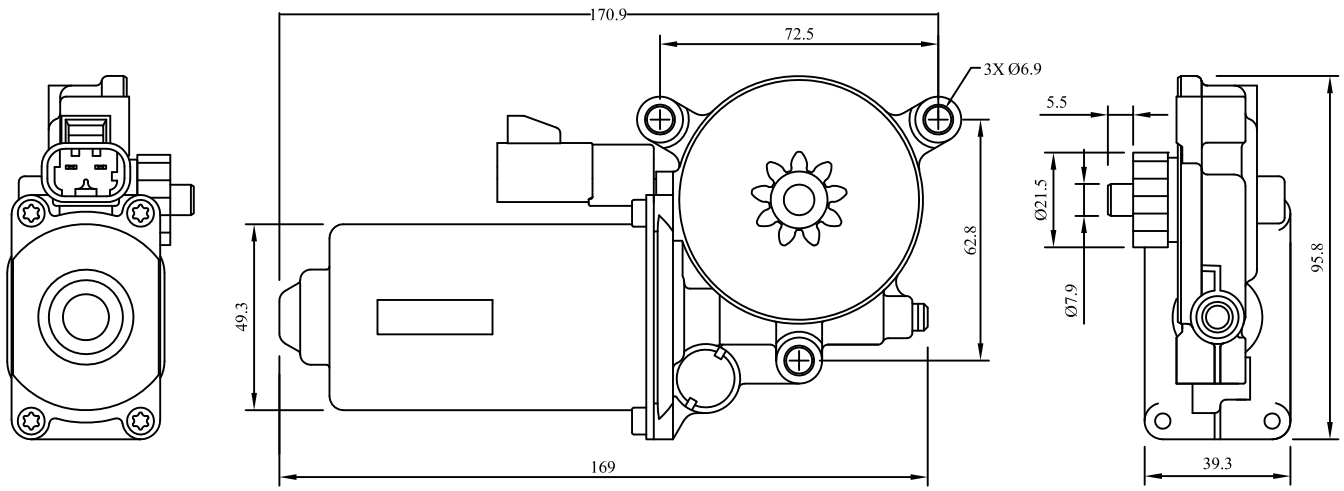
Phase 3 Motor Part# 589261



All dimensions in millimeters

Opposite Hand: 589262

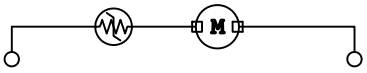
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	18 Amps
Output Gear Type:	=	9-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	21.5 mm
Output Shaft Lenght:	=	5.5 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12129487
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

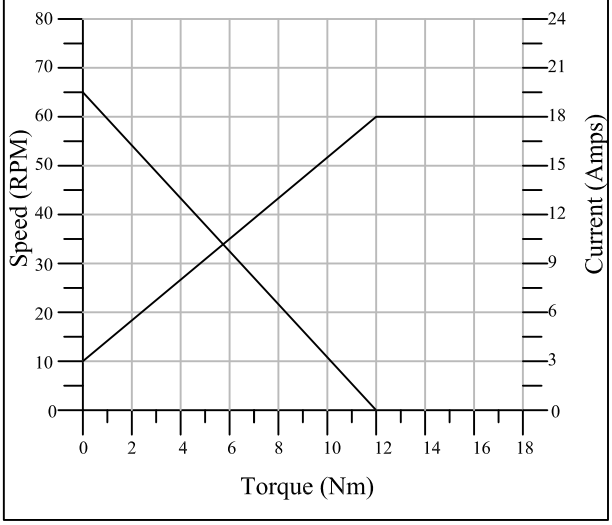
Schematic

1 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.

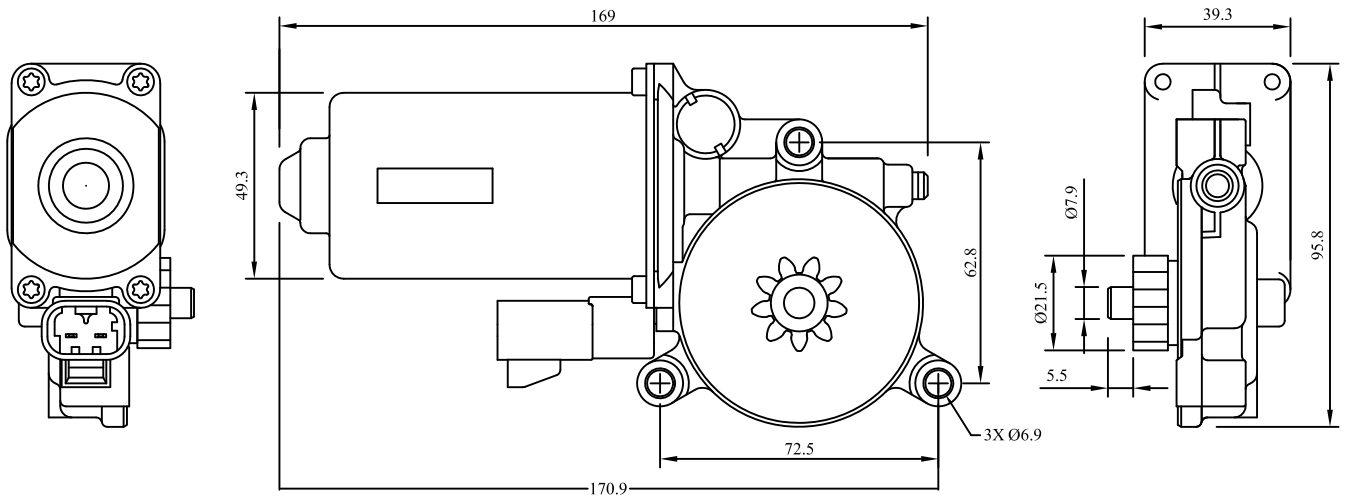
2 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589262



All dimensions in millimeters

Opposite Hand: 589261

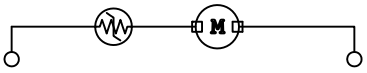
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	18 Amps
Output Gear Type:	=	9-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	21.5 mm
Output Shaft Lenght:	=	5.5 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12129487
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

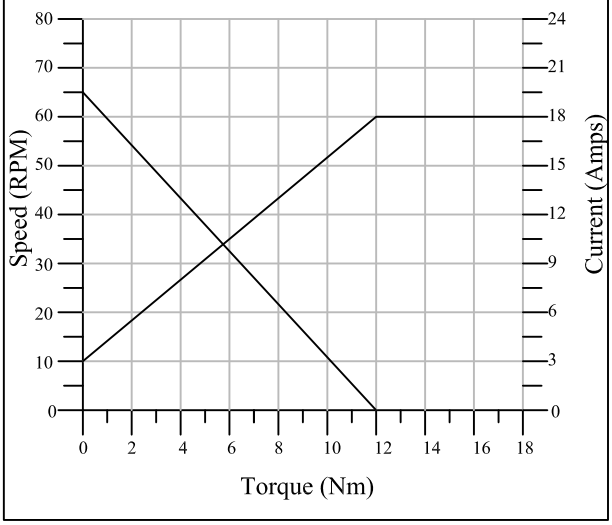
Schematic

1 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.

