



THE BEST WAY TO FIND AN EXCELLENT DRIVE

**antrimon**  
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## **BRAKE FEATURES**

		<b>SKA DDR 090</b>	
Static Torque @20°C	Nm	2	4,5
Moment of Inertia	Kg cm <sup>2</sup>	0,050	0,220
Rated Current	A	0,46	0,5
Input Power	W	11	12
Engaging Time	ms	6	7
Release Time	ms	25	35
Operating Voltage		24 Vdc +6% - 10% Stabilized	

		<b>SKA DDR 148</b>	
Static Torque @20°C	Nm	18	36
Moment of Inertia	Kg cm <sup>2</sup>	1,9	6,21
Rated Current	A	1	1,08
Input Power	W	24	26
Engaging Time	ms	10	22
Release Time	ms	50	90
Operating Voltage		24 Vdc +6% - 10% Stabilized	

		<b>SKA DDR 245 - 335 - 430</b>	
Static Torque @20°C	Nm	72	
Moment of Inertia	Kg cm <sup>2</sup>	15,3	
Rated Current	A	1,66	
Input Power	W	40	
Engaging Time	ms	7	
Release Time	ms	140	
Operating Voltage		24 Vdc +6% - 10% Stabilized	



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## **THERMAL PROTECTION FEATURES**

### **PT 1000**

#### **Thermal protection features**

Type	PT 1000-R8/2-2F
Sensor	Sensor RTD (Platinum Resistance Temperature Detectors) according to DIN EN 60751
Temperature range	from -40 °C to 250 °C
Accuracy	$\Delta t = \pm (0,3 + 0,04t)$ °C

°C	Resistance ( $\Omega$ )
-40	843
-30	882
-20	922
-10	961
0	1000
10	1039
20	1078
30	1117
40	1155
50	1194
60	1232
70	1271
80	1309
90	1347
100	1385
110	1423
120	1461
130	1498
140	1536
150	1573
160	1611



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## WIRING MOTOR CONNECTIONS

### CONNECTORS WITH 29 CONNECTION and PT1000 on power

#### POWER CONNECTOR

#### FEEDBACK CONNECTOR

##### RESOLVER

##### HIPERFACE ABSOLUTE ENCODER

PIN	FUNCTION	PIN	FEEDBACK FUNCTION	PIN	FEEDBACK FUNCTION
1	Phase U	1	-	1	-
2	PE	2	-	2	-
3	Phase W	3	-	3	0 Vdc
4	Phase V	4	-	4	7-12 Vdc
A	Brake 24V (#)	5	/Sin	5	/Sin
B	Brake 0V (#)	6	Sin +	6	Sin
C	PT 1000 (+)	7	/Ref	7	/DATA
D	PT 1000 (-)	8	Ref	8	DATA
		9	-	9	-
(#) Optional		10	Shield	10	Shield
		11	/Cos	11	/Cos
		12	Cos	12	Cos
		13	-	13	-
		14	-	14	-
		15	-	15	-
		16	-	16	-
		17	-	17	-

### CONNECTORS WITH 29 CONNECTION and PT1000 on signal

#### POWER CONNECTOR

#### FEEDBACK CONNECTOR

##### RESOLVER

##### HIPERFACE ABSOLUTE ENCODER

PIN	FUNCTION	PIN	FEEDBACK FUNCTION	PIN	FEEDBACK FUNCTION
1	Phase U	1	-	1	-
2	PE	2	-	2	-
3	Phase W	3	-	3	0 Vdc
4	Phase V	4	-	4	7-12 Vdc
A	Brake 24V (#)	5	/Sin	5	/Sin
B	Brake 0V (#)	6	Sin +	6	Sin
C		7	/Ref	7	/DATA
D		8	Ref	8	DATA
		9	-	9	-
(#) Optional		10	Shield	10	Shield
		11	/Cos	11	/Cos
		12	Cos	12	Cos
		13	-	13	-
		14	-	14	-
		15	-	15	-
		16	PT 1000 (+)	16	PT 1000 (+)
		17	PT 1000 (-)	17	PT 1000 (-)



