

STATIC CABLES SPECIFICATIONS

STATIC POWER CABLES for TC-X 40 ONLY

PIN/AMP	COLOUR	FUNCTION	Power free wire cable for general purpose	For cable order	
1	Grey	Phase U		Length (mm)	Order code
2	Black	Phase V		3000	003108010620
3	Brown	Phase W		5000	003108010622
4	Yellow/Green + Shield	PE		10000	003108010624
5	Red	Brake +			
6	Black	Brake -			


STATIC SIGNAL CABLES for TC-X 40 ONLY

PIN/AMP	COLOUR	FUNCTION	Signal free wire cable general purpose	For cable order	
1	Green	According to feedback		Length (mm)	Order code
2	Yellow			3000	003108010556
3	Violet			5000	003108010558
4	Black			10000	003108010560
5	Pink				
6	Gray				
7	Yellow/White				
8	Yellow/Brown				
9	White/Green				
10	Brown/Green				
11	Grey/Pink				
12	Red/Blu				
13	Brown				
14	White				
15	Shield (Black)				


PIN/AMP	FUNCTION	PIN/SUMITOMO 26	R1 resolver signal SUMITOMO cable for FLEXI PRO	For cable order	
1	SIN +	6		Length (mm)	Order code
2	SIN -	19		3000	003108020035
3	COS +	7		5000	003108020036
4	COS -	20		10000	003108020037
5	REF +	8			
6	REF -	21			
7	-	-			
8	-	-			
9	-	-			
10	-	-			
11	-	-			
12	-	-			
13	-	-			
14	-	-			
15	Shield	26			


STATIC CABLES SPECIFICATIONS

STATIC POWER CABLES for ALL OTHER MODELS

PIN/M23	COLOUR	FUNCTION	Power free wire cable for general purpose	For cable order	
1	Gray	According to G2 or H2 connection		Lenght (mm)	Order code
2	Yellow/Green + Shield			3000	003108010650
3	Brown			5000	003108010652
4	Black			10000	003108010654
A	Red				
B	Black				
C	White				
D	Blu				


STATIC SIGNAL CABLES for ALL OTHER MODELS

PIN/M23	COLOUR	FUNCTION	Signal free wire cable for general purpose	For cable order	
1	Gray/Pink	According to feedback		Lenght (mm)	Order code
2	Yellow/White			3000	003108010500
3	White			5000	003108010502
4	Brown			10000	003108010504
5	Yellow				
6	Green				
7	Grey				
8	Pink				
9	White/Green				
10	Shield – Wire				
11	Black				
12	Violet				
13	Red/Blue				
14	Brown/Green				
15	Yellow/Brown				
16	Red				
17	Blue				


PIN/M23	FUNCTION	PIN/SUMITOMO 26	R1 resolver signal SUMITOMO cable for FLEXI PRO	For cable order	
1	-	-		Lenght (mm)	Order code
2	-	-		3000	003108020044
3	-	-		5000	003108020045
4	-	-		10000	003108020046
5	SIN -	19			
6	SIN +	6			
7	REF -	21			
8	REF +	8			
9	-	-			
10	Shield	26			
11	COS -	20			
12	COS +	7			
13	-	-			
14	-	-			
15	-	-			
16	PT 1000 (+)	12			
17	PT 1000 (-)	25			

DYNAMIC LAYING CABLES SPECIFICATIONS

POWER CABLES for ALL SERVOMOTORS MODELS up to 14A

MOTOR SIDE PIN	COLOUR	Power free wire cable for general purpose	For cable order	
1	Black1		Lenght (mm)	Order code
2	Green/Yellow		5000	003108007524
3	Black3		10000	003108020011
4	Black2			
A	Black5			
B	Black6			
C	Black7			
D	Black8			

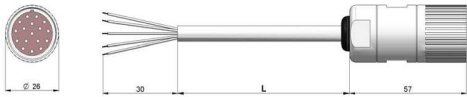
POWER CABLES for ALL SERVOMOTORS MODELS more than 14A and up to 30A


MOTOR SIDE PIN	COLOUR	Power free wire cable for general purpose	For cable order	
1	Black1		Lenght (mm)	Order code
2	Green/Yellow		3000	003108005080
3	Black3		5000	003108005104
4	Black2		10000	003108005106
A	Black5			
B	Black6			
C	Black7			
D	Black8			

SEE IT BEFORE IT HAPPENS

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			Lenght (mm)	Order code
2	Red			5000	003108011110
3	Blue1			10000	003108011112
4	Red1				
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				

MOTOR SIDE PIN	COLOUR	FUNCTION	DRIVE SIDE PIN	R1 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			

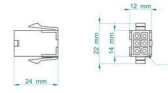
SEE IT BEFORE IT HAPPENS

CONNECTOR SPECIFICATIONS

FLYING CONNECTORS AMP for TC-X 040 ONLY

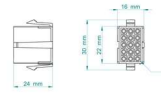
Power Connector
AMP 172160-1 + 6 PIN 171637-1

order code 007117000304



Signal connector
AMP 172163-1 + 15 PIN 170361-1

order code 007117000306



FLYING CONNECTORS M23 for ALL OTHE MODELS

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



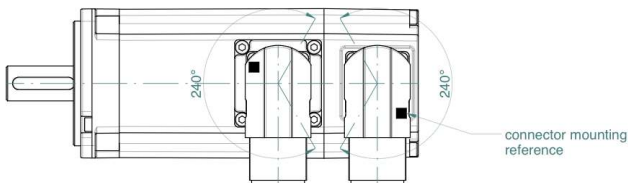
Signal connector pin included
ASTA014NN00410235000 17p/FM + 17 PIN 60.011.11
FM/1mm CRIMP.0,14-1