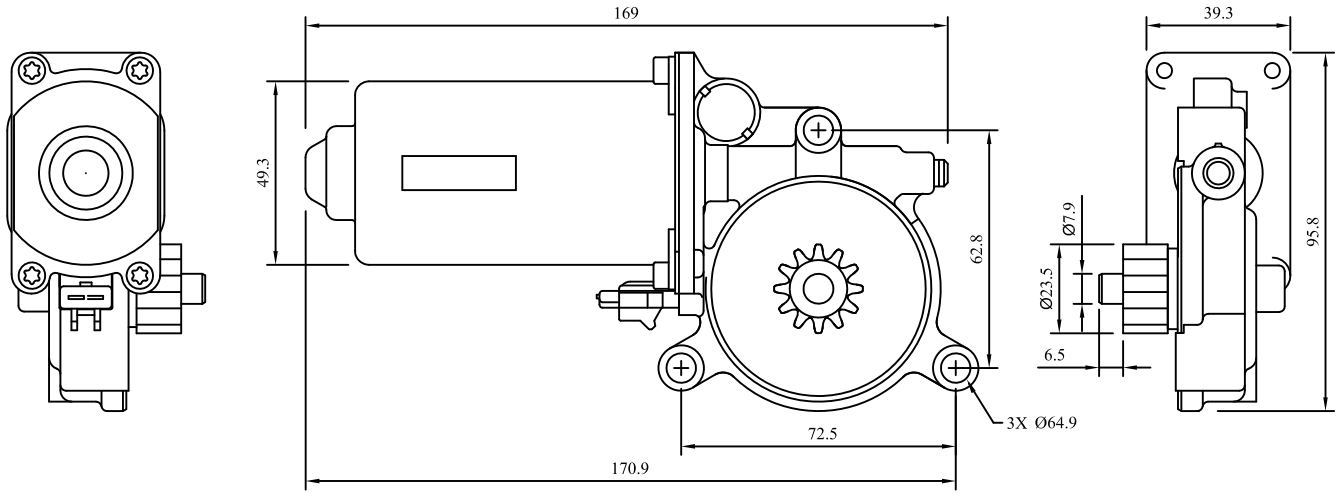
2 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589283



All dimensions in millimeters

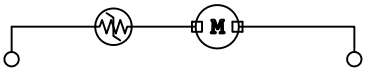
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	13 Nm
Stall Current:	=	20 Amps
Output Gear Type:	=	12-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	23.5 mm
Output Shaft Length:	=	6.5 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12033911
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

Schematic

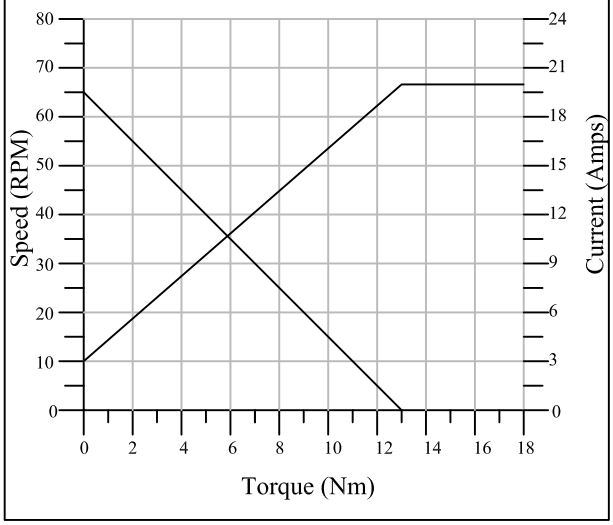
1 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.

2 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.

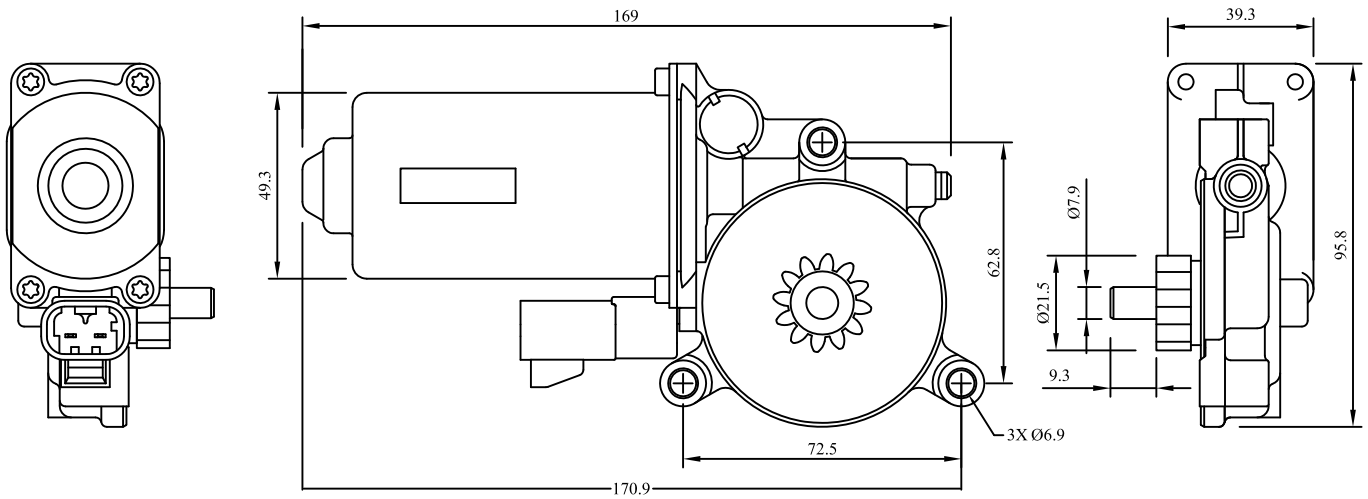


1 TERMINAL # 2 TERMINAL

Motor Performance



Phase 3 Motor Part# 589297



All dimensions in millimeters

Opposite Hand: 589298

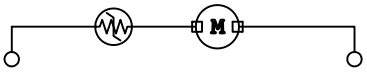
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	18 Amps
Output Gear Type:	=	12-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	21.5 mm
Output Shaft Lenght:	=	9.3 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 22129487
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

