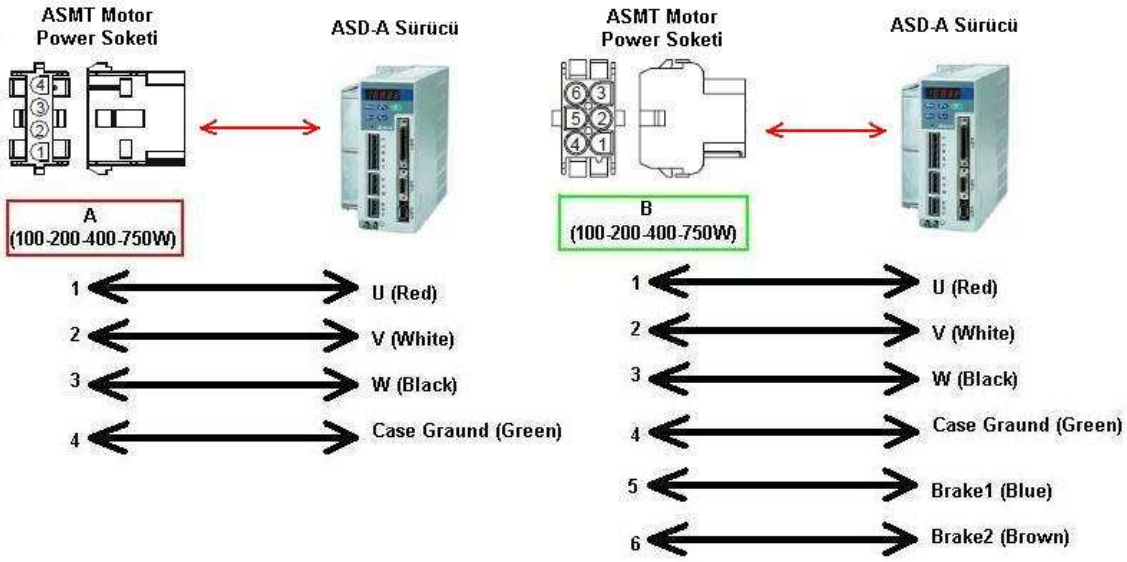
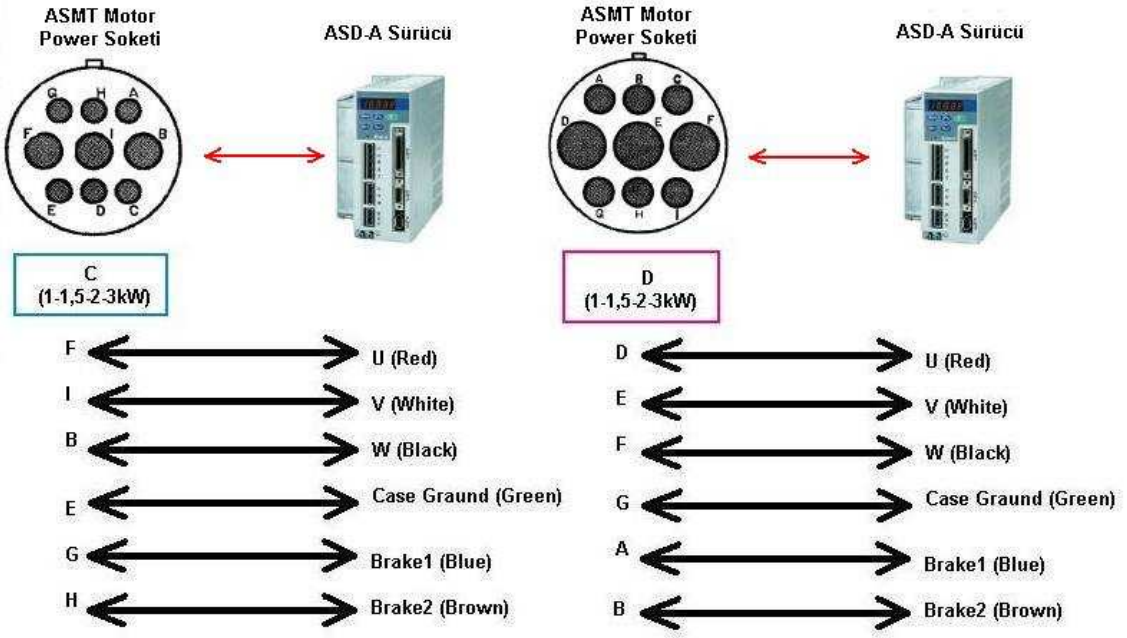
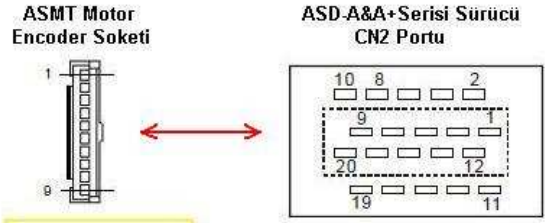
ASD-A&A+ SERİSİ MOTOR-SÜRÜCÜ BAĞLANTISI



