

Lined area for notes.





### OPTIONS



### DESCRIPTION

2-phase, high-torque stepper motor in size NEMA 11 (28 mm) and with a step angle (full step) of 1.8° in protection class IP65 (except for shaft outlet). This motor will work as a replacement for the standard motor ST2818 as they have the same flange size.

### VERSIONS

Type	Current per Winding A/Winding	Holding Torque Ncm	Resistance per Winding Ohm	Inductance per Winding mH	Rotor Inertia gcm <sup>2</sup>	Weight kg	Length „A“ mm
AS2818S0604	0.67	7.1	5.6	4	9	0.13	51
AS2818L0604	0.67	12.7	9.2	7.2	18	0.22	70

### ORDER IDENTIFIER

AS2818S0604



### ACCESSORIES

- ZK-M12-5-2M-1-PUR-S M12 Cable
- ZK-M12-5-2M-2-PUR-S M12 Cable
- ZK-M12-5-5M-1-PUR-S M12 Cable
- ZK-M12-5-5M-2-PUR-S M12 Cable
- ZK-M12-8-2M-1-PUR-S M12 Cable
- ZK-M12-8-2M-2-PUR-S M12 Cable
- ZK-M12-8-5M-1-PUR-S M12 Cable
- ZK-M12-8-5M-2-PUR-S M12 Cable

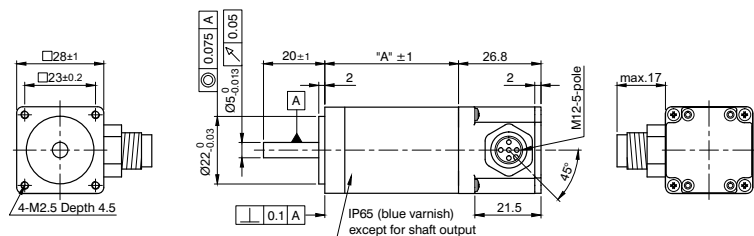
### DIMENSIONS (IN MM)

AS2818

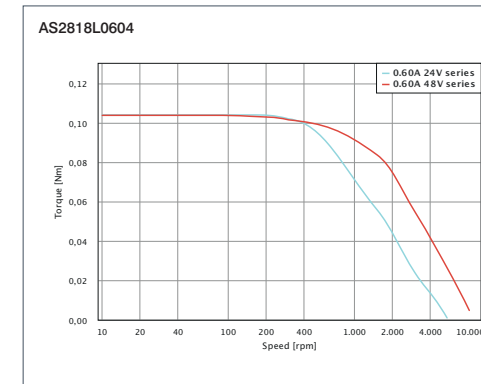
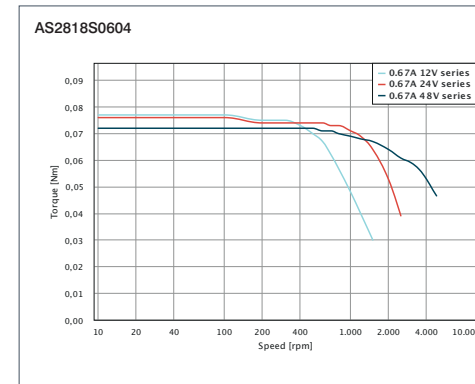
Front view and mounting

Side view

Rear view



### TORQUE CURVES



# AS4118

Stepper Motor with M12 Connector in Protection Class IP65



### OPTIONS



### DESCRIPTION

2-phase, high-torque stepper motor in size NEMA 17 (42 mm) and with a step angle (full step) of 1.8° in protection class IP65 (except for shaft outlet). This motor will work as a replacement for the standard motor ST4118 as they have the same flange size.

