

GIVES YOU THE RIGHT ENERGY



Berman Techniek B.V.

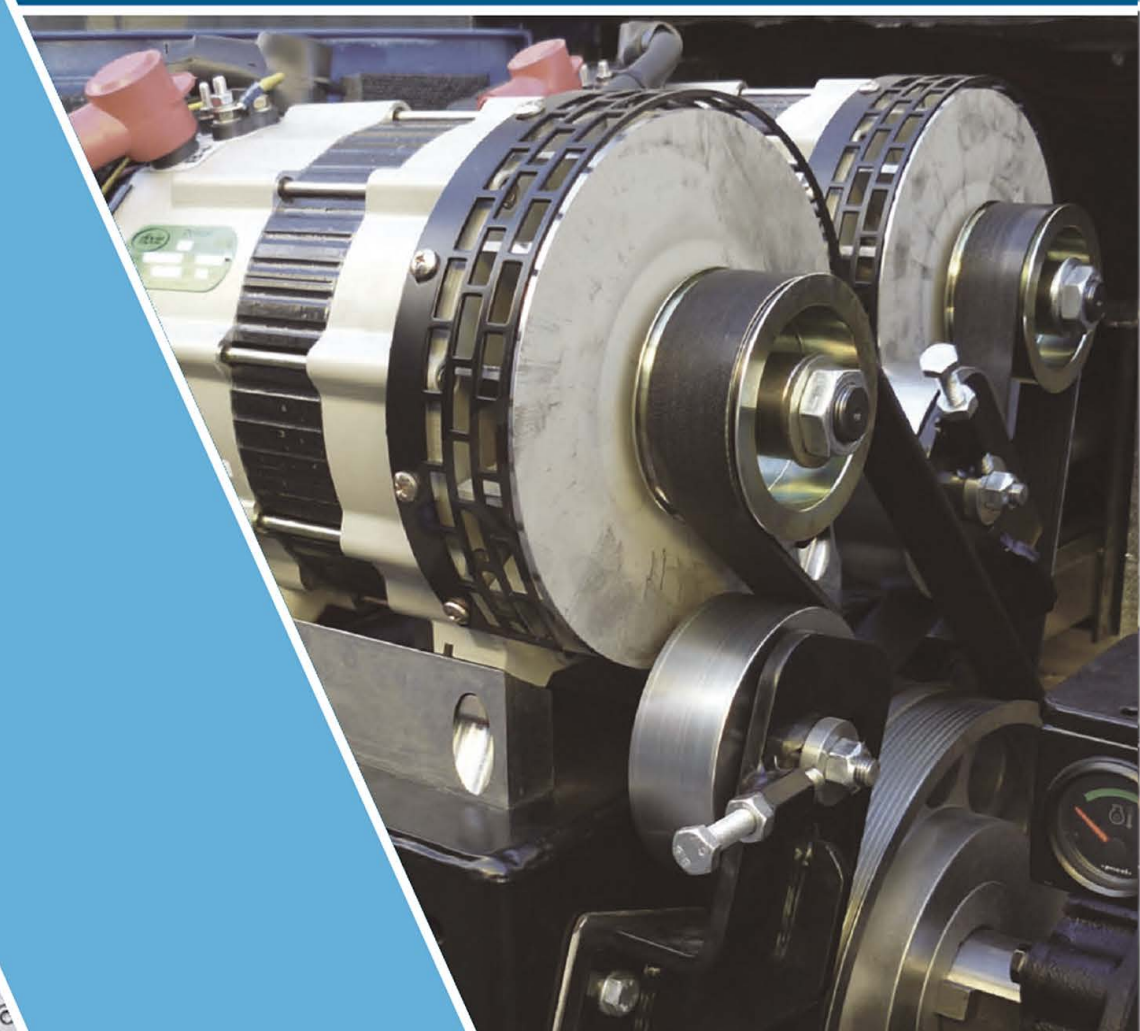
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ABOUT US

Berman Techniek, a Dutch company founded in 1980, supplies American starter motors and alternators for heavy industry and shipping. For more than 30 years "Berman Techniek" serves our customers and provides sustainable day-to-day supply in big variety of ccessories, where alternators and starters take a dominant position.

The program includes 200 different starters as replacement for American Delco. The Japanese starters and lternators are focused on truck refrigeration, industrial and diesel applications. Delstar alternators with a very large electrical capacity (12V and 24V up to 600A) also belong to the delivery program.

The Delstar Series, brushless alternators are an integral charging system of an innovative design. The compact, heavy duty construction provides efficiency and increased service life expected to match the longer maintenance intervals of todays engines. We are also a supplier of Prestolite alternators, starter motors and parts (also for hydraulic straters!).

Prestolite Electric is a global manufacturer and supplier of alternators, starters, auxiliary electrical equipment and services to the transportation, industrial and military industry. Prestolite has a strong heritage dating back to 1911, and includes the Leece-Neville, Motorola, Butec and Lucas CAV brands, resulting in a long history of engineering excellence and innovative products.

Furthermore, our delivery program consists of Cole Hersee products. Cole Hersee is a manufacturer of electromechanical, electronic, and digital switches and connectors used in sorts of heavy duty vehicles, pleasure boats, construction equipment and many more.

We are also the distributor of Elettrostart solenoids: electromagnets that are particularly appreciated for their superior performances in terms of both force and stroke (up to 50 mm) considering their relatively small sizes. The Elettrostart electromagnets are mainly used to stop and speed up the diesel engines.

In 2018 Company went through restructuring what opens a new horizons for expanding product groups lists and gives a new breath into building stronger relationships with our customers and suppliers. We are working hard, to provide you a high standard service in the shortest terms!