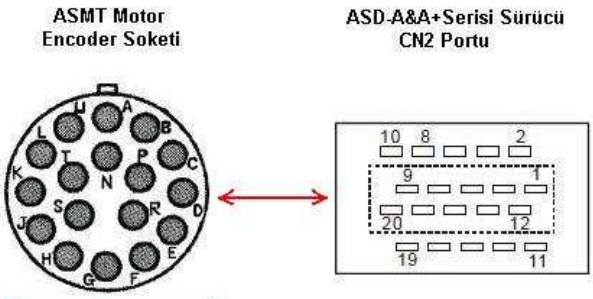


ASD-A&A+ SERİSİ ENCODER-SÜRÜCÜ BAĞLANTISI



A
(100-200-400-750W)

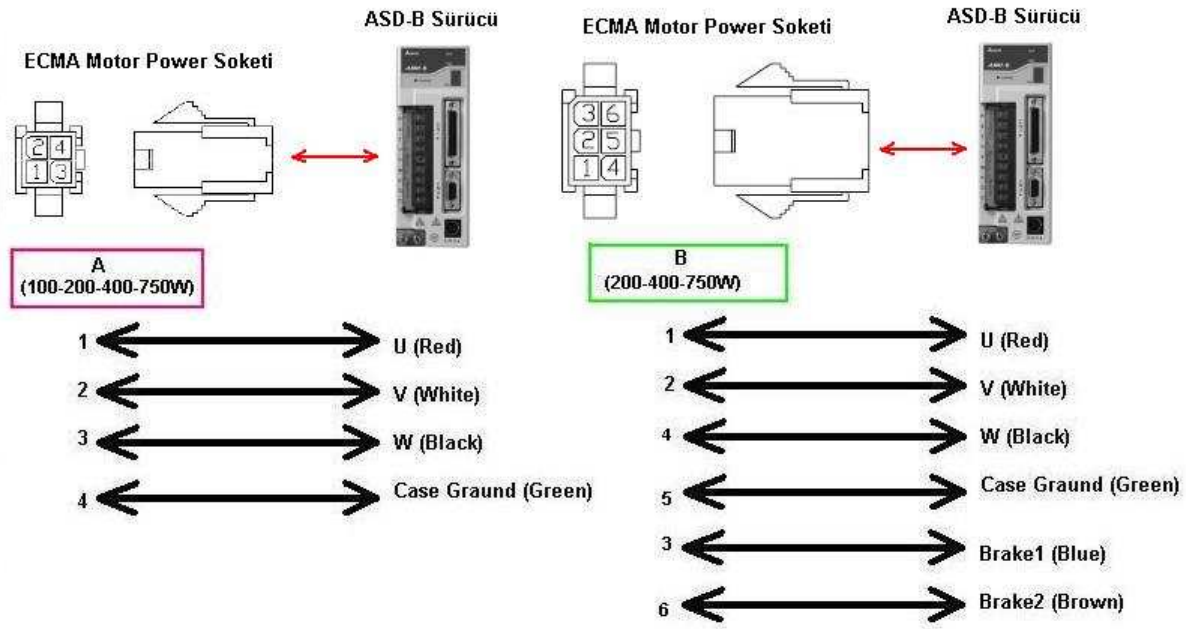
1	⟷	5 (A) (Blue)
2	⟷	4 (/A) (Blue/Black)
3	⟷	7 (B) (Green)
4	⟷	9 (/B) (Green/Black)
5	⟷	10 (Z) (Yellow)
6	⟷	2 (/Z) (Yellow/Black)
7	⟷	14,16 (Red)
8	⟷	13,15 (Black)
9	⟷	Braid Sheld