### VERSIONS

Type	Current per Winding A/Winding	Holding Torque Ncm	Resistance per Winding Ohm	Inductance per Winding mH	Rotor Inertia gcm <sup>2</sup>	Weight kg	Length „A“ mm	Encoder Type V	Brake Torque Nm
AS4118L1804	1.8	50	1.75	3.3	82	0.34	70.4		
AS4118L1804-E	1.8	50	1.75	3.3	82	0.34	70.4	5	
AS4118L1804-EB	1.8	50	1.75	3.3	82	0.42	106.4	5	0.4
AS4118L1804-ENM24	1.8	50	1.75	3.3	82	0.34	70.4	24	

### ORDER IDENTIFIER

**AS4118L1804-**  
 E = with Encoder  
 EB = with Encoder and Bremse  
 ENM24 = with 24V Encoder

### ACCESSORIES

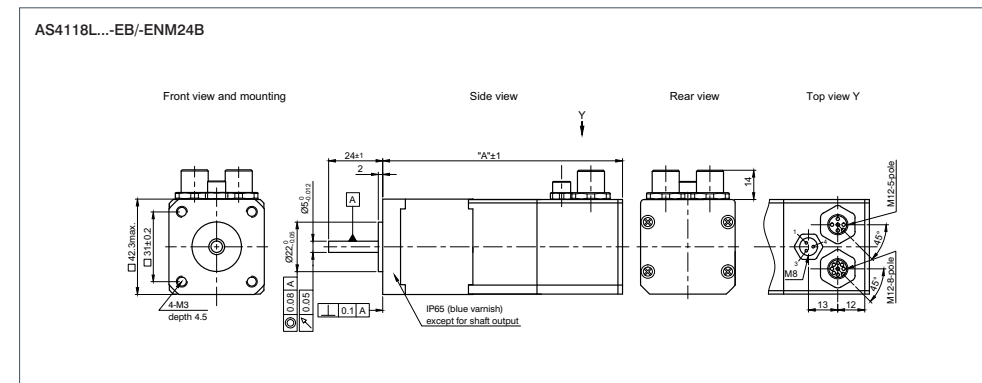
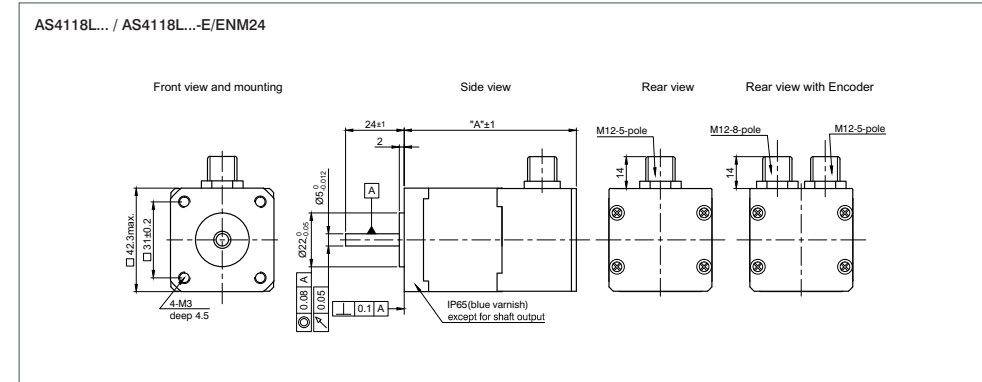
**ZK-M12-5-2M-1-PUR-S** M12 Cable  
**ZK-M12-5-2M-2-PUR-S** M12 Cable  
**ZK-M12-5-5M-1-PUR-S** M12 Cable  
**ZK-M12-5-5M-2-PUR-S** M12 Cable  
**ZK-M12-8-2M-1-PUR-S** M12 Cable  
**ZK-M12-8-2M-2-PUR-S** M12 Cable  
**ZK-M12-8-5M-1-PUR-S** M12 Cable  
**ZK-M12-8-5M-2-PUR-S** M12 Cable