DelStar high efficiency alternator Series 170

DelStar high efficiency alternator Series 300



100-17202 – 24 Volt – 200 A – J-180 SAE J-180 foot mount

100-17212 – 24 Volt – 200 A – PAD mount

*Internal regulator
Insulated ground
Sense terminal
Brushless
R(AC) terminal for tachometer
D+ terminal (indicator light)
Rotorshaft (22,2 mm 7/8") Including air duct (optional)
Hairpin stator*

Applications
Fire trucks, Industrial, Marine, Buses and Coaches



Rpm/Amps:
1000 rpm – > 0A
2000 rpm – 262 A
3000 rpm – 347 A
4000 rpm – 384 A
5000 rpm – 400 A

100-30205 – 24 Volt – 400 A

*External regulator (optional)
Saddle mounting
Insulated ground
Two ball-bearings on drive end
(80 x 40 x 18 mm – 60208-2RS1)
Brushless
Air duct (optional)
Shaft with straight splines
Hairpin stator
Weight 35 kg*

Applications
Fire trucks, Industrial, Marine, Agriculture, Buses and Coaches



DelStar high efficiency alternator Series 250

DelStar high efficiency alternator Series 400

Rpm/Amps:
1000 rpm – > 0A
2000 rpm – 252 A
3000 rpm – 311 A
4000 rpm – 331 A
5000 rpm – 343 A

100-25208 – 330A

*Internal regulator
SAE J-180 Dual foot mount
Insulated ground
Brushless
Rotor shaft (22,2 mm 17/8")
Including air duct (optional)
Weight 24 kg
Hairpin stator*

Applications
Fire trucks, Industrial, Marine, Agriculture, Buses and Coaches



Rpm/Amps:
1000 rpm – > 0A
2000 rpm – 320 A
3000 rpm – 440 A
4000 rpm – 500 A
5000 rpm – 525 A

100-40207 – 24 Volt – 525 A

*External regulator (optional)
Saddle mounting
Insulated ground
Two ball-bearings on drive end
(80x40x18 mm – 60208-2RS1)
Brushless
Air duct (optional)
Shaft with straight splines
Weight 37 kg
Hairpin stator*

Applications
Fire trucks, Industrial, Marine, Agriculture, Buses and Coaches



DelStar high efficiency alternator Series 170 MasterVolt



This DelStar 1170-10201 designed to be used with Alpha Pro III Mastervolt regulator.

Meets all marine and International CE Standards.
24 Volt 200 A

Insulated ground
SAE J-180 Dual Foot Mount
Rotation – bidirectional

Recommended for:
All Mastervolt Marine applications

Accessories:
• Air Intake Cover # 46400-171
• Alpha pro III Voltage regulator – sold separately



DelStar high efficiency alternator Series 180 MasterVolt



This DelStar 1180-10201 is suitable for Alpha Pro III Mastervolt regulator.

Meets all marine and International CE Standards.

24 Volt 250 A
Has optional air intake cover
Insulated ground
SAE J-180 Dual Foot Mount
Rotation – bidirectional

Recommended for:
All Mastervolt Marine applications

Accessories:
• 90° elbow Pkg 360° rotatable # 46900-1800
• Air Intake Cover # 46400-181
• Alpha pro III Voltage regulator – sold separately



DelStar high efficiency alternator Series 180 – J - 180

100-18202 24 V - 250 A built in regulator
100-18203 24 V - 250 A external regulator
100-18204 24 V - 200 A built in regulator
100-18205 24 V - 200 A external regulator

DelStar high efficiency alternator Series 180 J-180

24 Volt - 250 A	24 Volt - 200 A
Rpm/Amps:	
1000 rpm – > 0 A	1000 rpm – > 0 A
2000 rpm – 160 A	2000 rpm – 128 A
3000 rpm – 200 A	3000 rpm – 160 A
4000 rpm – 220 A	4000 rpm – 176 A
5000 rpm – 237 A	5000 rpm – 190 A

SAE J-180 Dual Foot Mount
Insulated ground
Sense terminal
One ball-bearing on drive-end site
(62x24,4x25,4 mm – 63305-2RS1)
Brushless
Including air duct (optional)
R(AC) terminal for tachometer
D+ terminal (indicator light) only for built-in regulators
Rotor shaft (22,2 mm 7/8")
Hairpin stator

Applications
Fire trucks, Industrial, Marine,
Buses and Coaches

DelStar high efficiency alternator Series 180 T1 and PAD Mount

PAD Mount

100-18213 24 V - 250 A built in regulator
100-18214 24 V - 250 A external regulator
Insulated ground
Built in or external regulator
Sense terminal
Brushless
Optional air duct
*Rotor shaft 22,2mm (*7 /8")*
Hairpin stator

T1 Mount

100-18225 24 V - 200 A T1-right ear 60°
100-18226 24 V - 200 A T1-left ear 60°
100-18227 24 V - 265 A T1-right ear 60°
100-18205 24 V - 265 A T1-left ear 60°



Insulated ground
All units have built in regulators
Sense terminal
Brushless
Optional air duct
Rotor shaft 30,0 mm
Hairpin stator

Applications for PAD Mount and T1 Mount
Fire trucks, Industrial, Marine,
Buses and Coaches

Prestolite

The Prestolite hydraulic starter system provides starting for diesel engines predominantly used in safety critical applications.

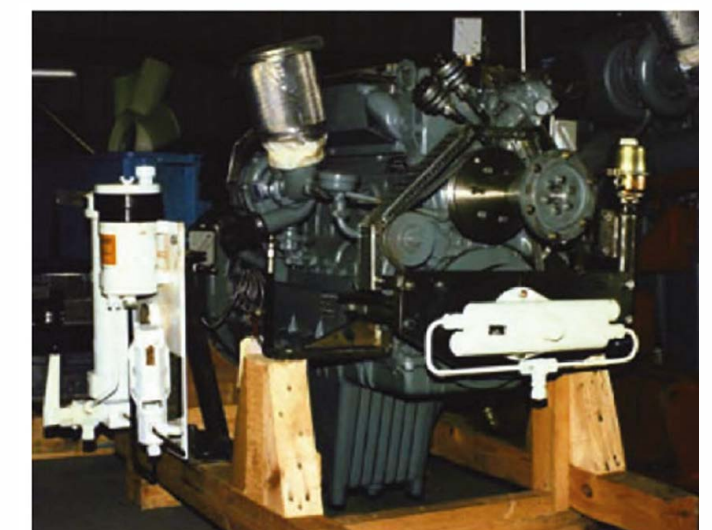
It is usually used as part of a dual starting system to provide back up to the standard electric starter motor, but can also be used as the sole means of engine starting.

Two sizes of starter unit (B35G8 & B50G53) cover engines of 70 to 160mm bore diameter usually irrespective of the number of cylinders.

The system has a long history, but the basic efficient reliable design has remained largely unchanged throughout; originally developed in France the system is now built by Prestolite Electric.