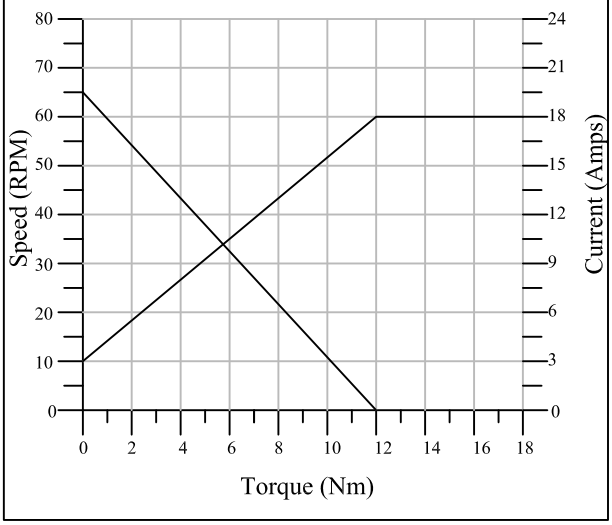
Schematic

1 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.

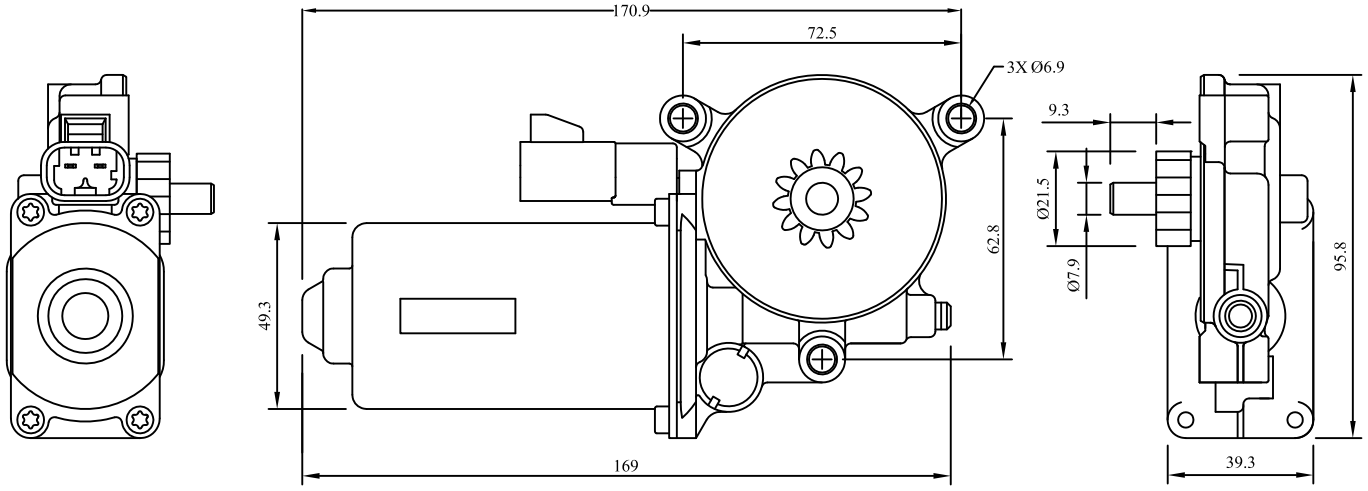
2 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589298



All dimensions in millimeters

Opposite Hand: 589297

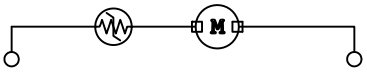
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	18 Amps
Output Gear Type:	=	12-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	21.5 mm
Output Shaft Lenght:	=	9.3 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 22129487
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

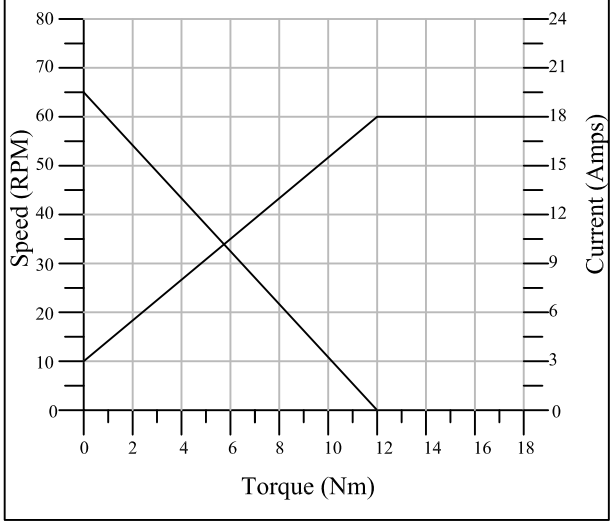
Schematic

1 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.

