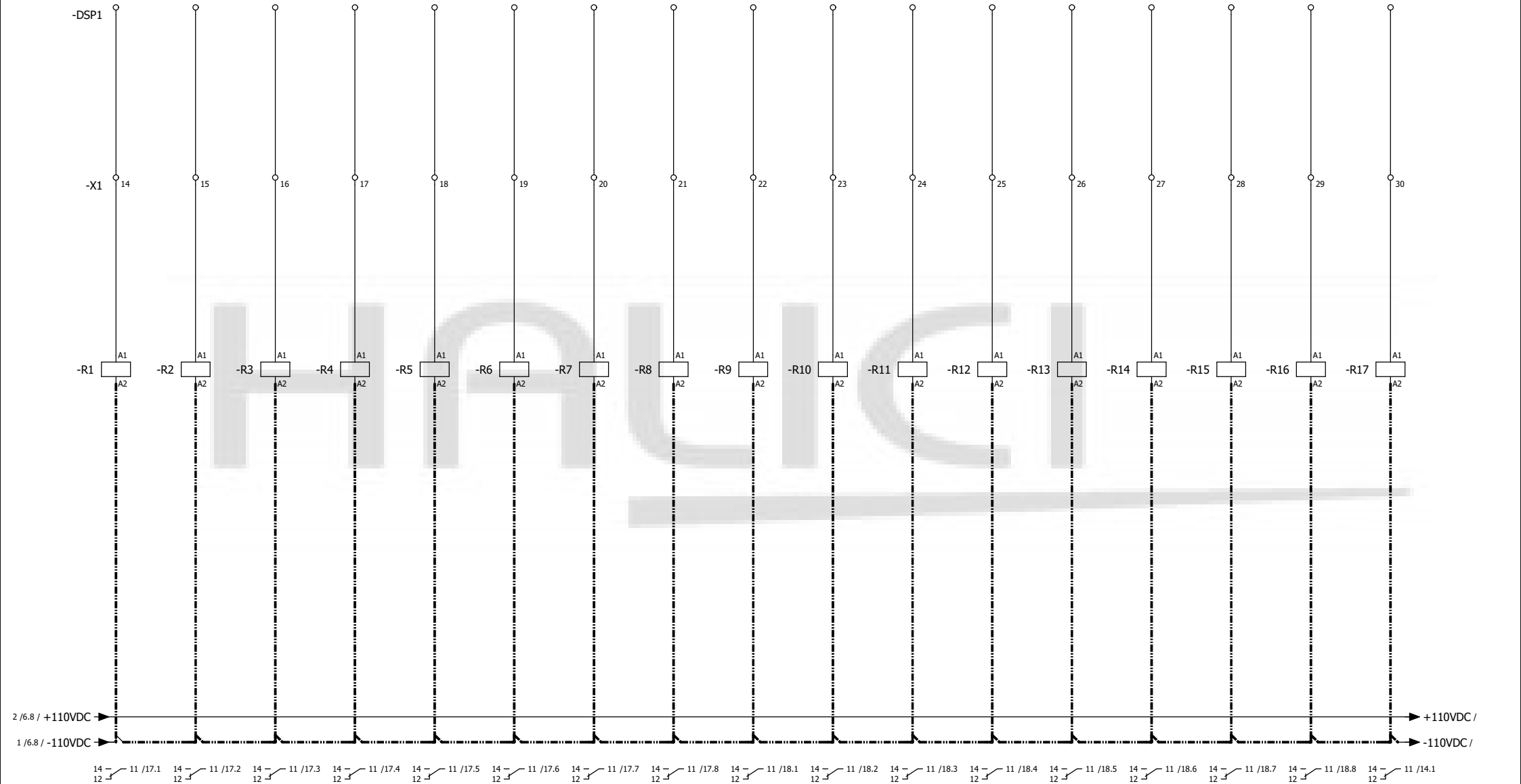
AR-GE Test Panosu

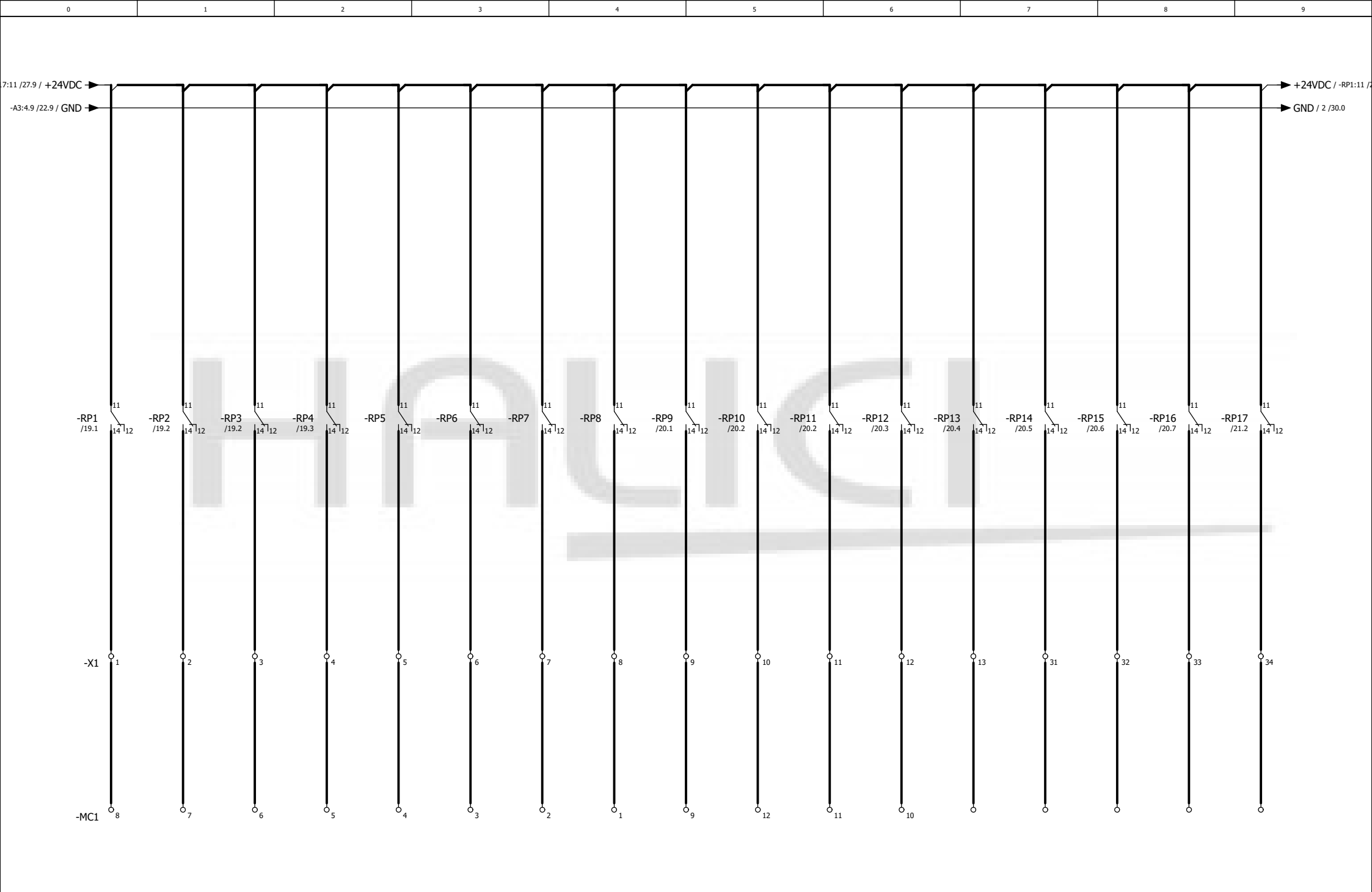
A3-PLC Kart Bağlantıları

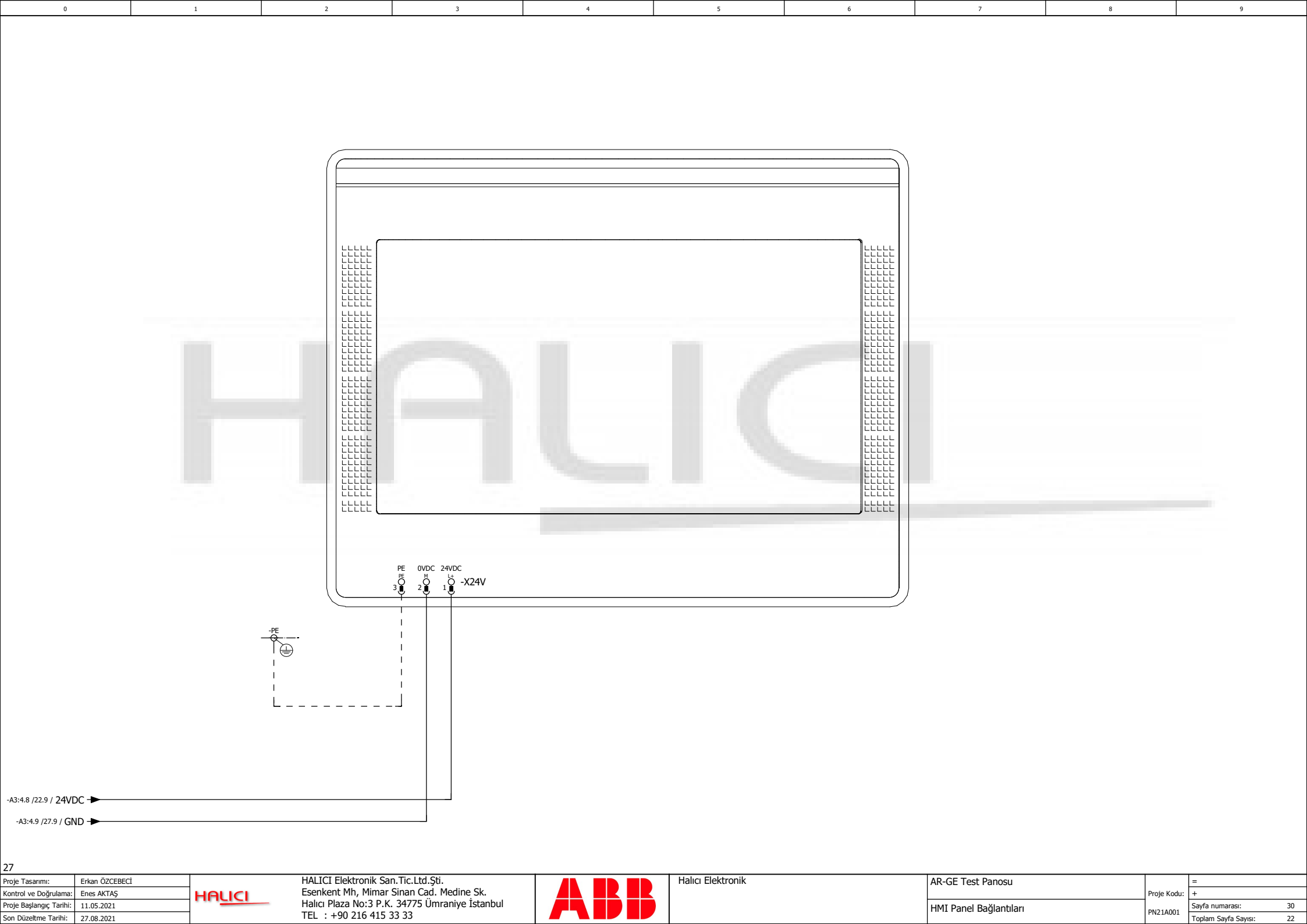
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PN21A001	Sayfa numarası: 20
	Toplam Sayfa Sayısı: 22













Proje Tasarımı:	Erkan ÖZCEBEÇİ		HALICI Elektronik San.Tic.Ltd.Şti. Esenkent Mh, Mimar Sinan Cad. Medine Sk. Halıcı Plaza No:3 P.K. 34775 Ümraniye İstanbul TEL : +90 216 415 33 33		Halıcı Elektronik	AR-GE Test Panosu	Proje Kodu:	=
Kontrol ve Doğrulama:	Enes AKTAŞ							+
Proje Başlangıç Tarihi:	11.05.2021					PN21A001	Sayfa numarası:	30
Son Düzeltme Tarihi:	27.08.2021						Toplam Sayfa Sayısı:	22
HMI Panel Bağlantıları								