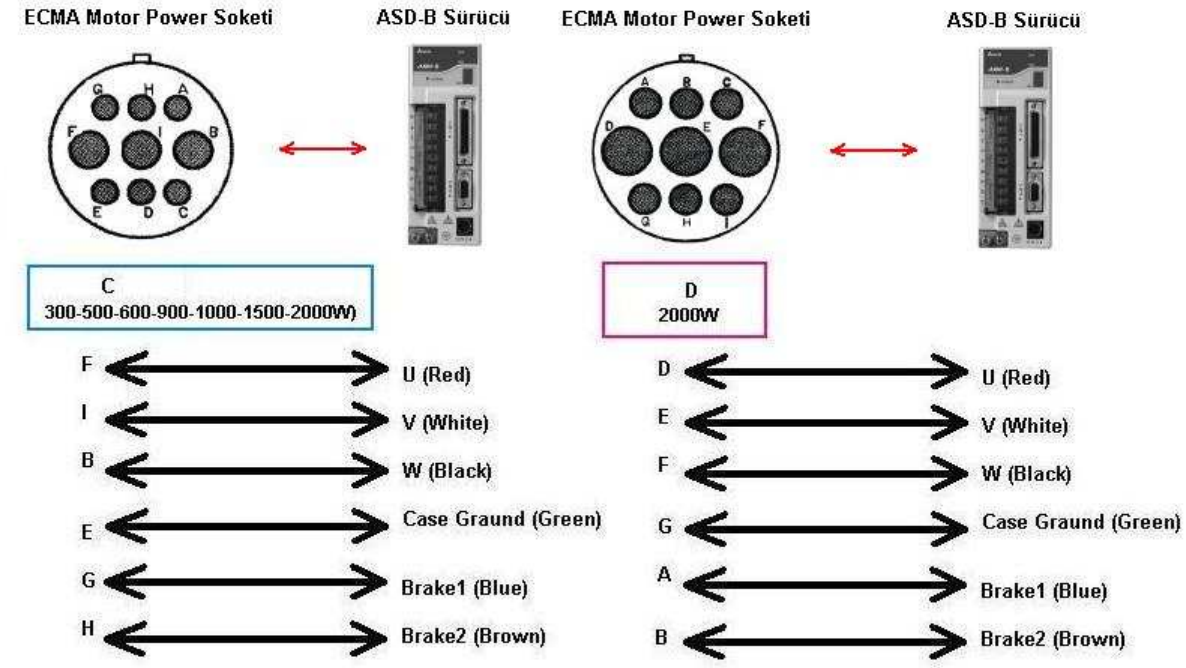


B
(1-1,5-2-3-4,5kW)

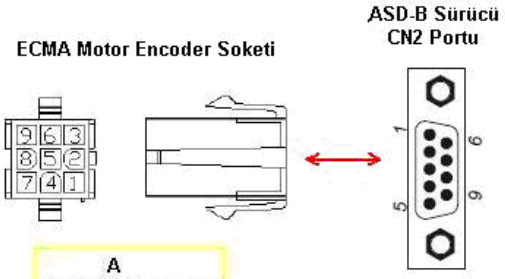
A	⟷	5 (A) (Blue)
B	⟷	4 (/A) (Blue/Black)
C	⟷	7 (B) (Green)
D	⟷	9 (/B) (Green/Black)
F	⟷	10 (Z) (Yellow)
G	⟷	2 (/Z) (Yellow/Black)
S	⟷	14,16 (Red)
R	⟷	13,15 (Black)
L	⟷	Braid Sheld

ASD-B SERİSİ MOTOR-SÜRÜCÜ BAĞLANTISI



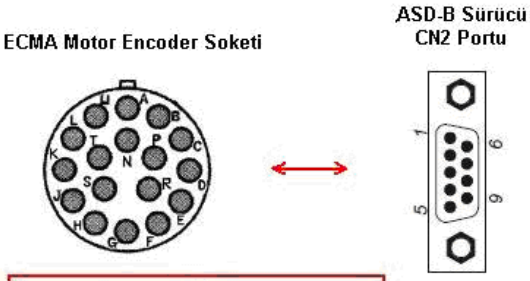


ASD-B SERİSİ ENCODER-SÜRÜCÜ BAĞLANTISI



A
(100-200-400-750W)

1	⟷	4 (A) (Black)
2	⟷	3 (B) (White)
3	⟷	9 (Z) (Orange)
4	⟷	5 (/A) (Black/Red)
5	⟷	2 (/B) (White/Red)
6	⟷	1 (/Z) (Orange/Red)
7	⟷	8 (Brown&Brown/White)
8	⟷	6,7 (Blue&Blue/White)
9	⟷	Braid Sheld