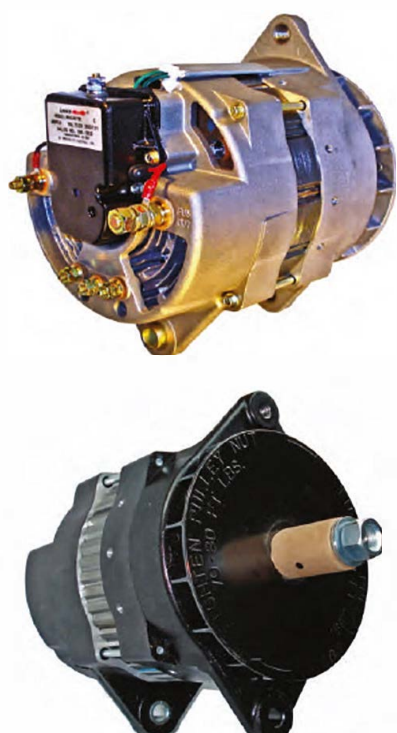
Our Offer:

- A Full range of spare parts and components.
- Worldwide shipping
- Spares and upgrade solutions for former Bryce Berger & Lucas Bryce Handraulic starter systems
- Systems for New Installations
- Complete starter systems are available for new installations or to replace older Bryce systems.
- The Unique design allows a second start solution for engines with only a single starter pocket.
- The system offers proven reliability in the toughest environments.
- Commonly specified by leading manufactures on life boat, emergency generator & fire/water pump engine applications.



Prestolite Electric alternator Series BLD

Prestolite Electric alternator Series 8SC



BLD3314GH / BLD3365GH / BLD3338GH

System voltage: 24 Volt
Output: 140 A
High Temperature Rated 125°C (257°F)
Most Competitively Priced Units in Heavy Duty
Brushless Design
Solid Rectifier Lead Frame
Welded Diode Connections
Vibration Resistant
SAE J-180 Dual foot mount
Excitation type: self excite (BLD3314GH, BLD3365GH)
Excitation type: sense (BLD3338GH)
Integral regulator
Adjustable regulator: Yes (BLD3314GH, BLD3365GH)
Adjustable regulator: No (BLD3338GH)
Rotor shaft (22,2 mm 7/8")

Applications

Construction, Heavy and Medium Duty truck,
Marine, Off-Highway and Agriculture

8SC3133U / 8SC3169U - 24 Volt 100 A 8SC3157V - 24 Volt 175 A

Features

Adjustable internal regulator from 26.8 V to 29.5 V
Direct replacement for non-adjustable 8SC range
SAE J-180 Dual foot mount
CW rotation
Insulated
Brand new
Rotor shaft (22,2 mm 7/8")
Heavy-duty 5/16 output stud for superior electrical connections
Special AC terminal for connection of tachometers and other instruments
R terminal for indicator lamp hook-up
Long life copper graphite brushes enclosed in a dirt resistant chamber to extend brush life
Trash screens are available for protection against foreign particles
Integral charging systems that can handle heavy belt loads and extremely high electrical loads on today's large diesel or gas engines
Solid rectifier lead frame advanced avalanche diodes, welded connections
Simplified wiring - insulated three wire system
Built-in Load Dump protected regulator with solid state circuitry and external adjustment

Applications

Marine, Rail, Bus/Coach, Industrial, Aircon systems,
Heavy Duty Trucks Emergency Vehicles



Prestolite Alternator Series 8SC3160V



System voltage: 24 Volt
Output: 150 A
Mounting style: J180
Rotation: clockwise
Housing coating: RAW
Mounting bolt size: .505-.520
Mounting ear size: 1/2-13
Mounting holes: 3
Positive stud size: 5/16-24
Negative stud size: 1/4-28
Rectifier location: internal
Shaft diameter: 7/8 inch
Regulator location: Integral
Regulator number: 8RL3136
Weight: 14 kg

Prestolite Electric Starter Motors Series M90

Prestolite Electric Starter Motors Series M110



M90 Starter Series gear reduced starter motor (90 mm frame)

24 Volt – 5.5 / 6.0 kW

Application

Bus/coach and Truck

M93 Starter Series planetary gear-reduced starter motor (93mm frame)

12 Volt – 3.0 kW

24 Volt – 6.0 kW

M93R Series planetary gear-reduced starter motors are available in both 12 Volt and 24 Volt models

Application

Medium Duty Diesel, Industrial, Bus/coach, Agriculture.



M110 Titan Series gear reduced starter motor (110 mm frame)

12 Volt – 7.0 kW

Rotation Clockwise

Mounting SAE1, SAE3

For engines for up to 14 liter

Weight: less than 14 kg

Overcrank Protection (Optional)

Robust Armature Design

Heavy Duty Brush Plate

Soft Start Relay

Integral Magnetic Switch (IMS)

Sealed Nose Housing

Application

Trucks, Agriculture, Construction, Excavators etc.



Prestolite Electric Starter Motors Series M105

Prestolite Electric Starter Motors Series M125



M105 Titan Series gear reduced starter motor (105mm frame)

12 Volt – 5.0 kW

24 Volt – 7.5 kW

Rotatable flange

Most models available with OCP (over crank protection)

For Diesel Engines up to 11 liter

Sealed noseless design, rotatable flange

Electrical soft start engagement system

Integral mag switch relay

Weight less than 13,5 kg.

Application

Bus/coach, Marine, Truck etc.



M125 Titan gear reduced starter motors (125 mm frame)