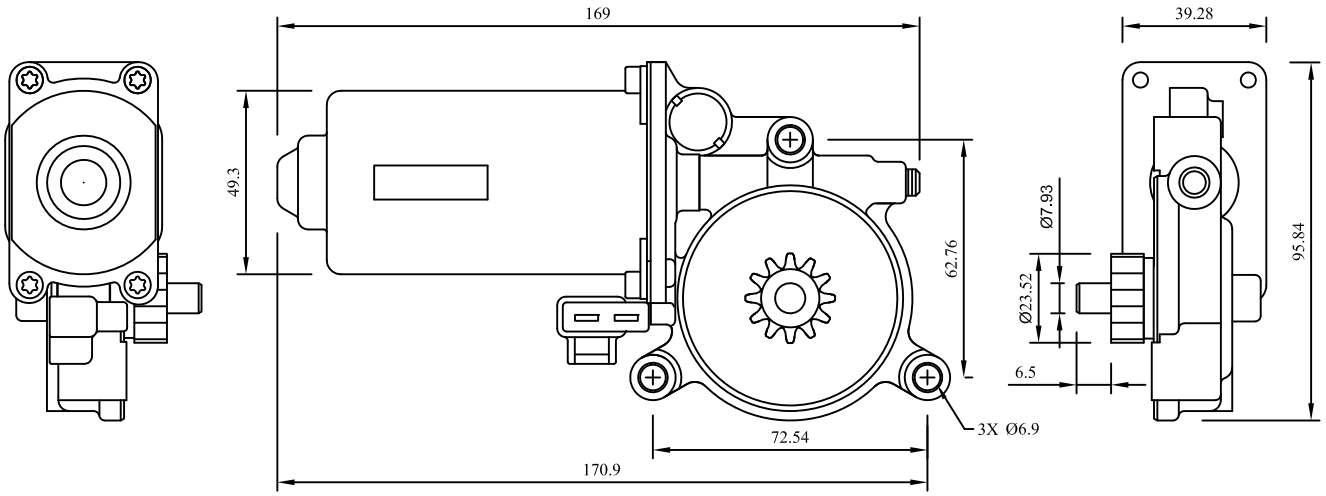
2 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589574



All dimensions in millimeters

Opposite Hand: 589575

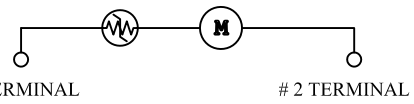
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	18 Amps
Output Gear Type:	=	12-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	23.5 mm
Output Shaft Lenght:	=	6.5 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12064749
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

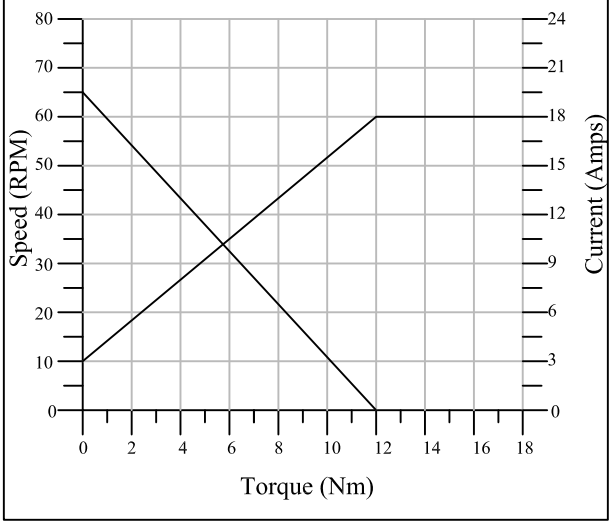
Schematic

1 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.

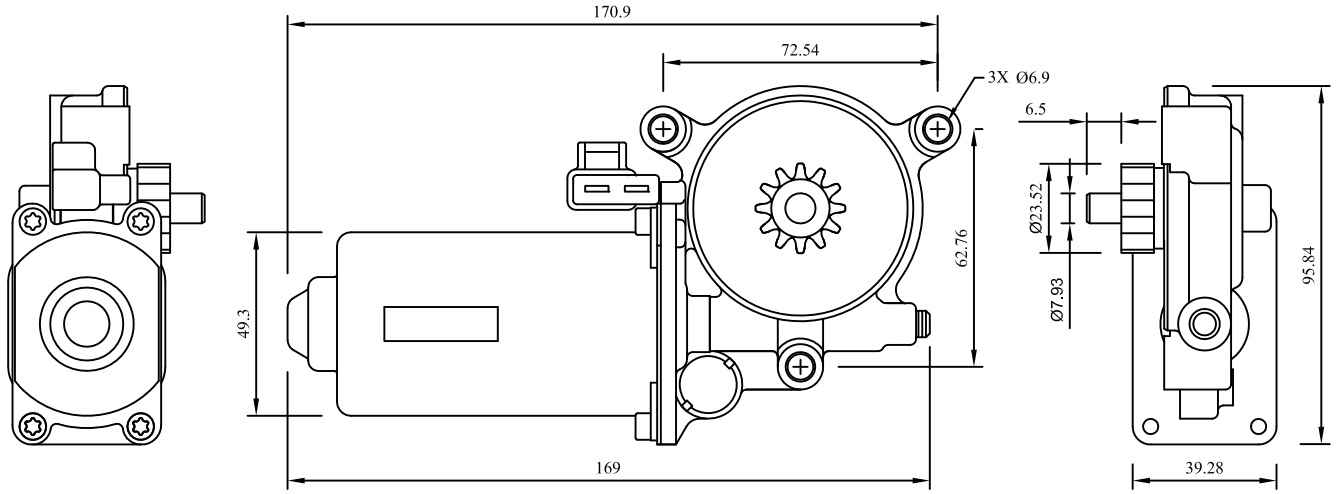
2 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589575



All dimensions in millimeters

Opposite Hand: 589574

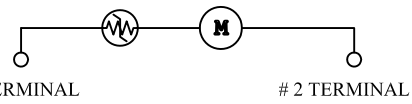
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	18 Amps
Output Gear Type:	=	12-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	23.5 mm
Output Shaft Lenght:	=	6.5 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12064749
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

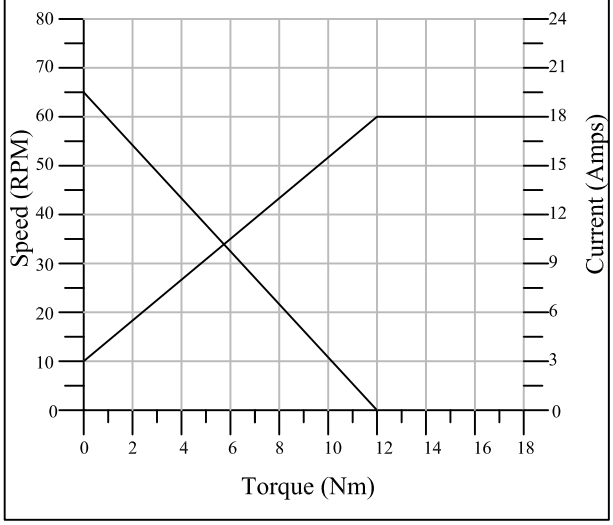
Schematic

1 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.