# AS4118

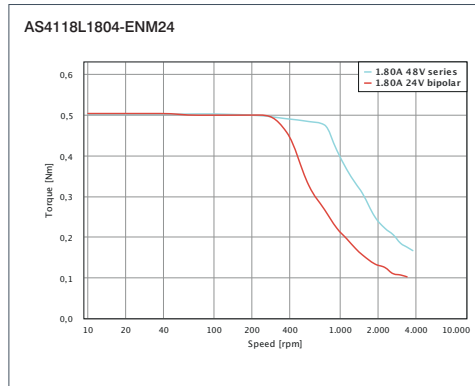
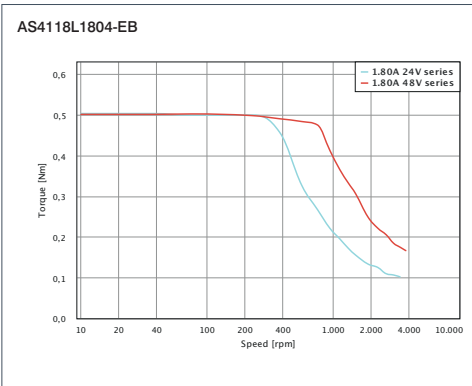
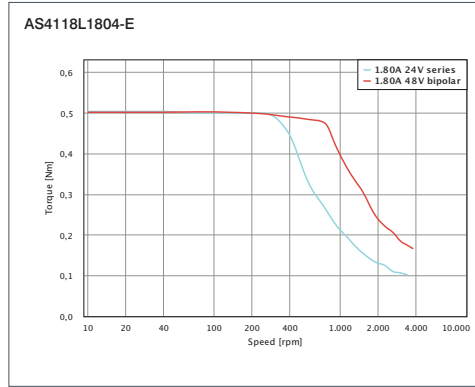
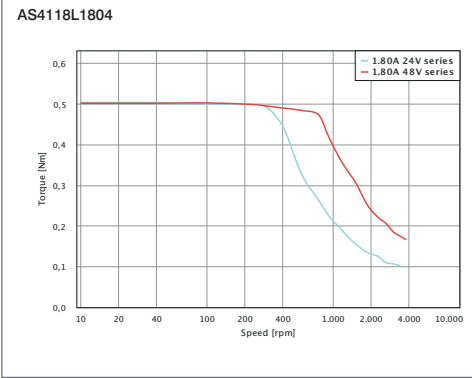
Stepper Motor with M12 Connector in Protection Class IP65



### DIMENSIONS (IN MM)



### TORQUE CURVES



Notes section with horizontal dotted lines for writing.



### OPTIONS



### DESCRIPTION

2-phase, high-torque stepper motor in size NEMA 23 (56 mm) and with a step angle (full step) of 1.8° in protection class IP65 (except for shaft outlet). This motor will work as a replacement for the standard motor ST5918 as they have the same flange size.

### VERSIONS

Type	Current per Winding A/Winding	Holding Torque Ncm	Resistance per Winding Ohm	Inductance per Winding mH	Rotor Inertia gcm <sup>2</sup>	Weight kg	Length „A“ mm	Encoder Type V	Brake Torque Nm
AS5918S2804	2.83	85	0.75	2.6	230	0.8	73		
AS5918S2804-E	2.83	85	0.75	2.6	230	0.8	73	5	
AS5918M2804	2.83	105	0.85	3.6	300	0.85	77		
AS5918M2804-E	2.83	105	0.85	3.6	300	0.85	77	5	
AS5918L4204	4.2	198	0.5	1.9	480	1.14	98		
AS5918L4204-E	4.2	198	0.5	1.9	480	1.14	98	5	
AS5918L4204-EB	4.2	198	0.5	1.9	480	1.33	138	5	1
AS5918L4204-ENM24	4.2	198	0.5	1.9	480	1	98	24	
AS5918L4204-ENM24B	4.2	198	0.5	1.9	480	1	138	24	1

### ORDER IDENTIFIER

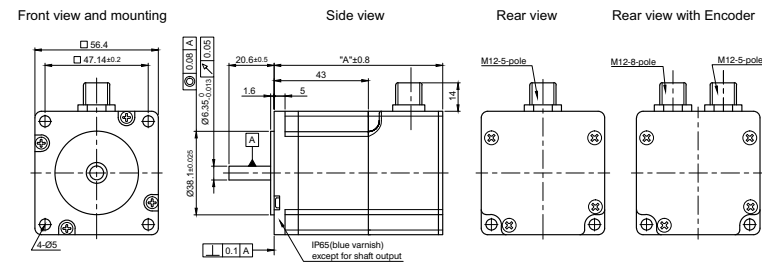
**AS5918S2804-**  
 E = with Encoder  
 EB = with Encoder and Brake  
 ENM24 = with 24V Encoder  
 ENM24B = with 24V Encoder and Brake