12 Volt – 8.0 kW

24 Volt – 9.0 kW Replacement for 50MT

OCP (over crank protection) standard

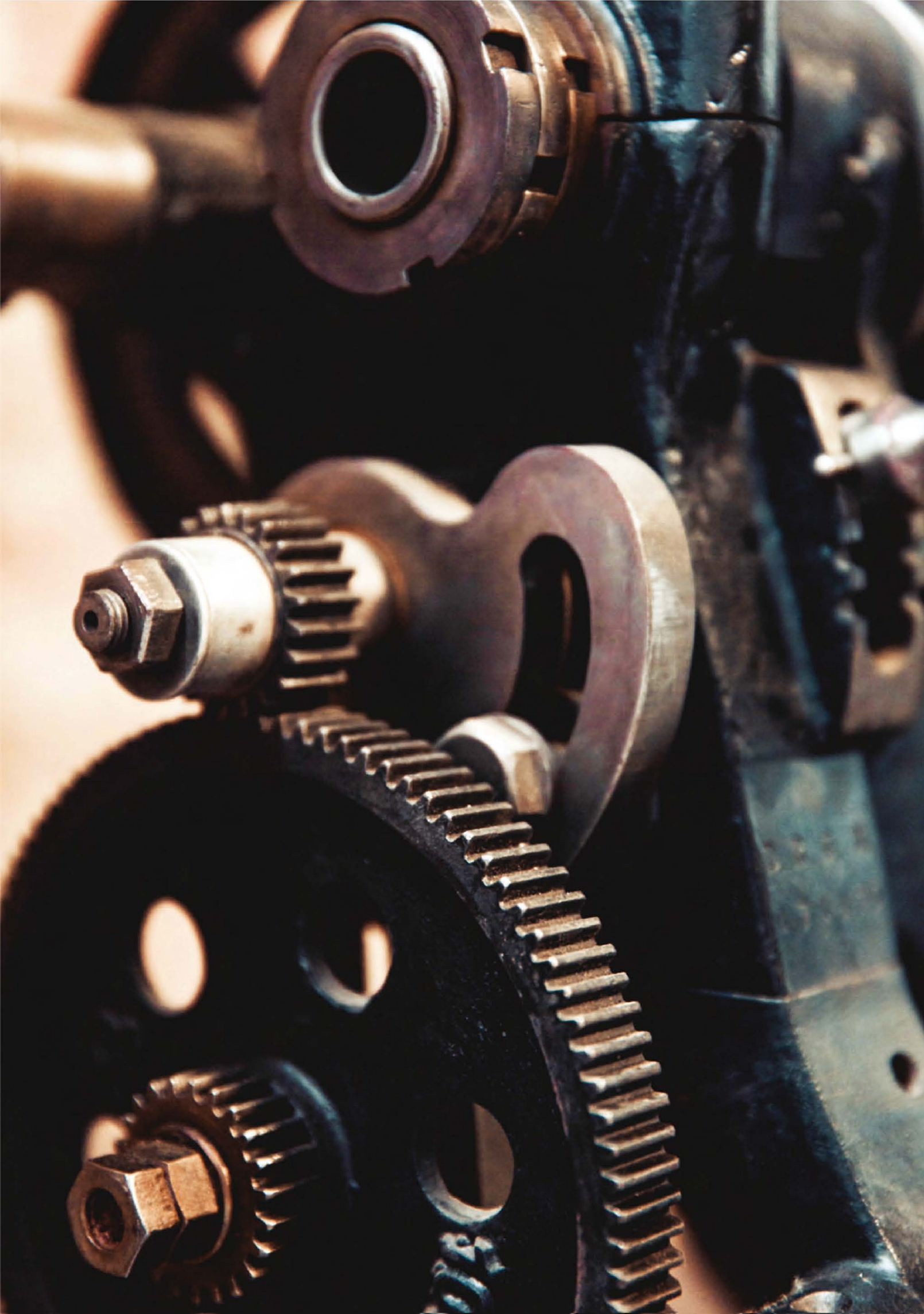
Rotatable SAE3 nose housing

Just under 20 Kg (50MT 35 Kg)

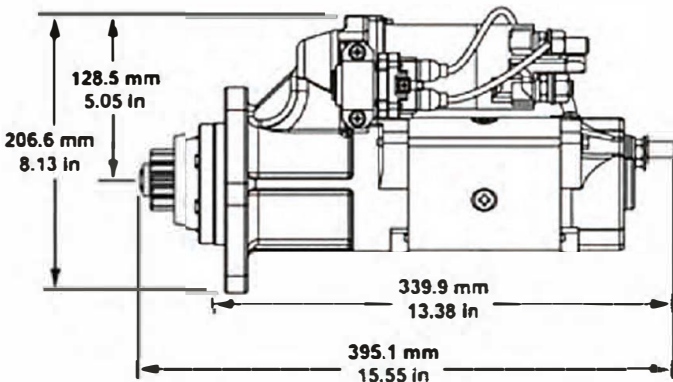
Application

Marine, Trucks, Construction, Excavators etc.





Substitute for Delco 38 MT
Heavy Duty Gear Reduction Starter

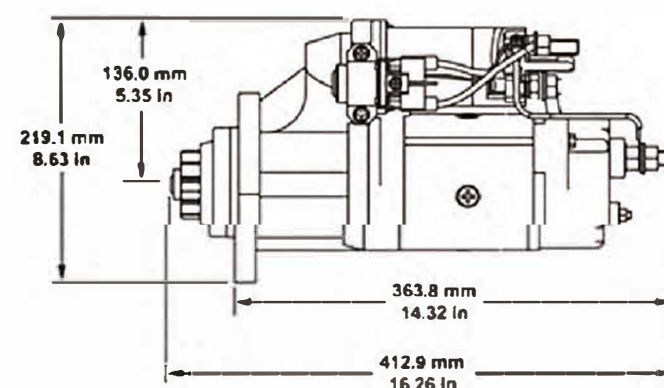


The 38MT is a gear reduction starter for medium and heavy duty applications featuring electrical soft start technology to prevent ring gear damage.

SPECIFICATIONS

Engine Size	12 Volt up to 10.0 L 24 Volt up to 12.0 L
System Voltage	12 or 24 Volts
Rotation	Clockwise
Mounting	SAE #1, SAE #3
Pinion	10 Tooth, 8-10 Pitch 11 Tooth, MOD 3 (Metric) 12 Tooth, 8-10 Pitch
Peak Output	12 Volt 4.3 kW 24 Volt 7.8 kW
Battery Internal Resistance	12 Volt 4 mOhm 24 Volt 10 mOhm
Weight	22.0 lbs / 10.0 kg
Frame Diameter	3.9 in / 100 mm
Overall Length	15.55 in / 395.1 mm
Motor Type	Wound Field Planetary Gear
Pinion Support	Noseless
Drive Design	Electrical Soft Start Overrunning Clutch
Optional Features	Over-Crank Protection

Substitute for Delco 39MT Heavy Duty Gear Reduction Starter

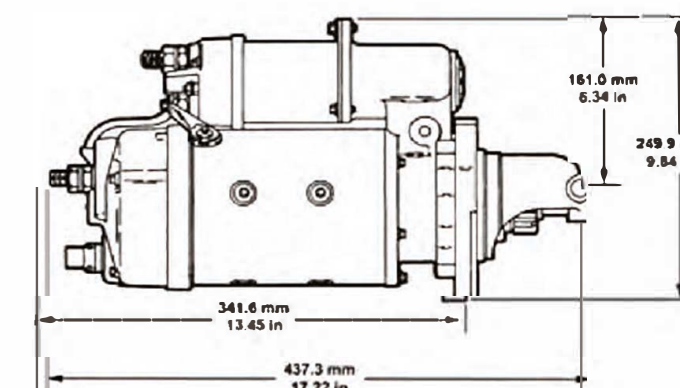


The 39MT is a gear reduction starter ideal for heavy duty truck and off highway applications. The drive has an electrical soft start that rotates the pinion for proper ring gear engagement before cranking, minimizing tooth abutment related damage. The sealed solid link solenoid eliminates contact welding in low system voltage situations, providing enhanced reliability. Sealed noseless configuration minimizes debris accumulation and contamination reducing maintenance expense.