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## DYNAMIC LAYING CABLES SPECIFICATIONS

### SIGNAL CABLES for ALL SERVOMOTORS MODELS

MOTOR SIDE PIN	COLOUR	Signal free wire cable for general purpose	For cable order	
1	Grey/Pink		Length (mm)	
2	Red		5000	Order code
3	Blue1		10000	003108011110
4	Red1			003108011112
5	Yellow			
6	Green			
7	Grey			
8	Pink			
9	White/Green			
10	Shield2			
11	Black			
12	Violet			
13	Red/Blue			
14	Brown/Green			
15	Blue			
16	Brown			
17	White			





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## DYNAMIC LAYING CABLES SPECIFICATIONS

### SIGNAL CABLES for ALL SERVOMOTORS MODELS connection 29

MOTOR SIDE PIN	COLOUR	FUNCTION	DRIVE SIDE PIN	Resolver signal SUMITOMO cable for FLEXI PRO	For cable order	
5	Black/Blue	RefSin	19		Lenght (mm)	Order code
6	Blue	Sin	6		5000	003108011100
7	Black/Green	Ref-	21		10000	003108011102
8	Green	Ref+	8			
10	Shield	SHIELD	26			
11	Black/Red	RefCos	20			
12	Red	Cos	7			
16	White	PT 1000 (+)	12			
17	Black/White	PT 1000 (-)	25			

MOTOR SIDE PIN	COLOUR	FUNCTION	DRIVE SIDE PIN	Hiperface absolute encoder signal SUMITOMO cable for FLEXI PRO	For cable order	
17	White	PT 1000 (+)	25		Lenght (mm)	Order code
16	Brown	PT 1000 (-)	12		3000	003108011123
12	Pink	Cos	10		5000	003108020152
11	Grey	Cos-	23		10000	003108020153
10	Shield2	SHIELD	26			
8	Violet	Data+	1			
7	Black	Data-	14			
6	Green	Sin+	9			
5	Yellow	Sin-	22			
4	Red1	7-12V	18			
3	Blue1	GND	24			



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## DYNAMIC LAYING CABLES SPECIFICATIONS

### POWER CABLES

FUNCTION	PIN/M23	Power free wire cable	SKA DDR 090 - 148 - 245		SKA DDR 335 - 430	
Phase U	1		Lenght (mm)	Order code	Lenght (mm)	Order code
Phase V	4		3000	003108007314	3000	003108005080
Phase W	3		5000	003108007302	5000	003108005104
PE	2		10000	003108007316	10000	003108005106
N.C.	A					
N.C.	B					
PT 1000 (+)	C					
PT 1000 (-)	D					

Power free wire cable with M23 90° connector		SKA DDR 090 - 148 - 245		SKA DDR 335 - 430	
	Lenght (mm)	Order code	Lenght (mm)	Order code	
	3000	003108020075	3000	003108005108	
	5000	003108020076	5000	003108020014	
	10000	003108020077	10000	003108005110	

### FLYING CONNECTORS M23

Straight power connector pin included BSTA108NN00580236000 + 4 PIN 60.003.11 FM/2mm CRIMP,0,35-2,5 SPRING + 4 PIN 60.001.11 FM/1mm CRIMP,0,14-1 SPRING	order code 007117000472	
Straight signal connenctor pin included ASTA014NN00410235000 17p/FM + 17 PIN 60.011.11 FM/1mm CRIMP,0,14-1	order code 007117000462	
90° power connector pin included BSDA108NN00420200000 + 4 PIN 60.003.11 FM/2mm CRIMP,0,35-2,5 SPRING + 4 PIN 60.001.11 FM/1mm CRIMP,0,14-1 SPRING	order code 007117002055	
90° signal connenctor pin included ASDA014NN00480150000 + 17 PIN 60.011.11 FM/1mm CRIMP,0,14-1	order code 007117002056	