### ACCESSORIES

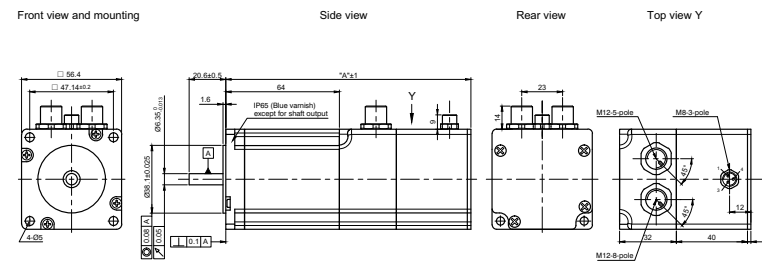
**ZK-M12-5-2M-1-PUR-S** M12 Cable  
**ZK-M12-5-2M-2-PUR-S** M12 Cable  
**ZK-M12-5-5M-1-PUR-S** M12 Cable  
**ZK-M12-5-5M-2-PUR-S** M12 Cable  
**ZK-M12-8-2M-1-PUR-S** M12 Cable  
**ZK-M12-8-2M-2-PUR-S** M12 Cable  
**ZK-M12-8-5M-1-PUR-S** M12 Cable  
**ZK-M12-8-5M-2-PUR-S** M12 Cable

### DIMENSIONS (IN MM)

AS5918 / AS5918...E/ENM24

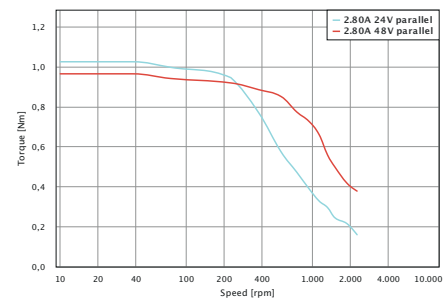


AS5918L...EB/ENM24B

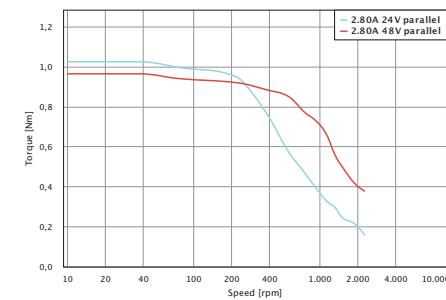


### TORQUE CURVES

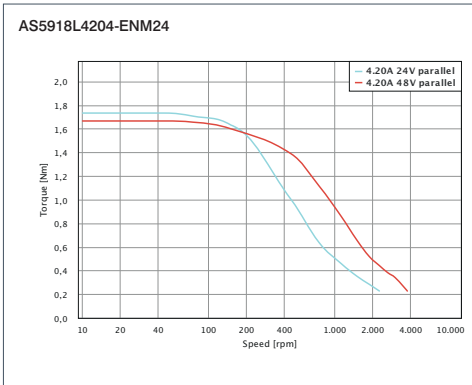
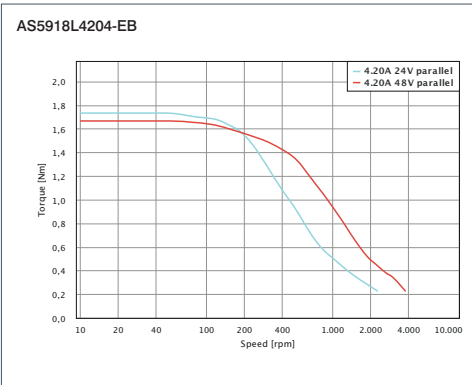
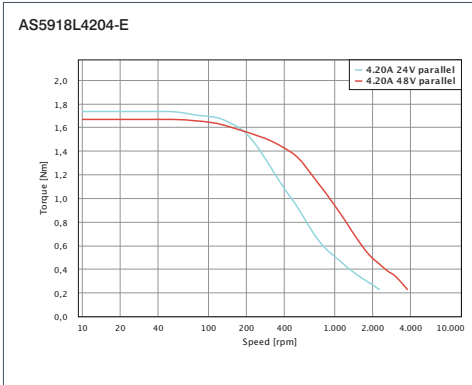
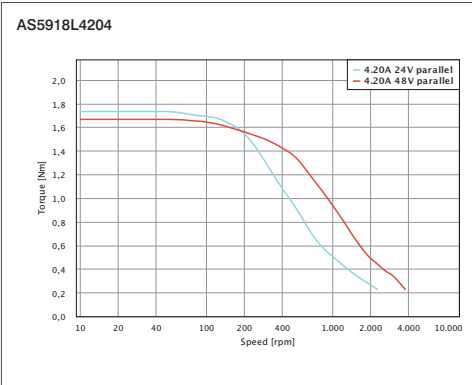
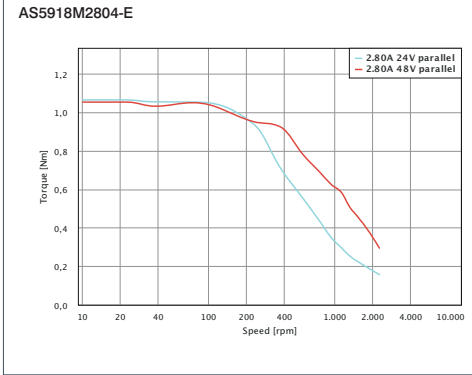
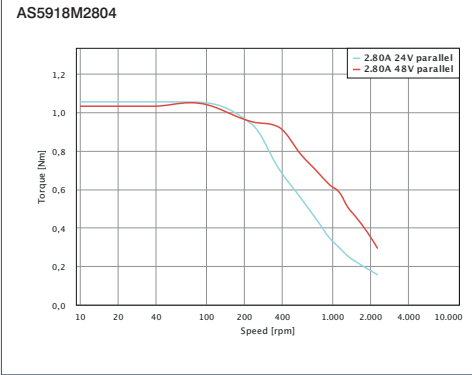
AS5918S2804