B
300-500-600-900-1000-1500-2000W)

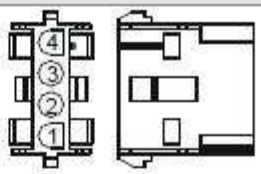
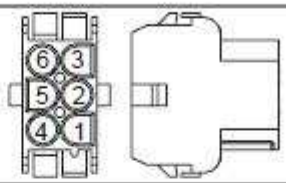
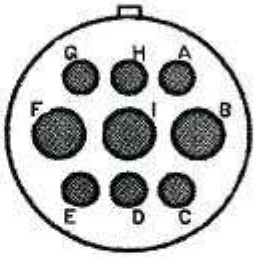
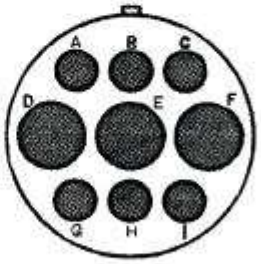
A	⟷	4 (A) (Blue)
B	⟷	5 (/A) (Blue/Black)
C	⟷	3 (B) (Green)
D	⟷	2 (/B) (Green/Black)
F	⟷	9 (Z) (Yellow)
G	⟷	1 (/Z) (Yellow/Black)
S	⟷	8 (Red&Red/White)
R	⟷	6,7 (Black&Black/White)
L	⟷	Braid Sheld

ASD-A&A+SERİSİ BAĞLANTI ŞEKİLLERİ

ASD-A&A+ Serisi Servo Sürücü Konnektör ve Terminal Bağlantıları

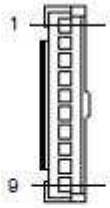
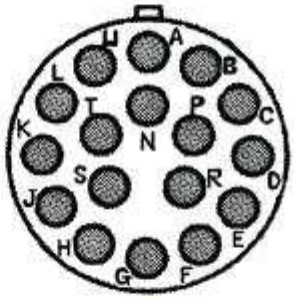
<table>
<tr><th>Terminal Identification</th><th>Terminal Description</th><th colspan="3">Notes</th></tr>
<tr><td>L1, L2</td><td>Control circuit terminal</td><td colspan="3">The servo Control Circuit requires an independent 220V single-phase VAC supply.</td></tr>
<tr><td>R, S, T</td><td>Main circuit terminal</td><td colspan="3">The Main Circuit Terminal is used to supply the servo with line power. If a single-phase supply, is used connect the R and S terminals to power. If 3-phase, connect all three R, S, & T terminals. To provide Control Circuit power two jumpers can be added from R and S to L1 and L2.</td></tr>
<tr><td rowspan="6">U, V, W
FG</td><td rowspan="6">Servo motor output</td><td colspan="3">Used to connect servo motor</td></tr>
<tr><td>Terminal Symbol</td><td>Wire Color</td><td></td></tr>
<tr><td>U</td><td>Red</td><td></td></tr>
<tr><td>V</td><td>White</td><td></td></tr>
<tr><td>W</td><td>Black</td><td></td></tr>
<tr><td>FG</td><td>Green</td><td></td></tr>
<tr><td rowspan="2">P, D, C</td><td rowspan="2">Regenerative resistor terminal</td><td>Internal resistor</td><td colspan="2">Ensure the circuit is closed between P and D, and the circuit is open between P and C.</td></tr>
<tr><td>External resistor</td><td colspan="2">Connect regenerative resistor to P and C, and ensure an open circuit between P and D.</td></tr>
<tr><td>P, N</td><td>P: Main circuit (+) terminal
N: Main circuit (-) terminal</td><td colspan="3">Braking unit is suitable for 2kW and above models.
When using braking unit, ensure to connect (+) terminal of the braking unit to P, main circuit (+) terminal of the servo drive, and connect (-) terminal of the braking unit to N, main circuit (-) terminal of the servo drive.
The braking unit is an optional part.
Usually, the braking unit is not necessary. It is used to absorb the large regenerative power that is generated when the external load is much greater than the motor torque.</td></tr>
<tr><td>⏚ two places</td><td>Ground terminal</td><td colspan="3">Used to connect grounding wire of power supply and servo motor.</td></tr>
<tr><td>CN1</td><td>I/O connector</td><td colspan="3">Used to connect external controllers. Please refer to section 3.3 for details.</td></tr>
<tr><td rowspan="12">CN2</td><td rowspan="12">Encoder connector</td><td colspan="3">Used to connect encoder of servo motor. Please refer to section 3.4 for details.</td></tr>
<tr><td colspan="2">ASDA-A Series</td><td></td></tr>
<tr><td>Terminal Symbol</td><td>Wire Color</td><td></td></tr>
<tr><td>A</td><td>Blue</td><td></td></tr>
<tr><td>/A</td><td>Blue/Black</td><td></td></tr>
<tr><td>B</td><td>Green</td><td></td></tr>
<tr><td>/B</td><td>Green/Black</td><td></td></tr>
<tr><td>Z</td><td>Yellow</td><td></td></tr>
<tr><td>/Z</td><td>Yellow/Black</td><td></td></tr>
<tr><td>+5V</td><td>Red</td><td></td></tr>
<tr><td>GND</td><td>Black</td><td></td></tr>
<tr><td rowspan="6">CN2</td><td rowspan="6">Encoder connector</td><td colspan="2">ASDA-A+ Series</td><td></td></tr>
<tr><td>Terminal Symbol</td><td>Wire Color</td><td></td></tr>
<tr><td>Line driver SD</td><td>Blue</td><td></td></tr>
<tr><td>Line driver /SD</td><td>Blue/Black</td><td></td></tr>
<tr><td>Vcc</td><td>Red</td><td></td></tr>
<tr><td>GND</td><td>Black</td><td></td></tr>
<tr><td>CN3</td><td>Communication connector</td><td colspan="3">Used to connect PC or keypad. Please refer to section 3.5 for details.</td></tr>
</table>