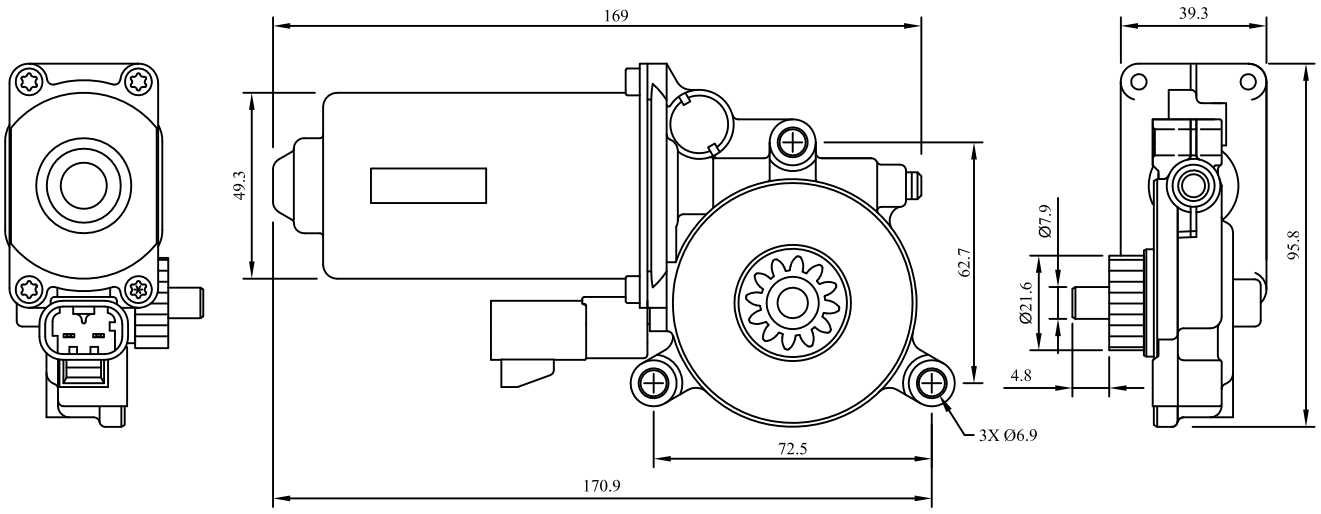
2 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589576



All dimensions in millimeters

Opposite Hand: 589577

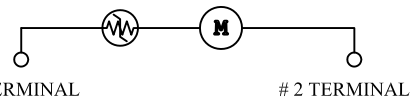
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	95 RPM
Stall Torque:	=	11 Nm
Stall Current:	=	30 Amps
Output Gear Type:	=	12-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	23.5 mm
Output Shaft Lenght:	=	4.8 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12129487
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

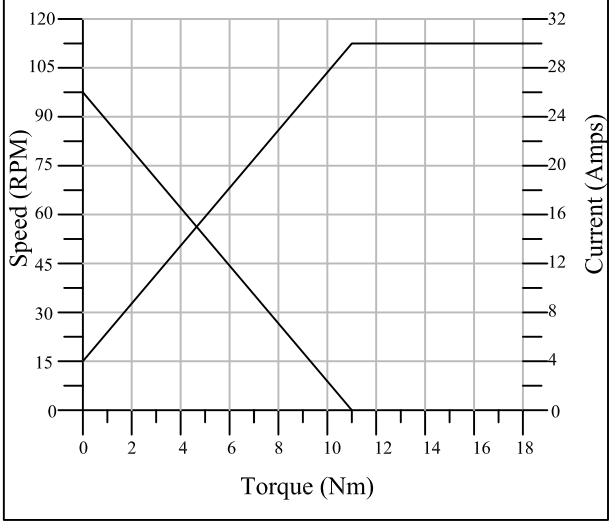
Schematic

1 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.

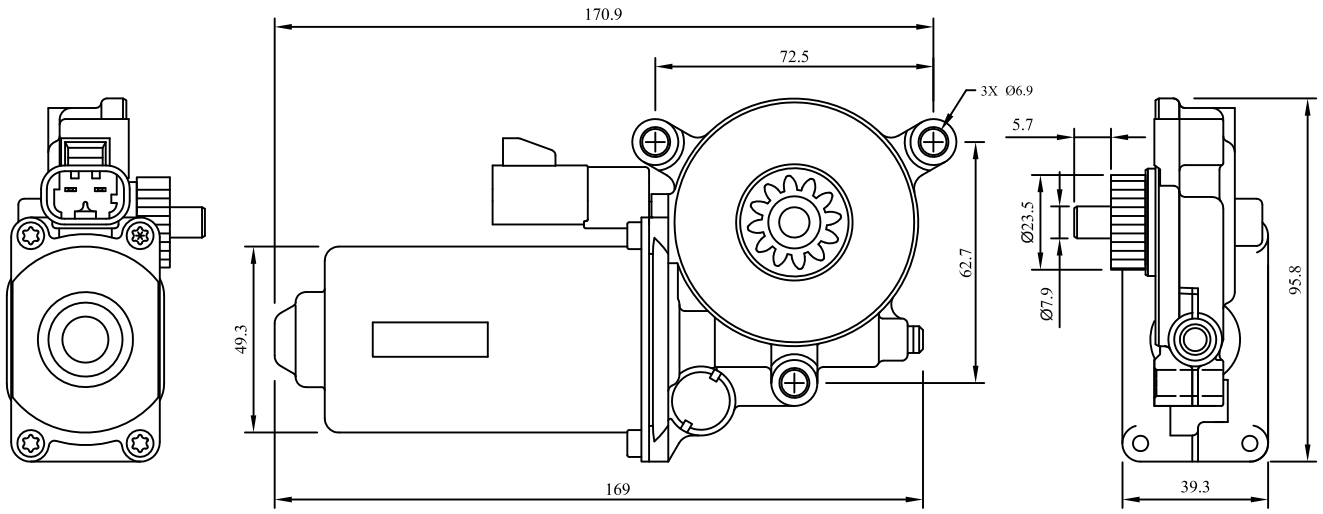
2 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589577



All dimensions in millimeters

Opposite Hand: 589576

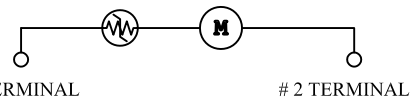
Technical Data

Rated Voltage:	=	12 V
No Load Speed:	=	95 RPM
Stall Torque:	=	11 Nm
Stall Current:	=	30 Amps
Output Gear Type:	=	12-Tooth
Output Gear Material:	=	Plastic
Output Gear O. D.:	=	23.5 mm
Output Shaft Lenght:	=	4.8 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12129487
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