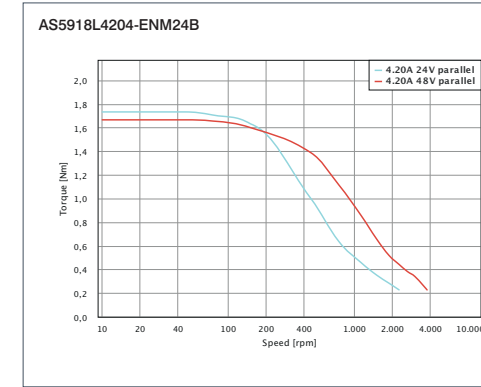
AS5918S2804-E



## TORQUE CURVES



## TORQUE CURVES



# AS8918

Stepper Motor with M12/M16 Connector in Protection Class IP65



## OPTIONS



## DESCRIPTION

2-phase, high-torque stepper motor in size NEMA 34 (86 mm) and with a step angle (full step) of 1.8° in protection class IP65. This motor will work as a replacement for the standard motor ST8918 as they have the same flange size.

## VERSIONS

Type	Current per Winding A/Winding	Holding Torque Ncm	Resistance per Winding Ohm	Inductance per Winding mH	Rotor Inertia gcm <sup>2</sup>	Weight kg	Length „A“ mm	Encoder Type V	Brake Torque Nm
AS8918L9504-E24	9.5	933	0.26	2.7	300	4.35	148	24	
AS8918L9504-E24B	9.5	933	0.26	2.7	300	5	218	24	4

## ORDER IDENTIFIER

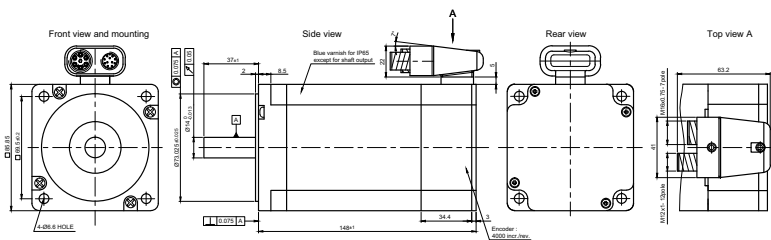
**AS8918L9504-**  
E24 = with 24V Encoder  
E24B = with 24V Encoder and Brake