SPECIFICATIONS

Engine Size	12 Volt up to 15.0 L 24 Volt up to 16.0 L
System Voltage	12 or 24 Volts
Rotation	Clockwise
Mounting	12 Volt SAE #1, SAE #3 24 Volt SAE #3
Pinion	11 Tooth, 6-8 Pitch 12 Tooth, 8-10 Pitch 12 Tooth, MOD 3 (Metric)
Peak Output	12 V 7.3 kW 24 V 9.0 kW
Battery Internal Resistance	12 Volt 2 mOhm 24 Volt 8 mOhm
Weight	30.8 lbs / 14.0 kg
Frame Diameter	4.5 in / 114 mm
Overall Length	14.09 in / 358 mm
Motor Type	Wound Field Planetary Gear
Pinion Support	Noseless
Drive Design	Electrical Soft Start Overrunning Clutch
Optional Features	Rotatable Flange Over-Crank Protection Jump-Start Protection (meets SAE J1493)

Substitute for Delco 41MT Straight Drive Starter

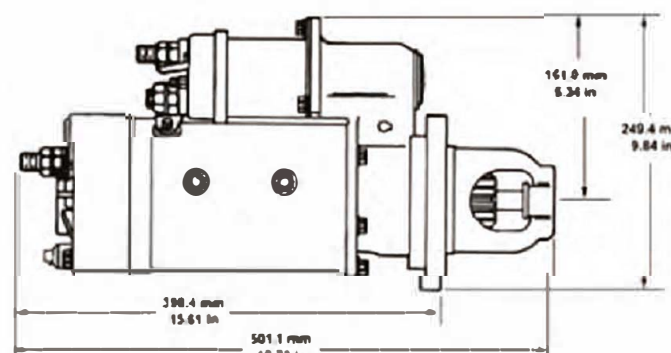


The 41MT is a straight drive starter for heavy duty applications rated at 5.0 kW for 12 Volt applications and 7.0 kW for 24 Volt applications.

SPECIFICATIONS

Engine Size	12 Volt up to 9.8 L 24 Volt up to 12.0 L
System Voltage	12 or 24 Volts
Rotation	Clockwise
Mounting	SAE #1, SAE #3
Pinion	11 Tooth, 6-8 Pitch 11 Tooth, 8-10 Pitch 12 Tooth, 8-10 Pitch
Peak Output	12 Volt 5.0 kW 24 Volt 7.0 kW
Battery Internal Resistance	12 Volt 4 mOhm 24 Volt 10 mOhm
Weight	50.0 lbs / 22.7 kg
Frame Diameter	5.12 in / 130 mm
Overall Length	17.04 in / 432.8 mm
Motor Type	Wound Field Straight Drive
Pinion Support	Nose
Drive Design	Two-piece rotatable drive housing (12 or 24 positions) Positive Engagement Rubber Shock Absorber
Optional Features	Jump-Start Protection (meets SAE J1493) Over-Crank Protection

Substitute for Delco 42MT Straight Drive Starter

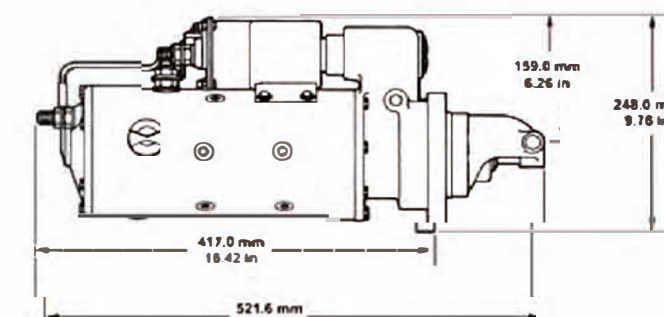


The 42MT is a straight drive starter for heavy duty applications available in 12 Volt and 24 Volt configurations. The 42MT features a Semi Solid Link solenoid and optional Over-Crank Protection.

SPECIFICATIONS

Engine Size	12 Volt up to 14.8 L 24 Volt up to 16.0 L
System Voltage	12 or 24 Volts
Rotation	Clockwise Counterclockwise
Mounting	SAE #1, SAE #3
Pinion	11 Tooth, 6-8 Pitch 12 Tooth, 8-10 Pitch 13 Tooth, 8-10 Pitch 11 Tooth, MOD 3 (Metric) 12 Tooth, MOD 3 (Metric)
Peak Output	12 V 7.3 kW 24 V 8.0 kW
Battery Internal Resistance	12 Volt 2 mOhm 24 Volt 8 mOhm
Weight	58.0 lbs / 26.3 kg
Frame Diameter	5.12 in / 130 mm
Overall Length	19.53 in / 496 mm
Motor Type	Wound Field Straight Drive
Pinion Support	Nose
Drive Design	Two-piece rotatable drive housing (12 or 24 positions) Positive Engagement Rubber Shock Absorber
Optional Features	Jump-Start Protection (meets SAE J1493) Over-Crank Protection

Substitute for Delco 50M1 Straight Drive Starter



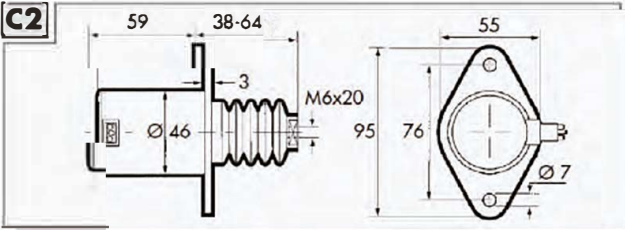
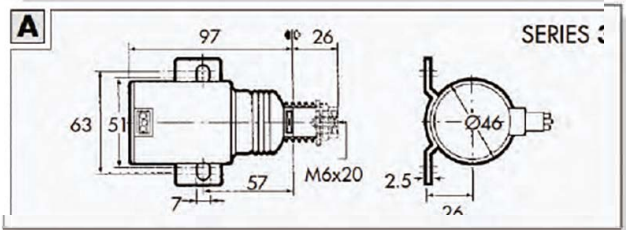
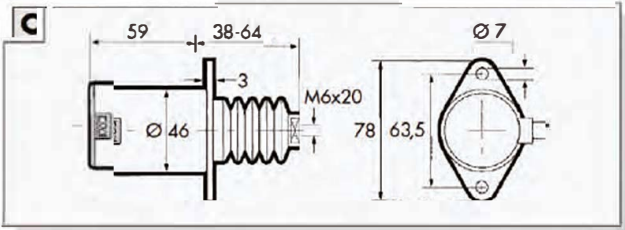
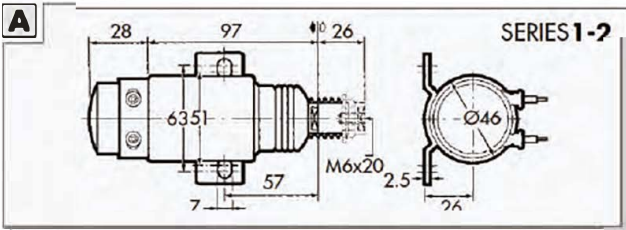
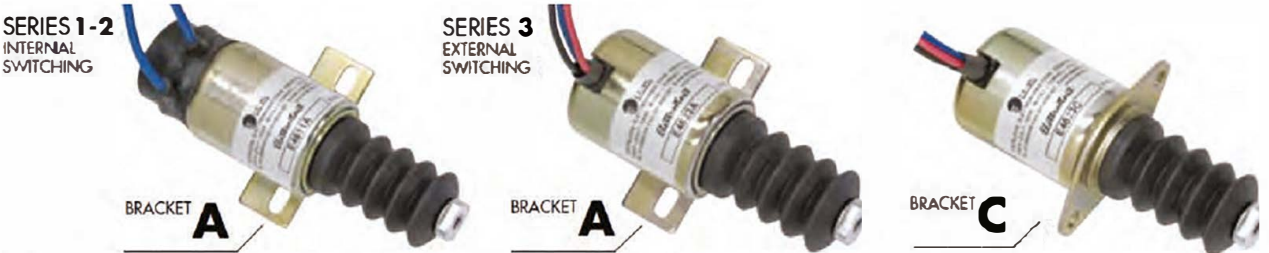
The 50MT is a straight drive starter for heavy duty and industrial applications. The standard 50MT is available in 24 Volt model but if requested also could be supplied as a 12 Volt or 32 Volt version. It can start engines with displacement up to 29.5 liters.