ASMT Motor Power Kablo Bağlantısı

Servo Drive Power Rating	Motor Part Number Description	U, V, W / Electromagnetic Brake Connector	Terminal Identification
100W	ASMT-01L250A□		A
200W	ASMT-02L250A□		
400W	ASMT-04L250A□		
750W	ASMT-07L250A□		
100W	ASMT-01L250B□		B
200W	ASMT-02L250B□		
400W	ASMT-04L250B□		
750W	ASMT-07L250B□		
1kW	ASMT-10L250□□	 20-18	C
	ASMT-10M250□□		
1.5kW	ASMT-15M250□□		
2kW	ASMT-20L250□□		
3kW	ASMT-30L250□□		
2kW	ASMT-20M250□□	 24-11	D
3kW	ASMT-30M250□□		
4.5kW	ECMA-E21835RD		
	ECMA-F21830□S		
	ECMA-F21845□S		

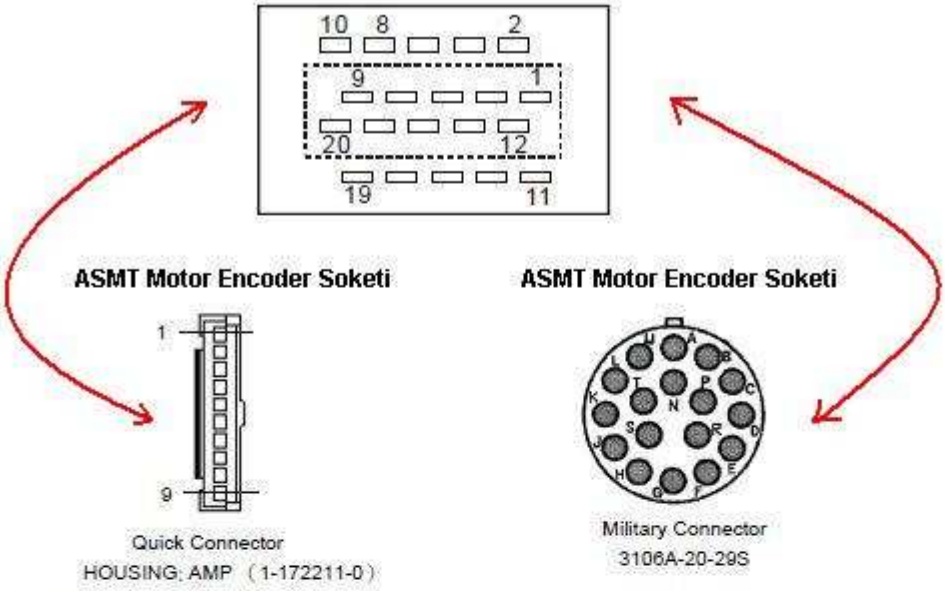
Terminal Identification	U (Red)	V (White)	W (Black)	CASE GROUND (Green)	BRAKE1 (Blue)	BRAKE2 (Brown)
A	1	2	3	4	-	-
B	1	2	3	4	5	6
C	F	I	B	E	G	H
D	D	E	F	G	A	B