## ACCESSORIES

**ZK-TW-7-2M** M16 (TW) Cable  
**ZK-M12-12-2M-1-PUR-S** M12 Cable  
**ZK-M12-12-2M-2-PUR-S** M12 Cable

## DIMENSIONS (IN MM)

AS8918L9504-E24



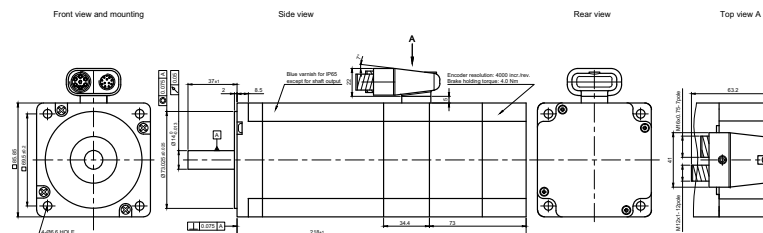
# AS8918

Stepper Motor with M12/M16 Connector in Protection Class IP65



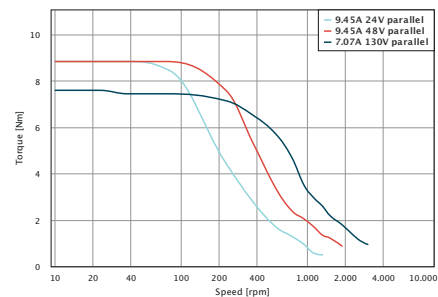
## DIMENSIONS (IN MM)

AS8918L9504-E24B

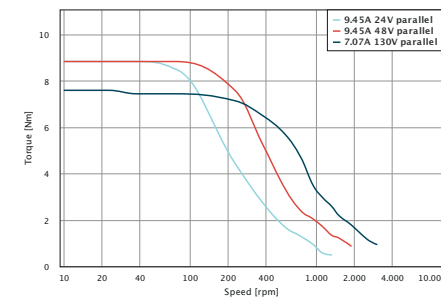


## TORQUE CURVES

AS8918L9504-E24



AS8918L9504-E24B





### OPTIONS



### DESCRIPTION

2-phase, high-torque stepper motor in size NEMA 34 (89 mm) and with a step angle (full step) of 1.8° in protection class IP65 (except for shaft outlet). This motor will work as a replacement for the standard motor ST8918 as they have the same flange size.

### VERSIONS

Type	Current per Winding A/Winding	Holding Torque Ncm	Resistance per Winding Ohm	Inductance per Winding mH	Rotor Inertia gcm²	Weight kg	Length „A“ mm	Encoder Type V
AP8918M6404	6.4	594	0.33	3	2700	3.4	118	
AP8918M6404-E	6.4	594	0.33	3	3000	3.5	118	5
AP8918L9504	9.5	933	0.26	2.7	3000	4.6	148	
AP8918L9504-E	9.5	933	0.26	2.7	3000	4.7	148	5