order code 007117000462

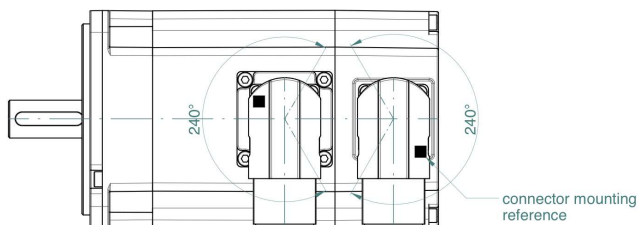


90° TURNABLE CONNECTORS SPECIFICATIONS

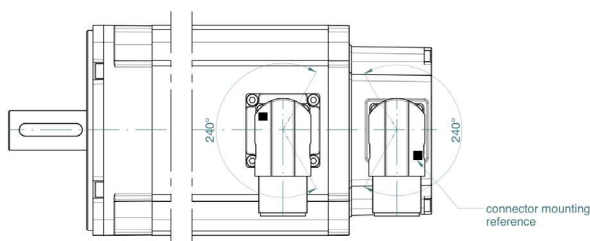
TETRA COMPACT-X 60



TETRA COMPACT-X 80



TETRA COMPACT-X100



SEE IT BEFORE IT HAPPENS

**MOTOR
POWER**
COMPANY

The FLEXI PRO series features a high-performance digital servo drive offering advanced functionality, high power density and seamless commissioning in a superior package. The innovative hardware design and software algorithms boast outstanding performance in one of the smallest footprints in the market.

FEATURES

- > **MULTIFEEDBACK**
- > **DIGITAL I/O: 11 DIGITAL INPUT AND 6 OUTPUT CUSTOMIZABLE WITH SEVERAL BUILT-IN FUNCTIONS AND INTERNAL SCRIPT**
- > **CONTROL: HD ADVANCED CONTROL LOOP WITH ADAPTIVE GAINS**
- > **SERVO MODES: TORQUE, VELOCITY AND POSITION WITH S-CURVE PROFILE**
- > **STO SIL 2**
- > **INTEGRATED SUPPORT FOR EXTERNAL BRAKING RESISTOR**
- > **COMPLETE MOTOR DATABASE**

BENEFITS

- > **INTELLIGENT AUTO-TUNING - MINIMIZES POSITION ERROR AND SETTLING TIME TO ALMOST ZERO**

Engineering experience and expertise has been implemented in a sophisticated Auto-Tuning function that performs optimal configurations for a difference-making performance

- > **NEW CURRENT LOOP DESIGN - ACHIEVES AN INDUSTRY-LEADING FREQUENCY RESPONSE OF UP TO 3.0 KHZ**

Rapid control loop sample rates and flexible filtering options provide a faster response, and ensure maximum machine accuracy and throughput

- > **INNOVATIVE ANTI-VIBRATION ALGORITHM - ELIMINATES MECHANICAL RESONANCE**

An active-non-linear algorithm eliminates vibration in highly flexible resonant systems. Commissioning is easy since only few gain parameters are required



INTERFACE

- > **USB WITH DAISY CHAIN CAPABILITY**
- > **PULSE & DIRECTION**
- > **ANALOG VELOCITY AND TORQUE COMMAND $\pm 10V$**

CANopen

EtherCAT

FLEXIBLE AND COMPREHENSIVE

PRODUCT DATA

FEATURE	UNITS	FPRO 1D5	FPRO 003	FPRO 4D5	FPRO 006	FPRO 008	FPRO 010	FPRO 013	FPRO 020	FPRO 024	FPRO 003	FPRO 006	FPRO 012	FPRO 024	FPRO 030	
Input Voltage	VAC	120/240 VAC Single Phase			240 VAC Single or Three Phase				120/240 VAC Three Phase			400/480 VAC Tree Phase				
Max Continuous power output	W	350	700	1000	1400	1800	2300	3000	4500	5500	1100	2200	4400	9000	11000	
Efficiency at rated Power	%	> 90														
Auxiliary Supply Voltage		120 .. 240 Vac										24 Vdc				
Continuous current rms	A rms	1,5	3	4,5	6	8	10	13	20	24	3	6	12	24	30	
Peak current	A rms	4,5	9	18	18	28	28	28	48	48	9	18	24	72	90	
Ambient Operating Temperature	°C	0 to + 45														
Maximum Humidity	%	90% not condensing														
Vibration		0.6G 10-60 Hz														
Shock		1 G														
Mounting Method		Wall Mount														
Dimensions	WxDxH mm	43x144x150			55x167x150			62x182x170			117x194x234		110x193x163		FPRO 012 117x194x234	
		FPRO 024 - FPRO 030 147x209x353														
Weight	Kg	0,7	0,75	0,97	0,97	1,15	1,15	1,15	3,2	3,2	2,1	2,1	3,2	10,5	10,5	

FLEXI PRO SUITE

> SIMPLIFIES SETUP, TESTING AND TUNING

User-friendly FLEXI SUITE software provides step-by-step guidance through the setup and tuning process. Setup and testing are intuitive thanks to auto-tuning functions and graphic representations of control loops