ASMT Motor Encoder Bağlantısı

Servo Drive Capacity	Motor Model Name	Encoder Connector	Terminal Identification
100W	ASMT-01L250□□		A
200W	ASMT-02L250□□		
400W	ASMT-04L250□□		
750W	ASMT-07L250□□		
1kW	ASMT-10L250□□	 20-29 17-#16	B
	ASMT-10M250□□		
1.5kW	ASMT-15M250□□		
2kW	ASMT-20L250□□		
	ASMT-20M250□□		
3kW	ASMT-30L250□□		
	ASMT-30M250□□		
4.5kW	ECMA-E21835RD		
	ECMA-F21830□S		
	ECMA-F21845□S		

Terminal Identification	A (Blue)	/A (Blue/ Black)	B (Green)	/B (Green/ Black)	Z (Yellow)	/Z (Yellow/ Black)	5V (Red)	GND (Black)	BRAID SHELD
A	1	2	3	4	5	6	7	8	9
B	A	B	C	D	F	G	S	R	L

ASD-A&A+Serisi CN2 Portu



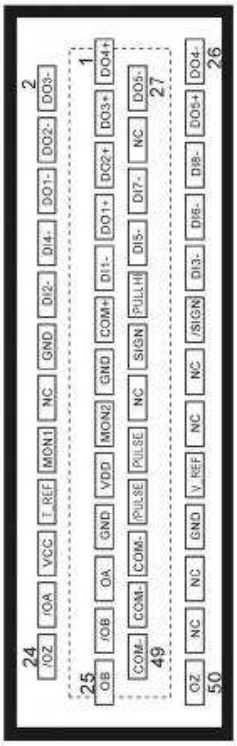
ASDA-A Series

PIN No.	Signal Name	Terminal Identification	Military Connector	Quick Connector	Description
2	/Z phase input	/Z	G	6	Encoder /Z phase output
4	/A phase input	/A	B	2	Encoder /A phase output
5	A phase input	A	A	1	Encoder A phase output
7	B phase input	B	C	3	Encoder B phase output
9	/B phase input	/B	D	4	Encoder /B phase output
10	Z phase input	Z	F	5	Encoder Z phase output
14, 16	Encoder power	+5V	S	7	Encoder 5V power
13, 15	Encoder power	GND	R	8	Grounding
	Shielding	Shielding	L	9	Shielding

ASDA-A+ Series

PIN No.	Signal Name	Terminal Identification	Military Connector	Quick Connector	Description
4	Line driver /SD	/SD	B	2	Encoder line driver /SD signal output
5	Line driver SD	SD	A	1	Encoder line driver SD signal output
14,16	Encoder power	+5V	S	7	Encoder 5V power
13,15	Encoder power	GND	R	8	Grounding
	Shielding	Shielding	L	9	Shielding

ASD-A&A+Serisi Servo Sürücü CN1 Portu



2	DO3-	Digital output
4	DO2-	Digital output
6	DO1-	Digital output
8	DI4-	Digital input
10	DI2-	Digital input
12	GND	Analog input signal ground
14	NC	No Connection
16	MON1	Analog monitor output 1
18	T_REF	Analog torque Input
20	VCC	+12V power output (for analog command)
22	/OA	Encoder /A pulse output
24	/OZ	Encoder /Z pulse output

1	DO4+	Digital output
3	DO3+	Digital output
5	DO2+	Digital output
7	DO1+	Digital output
9	DI1-	Digital input
11	COM+	Power input (12~24V)
13	GND	Analog input signal ground
15	MON2	Analog monitor output 2
17	VDD	+24V power output (for external I/O)
19	GND	Analog input signal ground
21	OA	Encoder A pulse output
23	/OB	Encoder /B pulse output
25	OB	Encoder B pulse output

27	DO5-	Digital output
29	/HPULSE	High-speed Pulse input (-)
31	DI7-	Digital input
33	DI5-	Digital input
35	PULL HI	Pulse applied power
37	SIGN	Position sign (+)
39	NC	No Connection
41	PULSE	Pulse input (+)
43	/PULSE	Pulse input (-)
45	COM-	VDD(24V) power ground
47	COM-	VDD(24V) power ground
49	COM-	VDD(24V) power ground