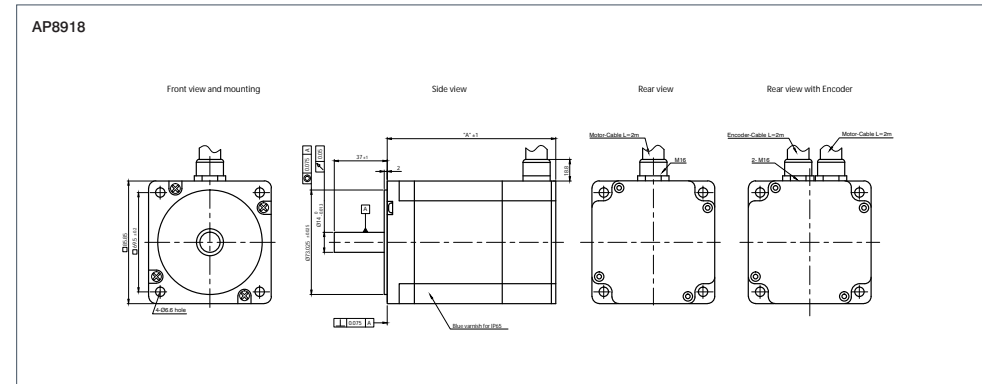
### ORDER IDENTIFIER

**AP8918M6404-**  
E = with Encoder

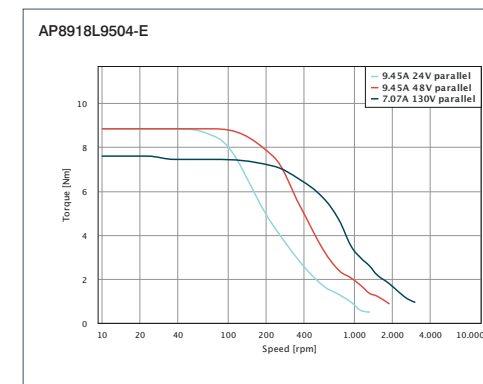
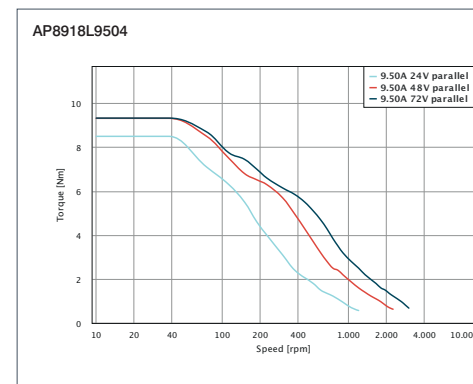
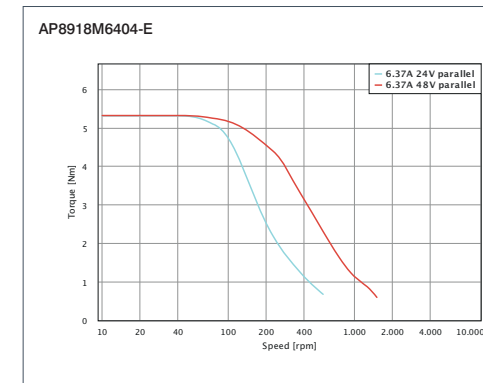
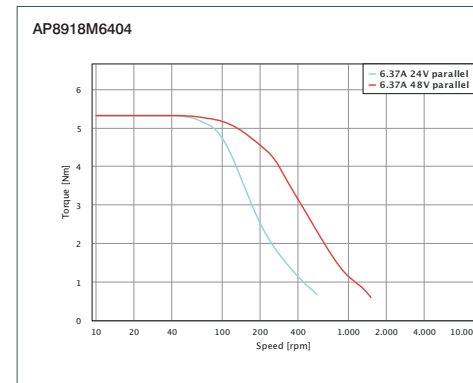
### ACCESSORIES

- ZK-M12-5-2M-1-PUR-S M12 Cable
- ZK-M12-5-2M-2-PUR-S M12 Cable
- ZK-M12-5-5M-1-PUR-S M12 Cable
- ZK-M12-5-5M-2-PUR-S M12 Cable
- ZK-M12-8-2M-1-PUR-S M12 Cable
- ZK-M12-8-2M-2-PUR-S M12 Cable
- ZK-M12-8-5M-1-PUR-S M12 Cable
- ZK-M12-8-5M-2-PUR-S M12 Cable

### DIMENSIONS (IN MM)



### TORQUE CURVES





Distributeur Nederland:

Motion Control Systems b.v.  
Specialist in Motion control.  
Touwslagerij 19 4762AT Zevenbergen  
Tel: 0168 325077 - Fax 0168 328134  
info@motion.nl - www.motion.nl

Product advies en technische info: [service@motion.nl](mailto:service@motion.nl)  
Bestellingen doorsturen naar : [sales@motion.nl](mailto:sales@motion.nl)

**EUROPE:**

Nanotec Electronic GmbH & Co. KG  
Kapellenstraße 6  
85622 Feldkirchen/Munich, Germany

Phone: +49 (0) 89 900 686-0  
Fax: +49 (0) 89 900 686-50  
E-mail: [info@nanotec.de](mailto:info@nanotec.de)

**NORTH AMERICA:**

Nanotec Electronic, U.S., Inc.  
98 Sheridan Avenue  
Medford, MA 02155 USA

Phone: +1 781 219 33 43  
Fax: +1 781 498 13 44  
E-mail: [info@us.nanotec.com](mailto:info@us.nanotec.com)

**ASIA:**

Nanotec Electronics (ChangZhou) Co., Ltd.  
Building 1,18 QingJiang Road, New District  
ChangZhou City, JiangSu Province  
P.R. China 213022

Phone: +86 519 830 211 77  
Fax: +86 519 830 211 17  
E-mail: [info@cn.nanotec.com](mailto:info@cn.nanotec.com)