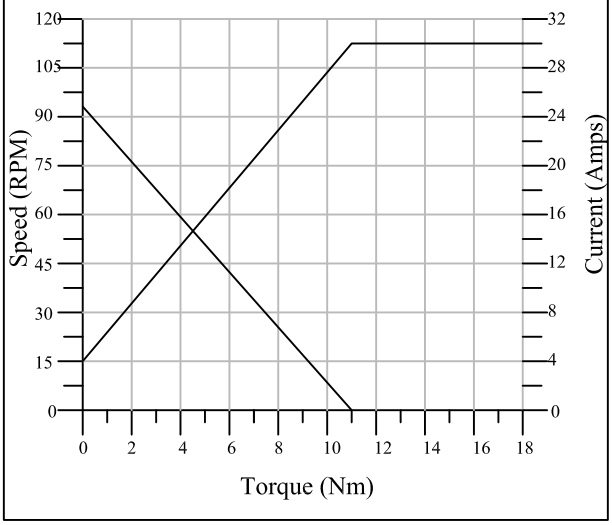
Schematic

1 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.

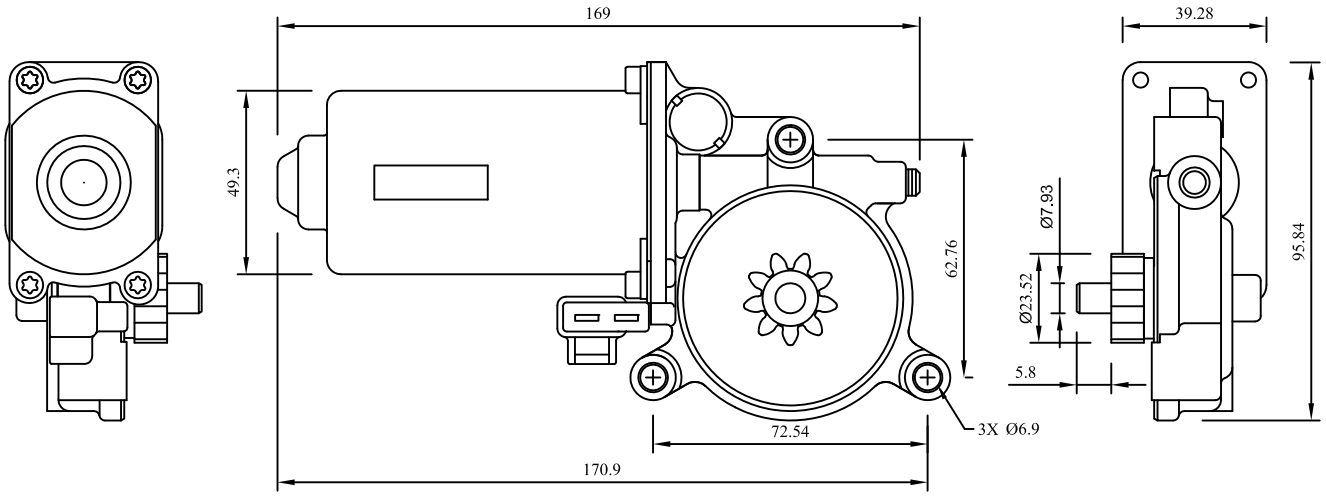
2 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589578



All dimensions in millimeters

Opposite Hand: 589579

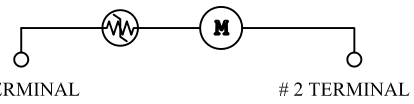
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	18 Amps
Output Gear Type:	=	9-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	23.5 mm
Output Shaft Lenght:	=	5.8 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12064749
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

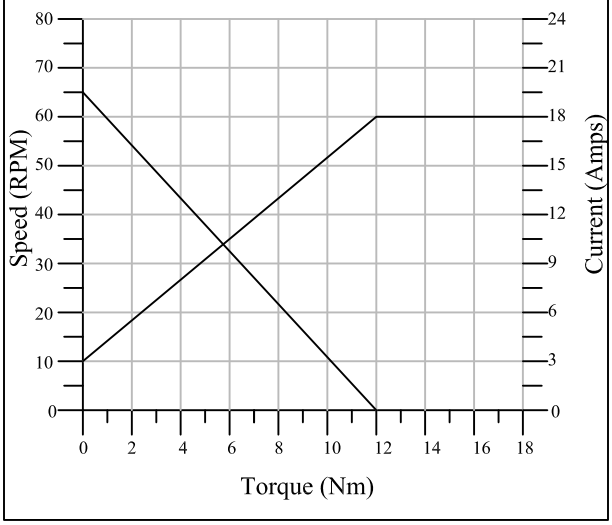
Schematic

1 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.

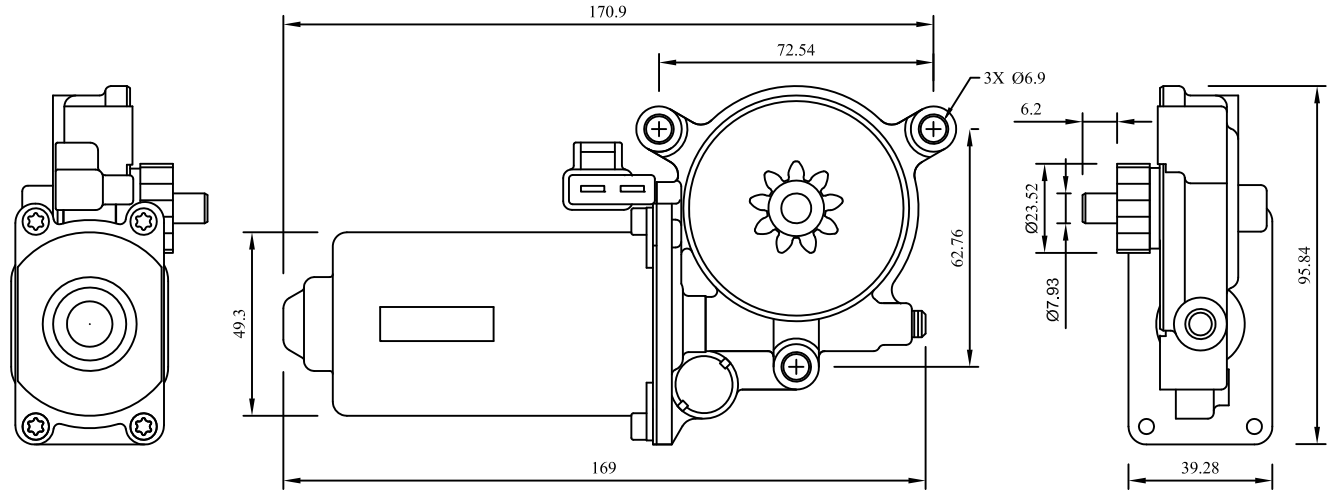
2 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589579