SPECIFICATIONS

Engine Size	up to 29.5 L
System Voltage	12, 24, 32 or 64 Volts
Rotation	Clockwise Counterclockwise
Mounting	SAE #3
Pinion	11 Tooth, 6-8 Pitch 12 Tooth, 8-10 Pitch 12 Tooth, MOD 3 (Metric)
Peak Output	12 Volt 8.5 kW 24 Volt 9.0 kW 32 Volt 13 kW
Battery Internal Resistance	12 Volt 2 mOhm 24 Volt 8 mOhm 32 Volt 11 mOhm
Weight	79.0 lbs / 35.8 kg
Frame Diameter	5.59 in / 142 mm
Overall Length	20.40 in / 518.2 mm
Motor Type	Wound Field Straight Drive
Pinion Support	Nose
Drive Design	Rotatable Drive Housing Positive Engagement Rubber Shock Absorber
Optional Features	Jump-Start Protection (meets SAE J1493)

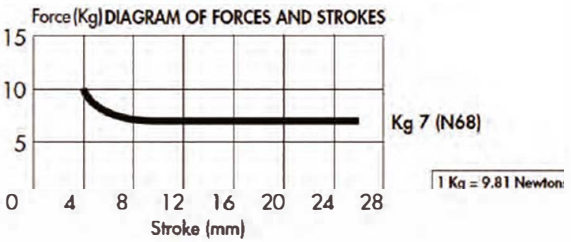
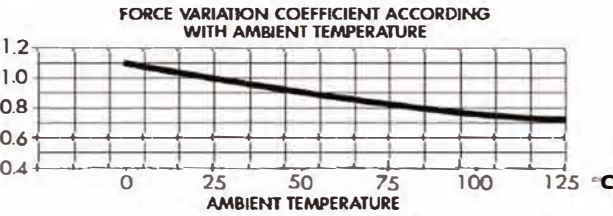
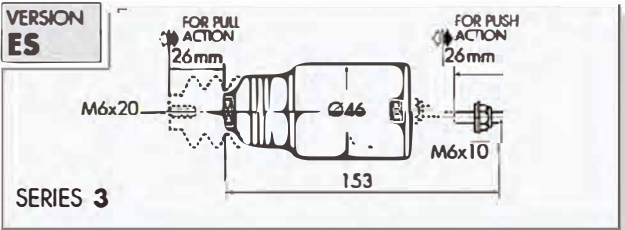
Elettrostart family E - ES - 46

DUAL COIL SOLENOID FOR PULL ACTION OR PULL-PUSH ACTION



SPECIFICATIONS

Rated voltage	12 V DC	24 V DC
Pull current	40 A	23.5 A
Hold current	0.60 A	0.30 A
Duty service	Continuous (100%)	
Stroke	26 mm	
Force at starting	7 Kg	
Windings insulation class	H (180° C)	
Ambient temperature	-40° C ÷ 120° C	
Weight	0.81 Kg	



AVAILABLE OPTIONS

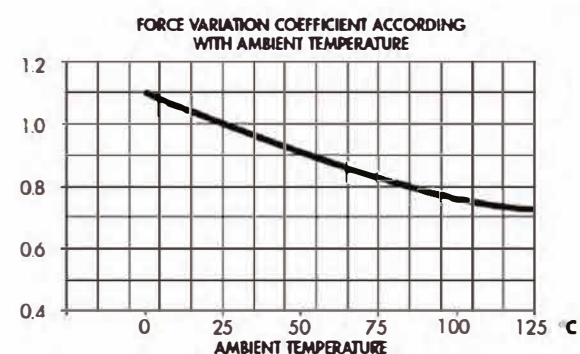
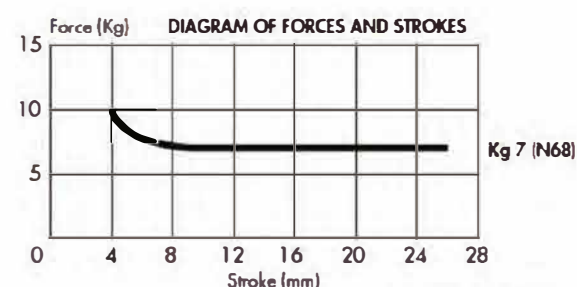
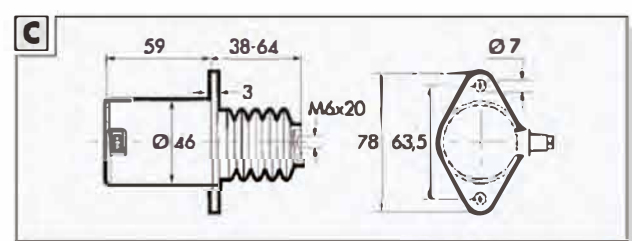
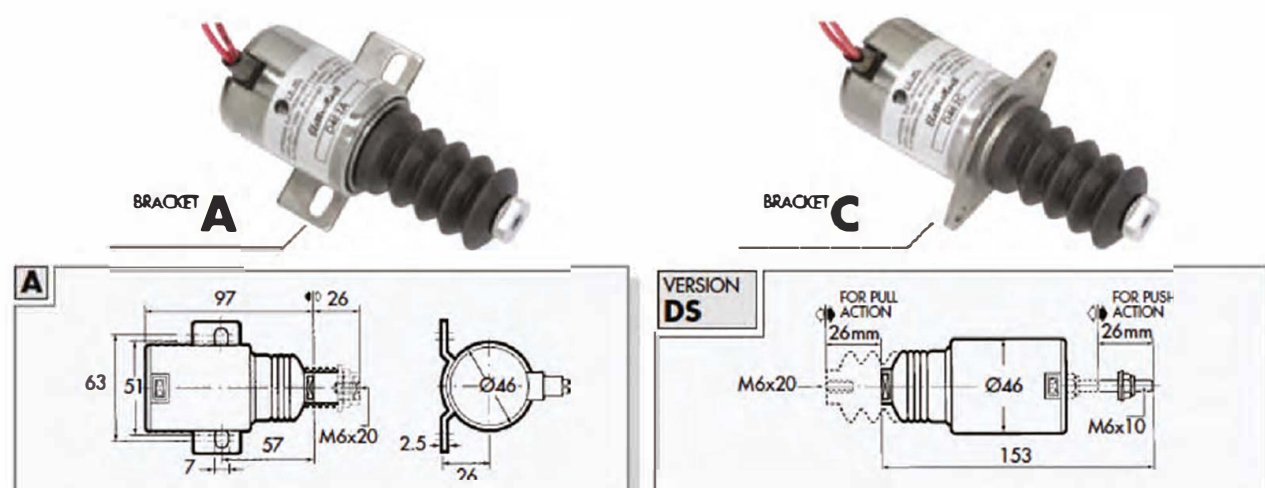
The desired model has to be defined choosing one option in every column, building in this way the solenoid code.