26	DO4-	Digital output
28	DO5+	Digital output
30	DI8-	Digital input
32	DI6-	Digital input
34	DI3-	Digital input
36	/SIGN	Position sign (-)
38	HPULSE	High-speed Pulse input (+)
40	/HSIGN	High-speed position sign (-)
42	V_REF	Analog speed input (+)
44	GND	Analog input signal ground
46	HSIGN	High-speed position sign (+)
48	OCZ	Encoder Z pulse Open-collector output
50	OZ	Encoder Z pulse Line-driver output

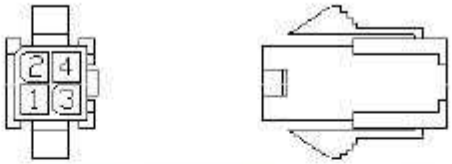
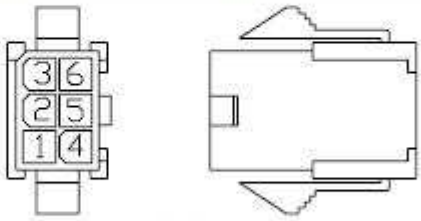
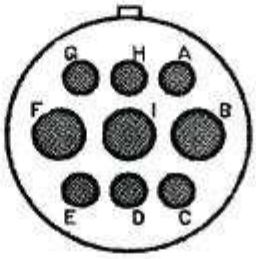
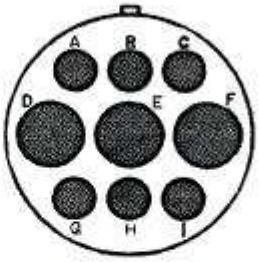
S1

ASD-B SERİSİ BAĞLANTI ŞEKİLLERİ

ASD-B Serisi Servo Sürücü Konnektör ve Terminal Bağlantıları

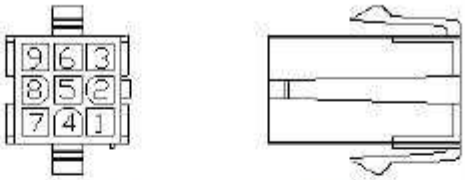
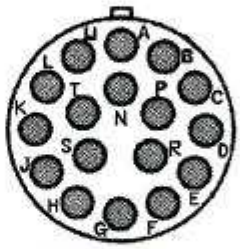
Terminal Identification	Terminal Description	Notes		
R, S, T	Main circuit terminal	The Main Circuit Terminal is used to supply the servo with line power. If a single-phase supply, is used connect the R and S terminals to power. If 3-phase, connect all three R, S, & T terminals.		
U, V, W FG	Servo motor output	Used to connect servo motor		
		Terminal Symbol	Wire Color	
		U	Red	
		V	White	
		W	Black	
		FG	Green	
P, D, C	Regenerative resistor terminal	Internal resistor	Ensure the circuit is closed between P and D, and the circuit is open between P and C.	
		External resistor	Connect regenerative resistor to P and C, and ensure an open circuit between P and D.	
		Only 750W and above servo drives are provided with built-in regenerative resistors. Ensure to leave the circuit closed between P and D when using a built-in (internal) regenerative resistor.		
⏚ two places	Ground terminal	Used to connect grounding wire of power supply and servo motor.		
CN1	I/O connector	Used to connect external controllers. Please refer to section 3.3 for details.		
CN2	Encoder connector	Used to connect encoder of servo motor. Please refer to section 3.4 for details.		
		Terminal Symbol	Wire Color	
		A	Black	
		/A	Black/Red	
		B	White	
		/B	White/Red	
		Z	Orange	
		/Z	Orange/Red	
		+5V	Brown & Brown/White	
		GND	Blue & Blue/White	
CN3	Communication connector	Used to connect PC or keypad. Please refer to section 3.5 for details.		