All dimensions in millimeters

Opposite Hand: 589578

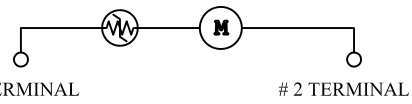
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	18 Amps
Output Gear Type:	=	9-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	23.5 mm
Output Shaft Lenght:	=	6.2 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12064749
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

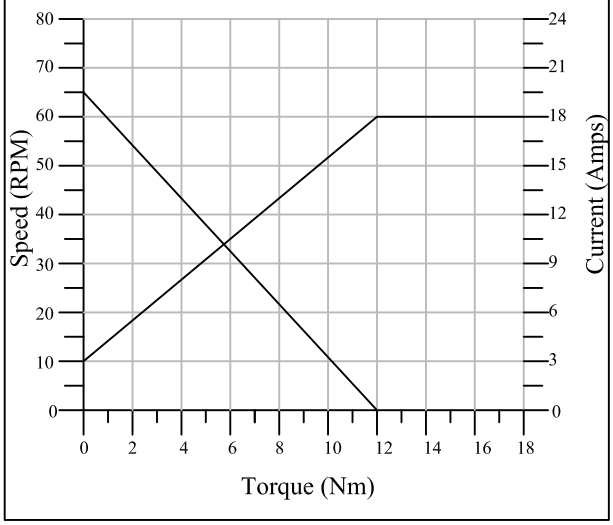
Schematic

1 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.

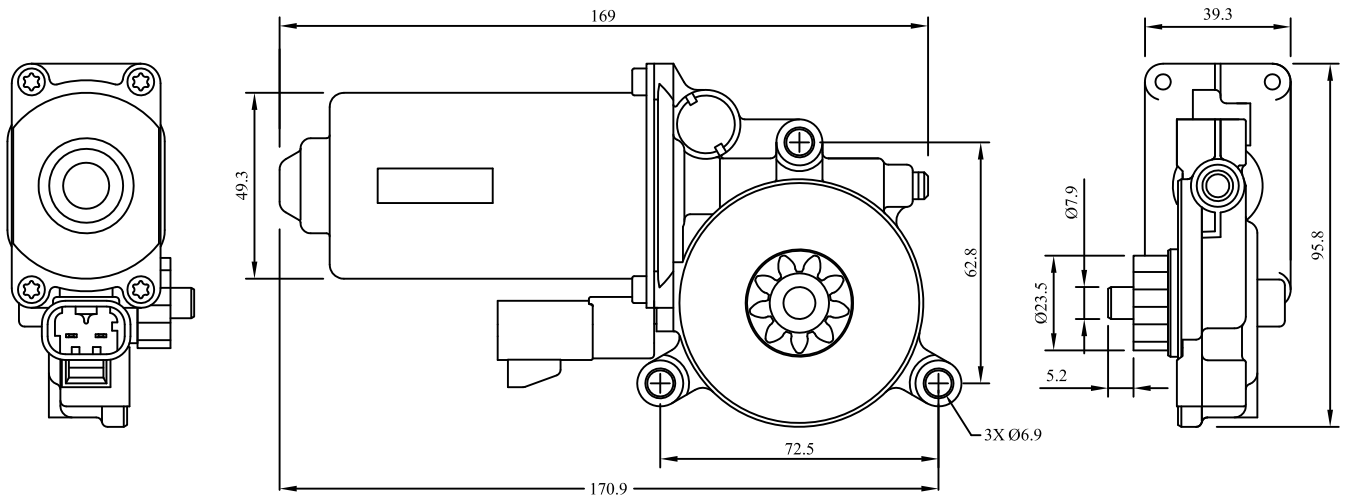
2 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589580



All dimensions in millimeters

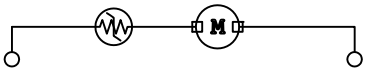
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	65 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	18 Amps
Output Gear Type:	=	9-Tooth
Output Gear Material:	=	Metal
Output Gear O. D.:	=	23.5 mm
Output Shaft Length:	=	5.2 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12129487
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

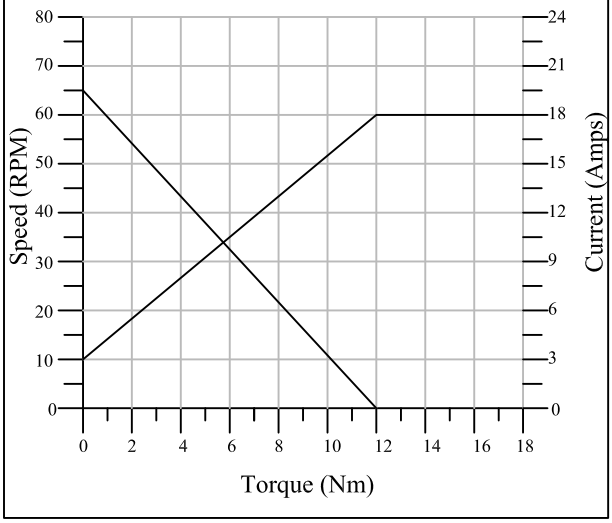
Schematic

1 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.