Versions	Voltages	Circuits	Brackets	Optional Springs	Electrical connections
E46 pull action	1 = 12 V DC	1 = Series 1	A	M1	Standard Cables
ES46 pull-push action (only series 3)	2 = 24 V DC	2 = Series 2	C	M2	
		3 = Series 3	C2	M3	

Elettrostart family D - DS - 46

Elettrostart family E - ES - 50

SINGLE COIL SOLENOID FOR INTERMITTENT DUTY



SPECIFICATIONS

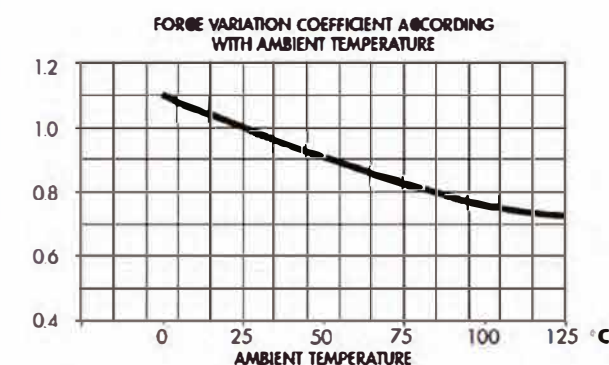
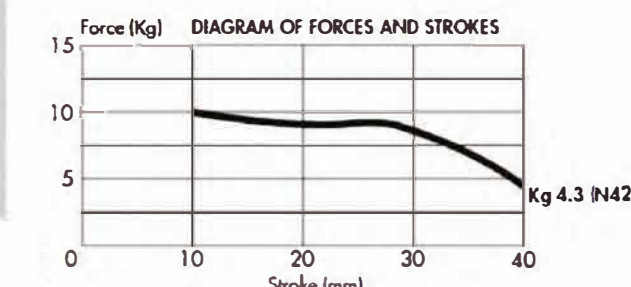
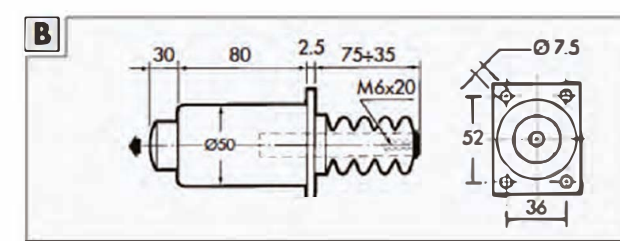
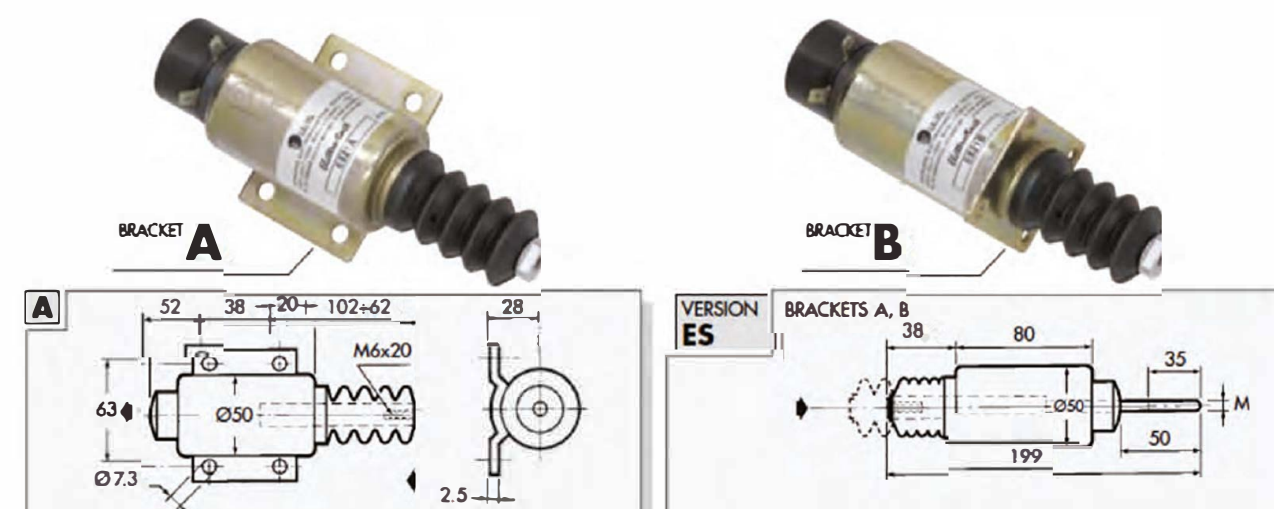
Rated voltage	12 V DC	24 V DC
Pull current	27 A	13 A
Duty service	Intermittent	
Stroke	26 mm	
Force at starting	7 Kg	
Windings insulation class	H (180° C)	
Ambient temperature	-40° C ÷ 120° C	
Weight	0.74 Kg	

AVAILABLE OPTIONS

The desired model has to be defined choosing one option in every column, building in this way the solenoid code.