ECMA Motor Power Kablo Bağlantısı

Motor Model Name	U, V, W / Electromagnetic Brake Connector	Terminal Identification
ECMA-C30401□S (100W) ECMA-C30602□S (200W) ECMA-C30604□S (400W) ECMA-C30804□7 (400W) ECMA-C30807□S (750W)	 HOUSING: JOWLE (C4201H00-2*2PA)	A
ECMA-C30602□S (200W) ECMA-C30604□S (400W) ECMA-C30804□7 (400W) ECMA-C30807□S (750W)	 HOUSING: JOWLE (C4201H00-2*3PA)	B
ECMA-G31303□S (300W) ECMA-E31305□S (500W) ECMA-G31306□S (600W) ECMA-G31309□S (900W) ECMA-C31010□S (1000W) ECMA-E31310□S (1000W) ECMA-E31315□S (1500W) ECMA-C31020□S (2000W) ECMA-E31320□S (2000W)	 3106A-20-18S	C
ECMA-E31820□S (2000W)	 3106A-24-11S	D

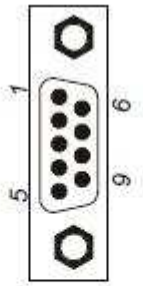
Terminal Identification	U (Red)	V (White)	W (Black)	CASE GROUND (Green)	BRAKE1	BRAKE2
A	1	2	3	4	-	-
B	1	2	4	5	3	6
C	F	I	B	E	G	H
D	D	E	F	G	A	B

ECMA Motor Encoder Bağlantısı

Motor Model Name	Encoder Connector	Terminal Identification
ECMA-C30401□S (100W) ECMA-C30602□S (200W) ECMA-C30604□S (400W) ECMA-C30804□7 (400W) ECMA-C30807□S (750W)	 HOUSING: AMP (1-172161-9)	A
ECMA-G31303□S (300W) ECMA-E31305□S (500W) ECMA-G31306□S (600W) ECMA-G31309□S (900W) ECMA-C31010□S (1000W) ECMA-E31310□S (1000W) ECMA-E31315□S (1500W) ECMA-C31020□S (2000W) ECMA-E31320□S (2000W) ECMA-E31820□S (2000W)	 3106A-20-29S	B

Terminal Identification AMP (1-172161-9)	A (Black)	/A (Black /Red)	B (White)	/B (White /Red)	Z (Orange)	/Z (Orange /Red)	+5V (Brown & Brown/White)	GND (Blue & Blue/White)	BRAID SHELD
A	1	4	2	5	3	6	7	8	9
Terminal Identification 3106A-20-29S	A (Blue)	/A (Blue /Black)	B (Green)	/B (Green /Black)	Z (Yellow)	/Z (Yellow /Black)	+5V (Red & Red /White)	GND (Black & Black /White)	BRAID SHELD
B	A	B	C	D	F	G	S	R	L

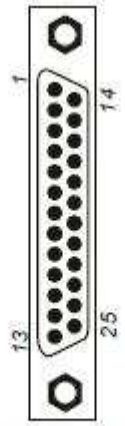
ASD-B Serisi Servo Sürücü
CN2 Portu



CN2 Terminal Signal Identification

Pin No	Signal Name	Terminal Identification	Description	Military Connector	Fast Connector	Wire Color
4	A phase input	A	Encoder A phase output	A	A1	Black
5	/A phase input	/A	Encoder /A phase output	B	A4	Black / Red
3	B phase input	B	Encoder B phase output	C	A2	White
2	/B phase input	/B	Encoder /B phase output	D	A5	White / Red
9	Z phase input	Z	Encoder Z phase output	F	A3	Orange
1	/Z phase input	/Z	Encoder /Z phase output	G	A6	Orange / Red
8	Encoder power	+5V	Encoder 5V power	S	A7	Brown & Brown / White
6, 7	Encoder power	GND	Grounding	R	A8	Blue & Blue / White
	Shielding	Shielding	Shielding	L	A9	Shielding

ASD-B Serisi CN1 Portu



CN1 Terminal Signal Identification

1	DO3+	Digital output
2	DO2+	Digital output
3	DI4-	Digital input
4	COM+	DI input common voltage rail
5	DI3-	Digital input
6	T-REF	Analog torque input (+)
7	VDD	+24Vpower output (for external I/O)
8	GND	Analog input signal ground
9	V-REF	Analog speed input (+)
10	OA	Encoder A pulse output
11	/OB	Encoder /B pulse output
12	OB	Encoder B pulse output
13	COM-	VDD(24V) power ground

14	DI6-	Digital input
15	DI5-	Digital input
16	DO1+	Digital output
17	DI1-	Digital input
18	DI2-	Digital input
19	/SIGN	Position sign (-)
20	SIGN	Position sign (+)
21	/PULSE	Pulse input (-)
22	PULSE	Pulse input (+)
23	/OA	Encoder /A pulse output
24	OZ	Encoder Z pulse output
25	/OZ	Encoder /Z pulse output