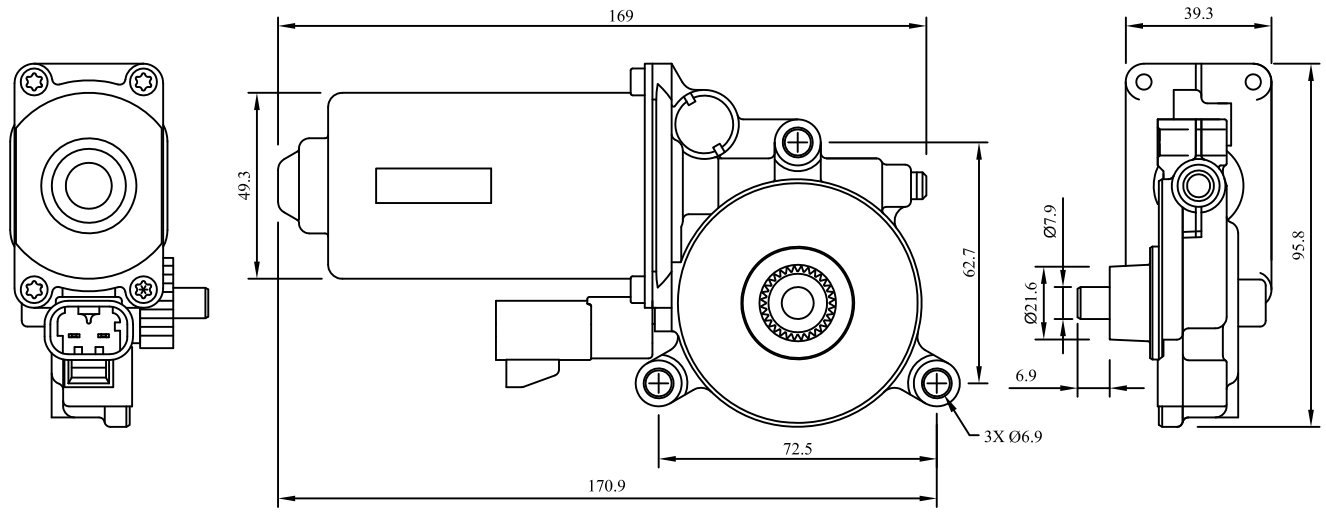
2 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589908



All dimensions in millimeters

Opposite Hand: 589909

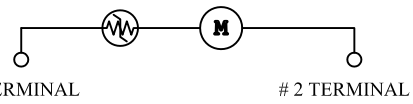
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	75 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	26 Amps
Output Gear Type:	=	32-Tooth
Output Gear Material:	=	Plastic
Output Gear O. D.:	=	21.6 mm
Output Shaft Lenght:	=	6.9 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Plastic
Connector Type:	=	Packard 12129487
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

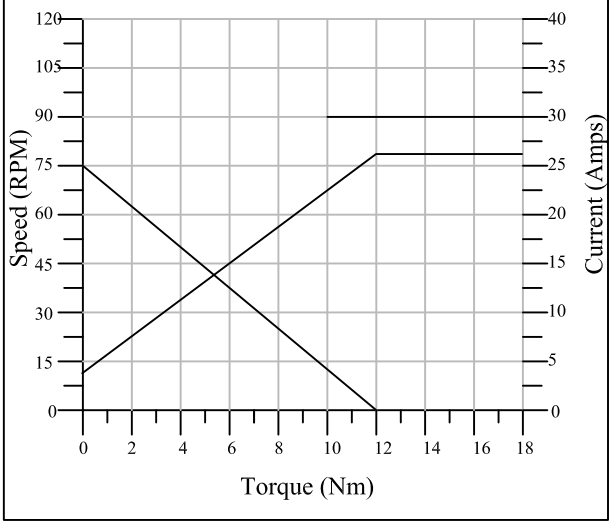
Schematic

1 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.

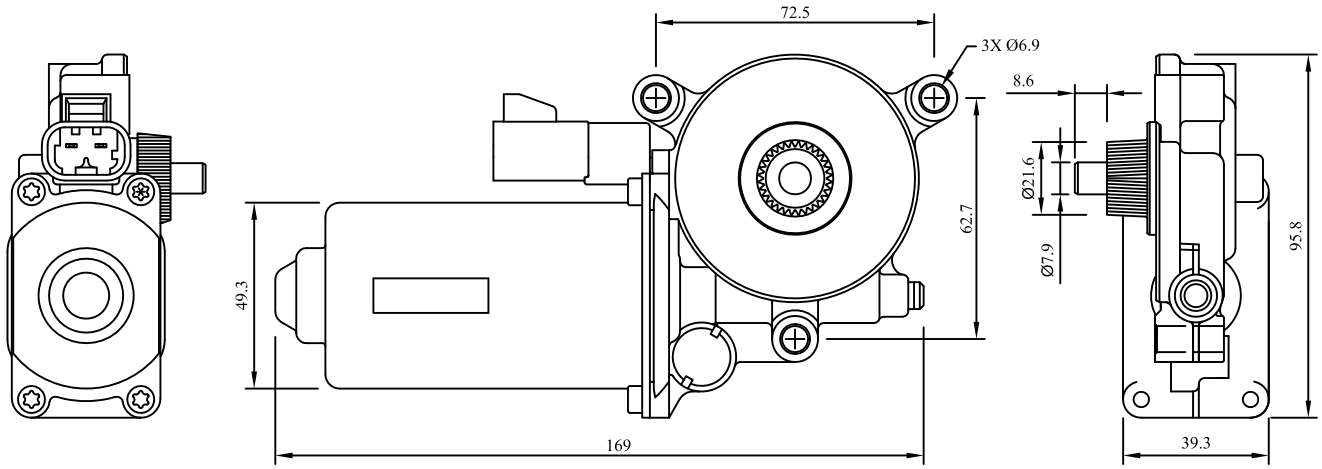
2 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.



Motor Performance



Phase 3 Motor Part# 589909



All dimensions in millimeters

Opposite Hand: 589908

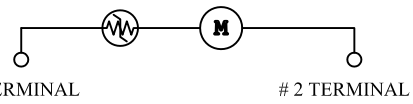
Technical Data

Rated Voltage:	=	12 V DC
No Load Speed:	=	75 RPM
Stall Torque:	=	12 Nm
Stall Current:	=	26 Amps
Output Gear Type:	=	32-Tooth
Output Gear Material:	=	Plastic
Output Gear O. D.:	=	21.6 mm
Output Shaft Lenght:	=	8.6 mm
Output Shaft Diameter:	=	7.9 mm
Gear Housing Material:	=	Metal
Connector Type:	=	Packard 12129487
Hall Sensor:	=	None
Protection Class:	=	IP 53
Approximative Weight:	=	0.9 Kg

Schematic

1 TERMINAL TO POSITIVE LEAD FOR COUNTERCLOCKWISE PINION ROTATION.

2 TERMINAL TO POSITIVE LEAD FOR CLOCKWISE PINION ROTATION.



Motor Performance