Versions	Voltages	Circuits	Brackets	Optional Springs	Electrical connections
D46 pull action	1 = 12 V DC	Series D	A	M1	Standard Cables
DS46 pull-push action	2 = 24 V DC		C	M2	

DUAL COIL SOLENOID FOR PULL ACTION OR PULL-PUSH ACTION



SPECIFICATIONS

Rated voltage	12 V DC	24 V DC
Pull current	41 A	23 A
Hold current	0.50 A	0.28 A
Duty service	Continuous (100%)	
Stroke	40 mm	
Force at starting	4.3 Kg	
Windings insulation class	H (180° C)	
Ambient temperature	-40° C ÷ 120° C	
Weight	1.18 Kg	

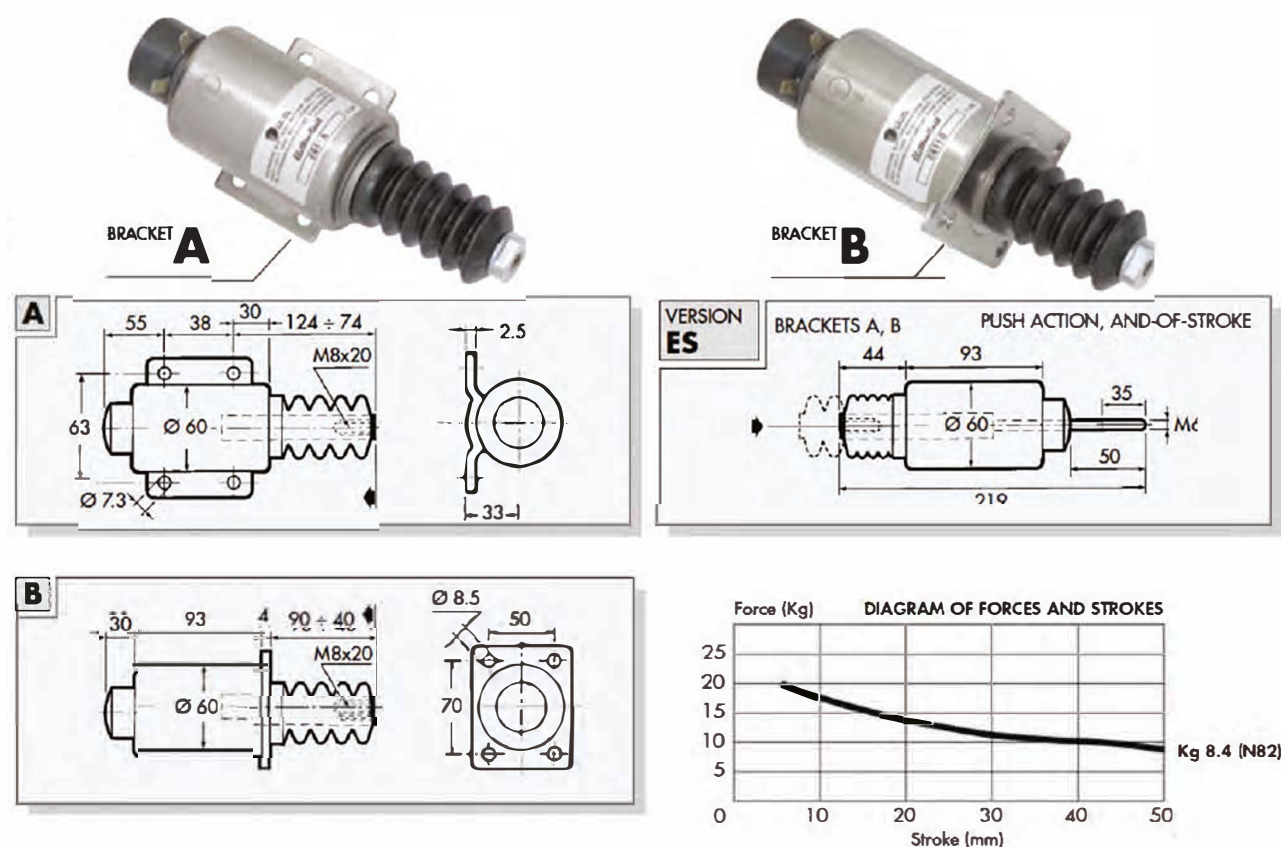
AVAILABLE OPTIONS

The desired model has to be defined choosing one option in every column, building in this way the solenoid code.

Versions	Voltages	Circuits	Brackets	Optional Springs	Electrical connections
E5 pull action	1 = 12 V DC	1 = Series 1	A	M1	Standard Faston
ES5 pull-push action	2 = 24 V DC	2 = Series 2	B	M2	F = Cables
		3 = Series 3		M3	V = Faston - screws
				M4 (external)	

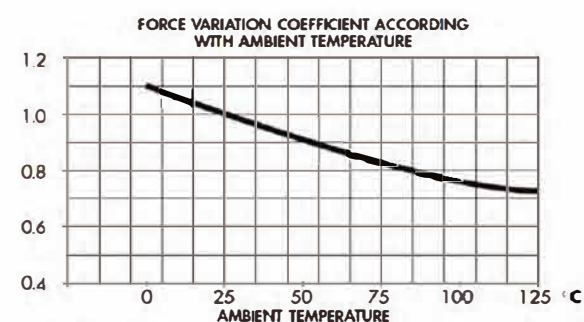
Elettrostart family E - ES - 60

SINGLE COIL SOLENOID FOR INTERMITTENT DUTY



SPECIFICATIONS

Rated voltage	12 V DC	24 V DC
Pull current	47 A	24.5 A
Hold current	0.65 A	0.30 A
Duty service	Continuous (100%)	
Stroke	50 mm	
Force at starting	8.4 Kg	
Windings insulation class	H (180° C)	
Ambient temperature	-40° C ÷ 120° C	
Weight	1.95 Kg	



AVAILABLE OPTIONS

The desired model has to be defined choosing one option in every column, building in this way the solenoid code.

Versions	Voltages	Circuits	Brackets	Optional Springs	Electrical connections
E6 pull action	1 = 12 V DC	1 = Series 1	A	M1	Standard Faston
ES6 pull-push action	2 = 24 V DC	2 = Series 2	B	M3 (external)	F = Cables
		3 = Series 3			V = Faston - screws

Notes:

Notes: