

► MAIN BENEFITS



Maximized electrical performance

Effective breakdown: rotary, double per pole and at high-speed.

Contact resistance is kept unchanged throughout operations thanks to a full optimized rotary break that restricts contact wear. Thermal performance and power losses are therefore stable over time.



High safety level

Fast breaking is ensured by a powerful spring mechanism.

Movable magnets improve arc extinction, creating a rotating magnetic field.



Suitable for extreme environments

Designed for having an excellent performance even in severe conditions.

High temperature withstand, up to 70 °C.



Compact design

Up to 500A - 1500 Vdc in a 2 pole device with a small footprint.



Longer life

Fast breaking capacity helps to reduce the contact wear and, consequently, ensures a longer life.



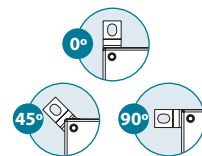
Easy to install

A reduced footprint, multiple mounting configurations and a non-polarized wiring all help to reduce installation time and space.

All mounting orientations are possible.

Electrical spacings are thoughtfully over engineered, resulting in an upgraded wiring space.

Bridging links are not required, avoiding potential hot spots and simplifying the installation in cost and time.



► RANGE

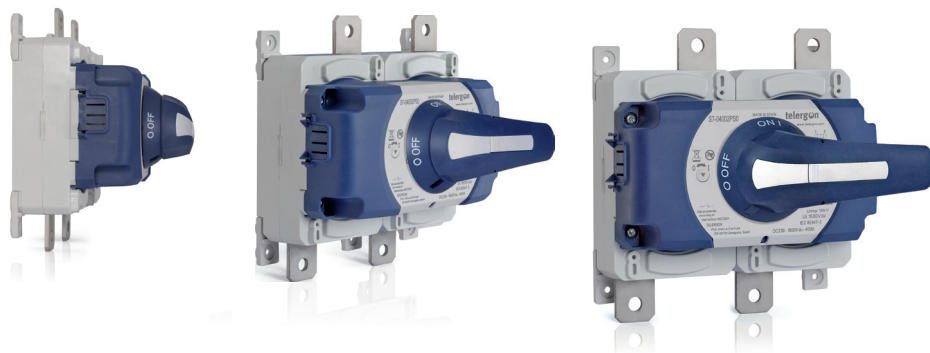
Standard	Amperage	Connection	Code
IEC60947-3 (DC-21B)	400 A 500 A	30 mm 35 mm	S7-04002PS0 S7-05002PS0
UL98B	400 A	30 mm	S7-04002PS00L

* Patented technology US 10,269,512 B2

► ACCESSORIES

Item	Description	Code
	Direct handle	DS-SI11
	External handle (with shaft included)	DS-SA11
	Auxiliary contacts 1NO + 1NC (one or two auxiliary contacts)	DM-AU11 DM-AU12
	Captive nut * M10 M12	DM-PT11 DM-PT12

* IEC only



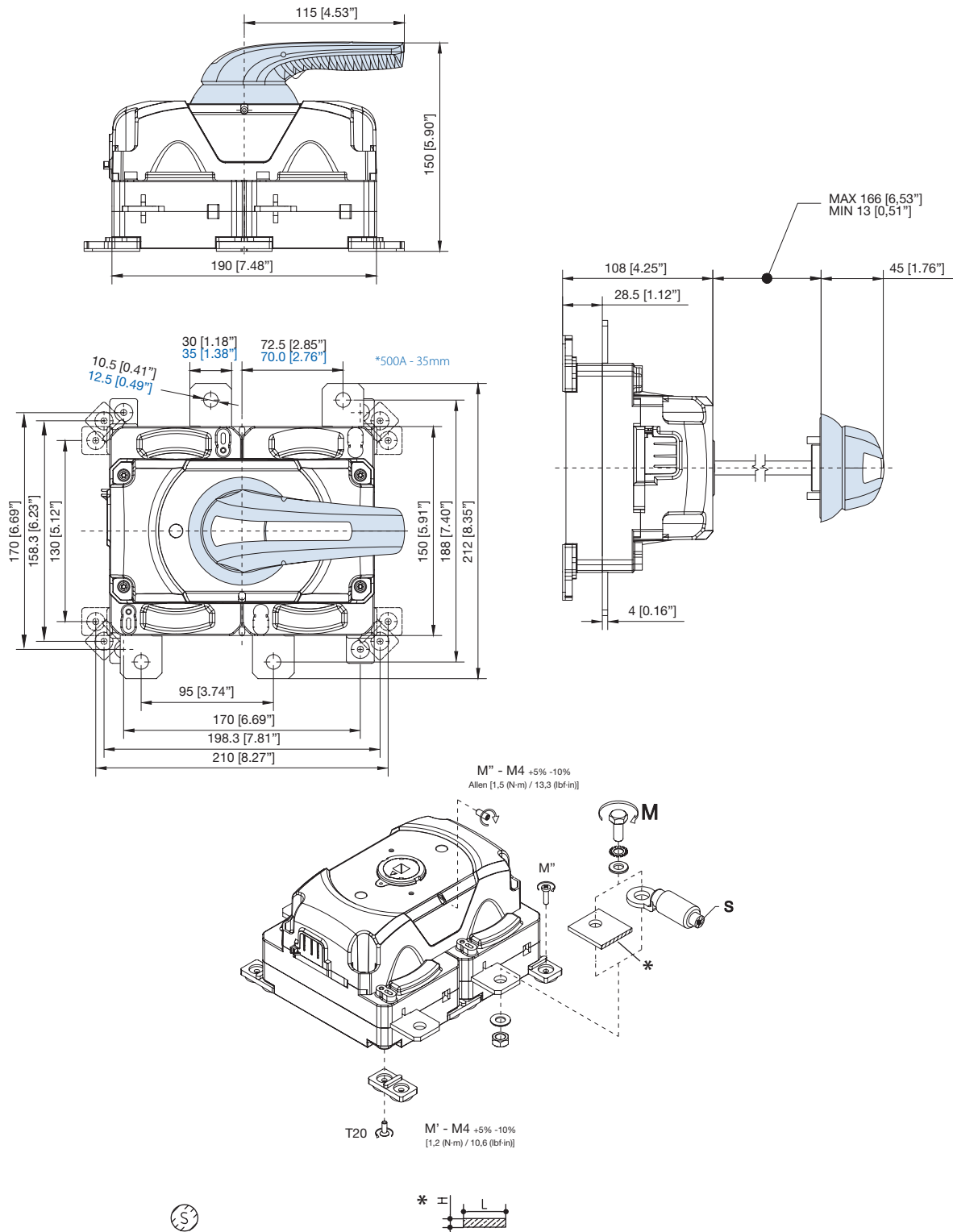
► TECHNICAL DATA

IEC 60947-3 (DC-21B)		Type			400 A	500 A
Electrical characteristics	Rated thermal current HR 50%	I _{th}	40 °C	400 A	500 A	
			50 °C			
			60 °C			
			70 °C			
	Rated insulation voltage (DC)	U _i			1500 Vdc	
Rated dielectric strength	50 Hz, 1 min.			5000 V		
Rated impulse withstand voltage	U _{imp}			12 kV		
Rated operational current (DC)	I _e (A)	1500V	DC21B	400	500	
Short circuit behaviour	Rated short-circuit making capacity (peak value)	I _{cm}	kA (peak)		10	
	Rated short-time withstand current (1s)	I _{cw}	kA rms		10	
Power losses	Power losses	W loss/ pole			10,51	16,53
Mechanical data	Maximum number of operations without load	Cycles			1000	
	Maximum weight	Kg			≈2,7	
Connection capacity	Rigid cable min / max	mm ²			240 / 300	300 / 300
	Min. usbar (thickness/width)	mm			2 x (4/30)	2 x (5/32)
	Max. connecting copper bar	mm			2 x (5/35)	2 x (5/35)
	Tightening torque (+5% / -10%)	Nxm			18	24

UL98B*		Type		400 A
Electrical characteristics	Rated thermal current (-20 °C to +50 °C) HR 50%	I _{th}		400 A
	Rated operational current (DC)	I _e (A)		400
Short circuit behaviour	Rated short-time withstand current (0.05s)	I _{cw}	kA rms	10
Power losses	Power losses	W loss/ pole		10,51
Mechanical data	Minimum number of mechanical operations	Cycles		400
	Maximum number of electrical operations			400
	Maximum weight	Kg		≈2,7
Connection capacity	Busbar (thickness/width)	mm		2 x 4/32
	Max. connecting copper bar	mm		32
	Tightening torque (+5% / -10%)	Nxm		18

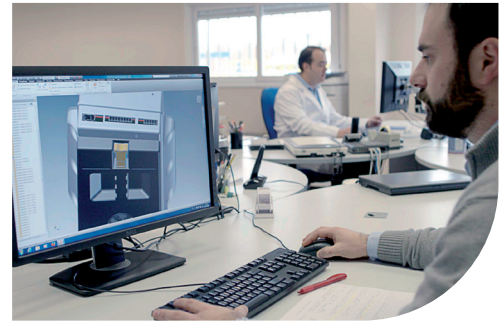
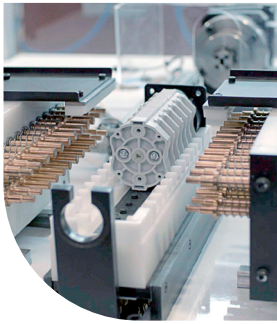
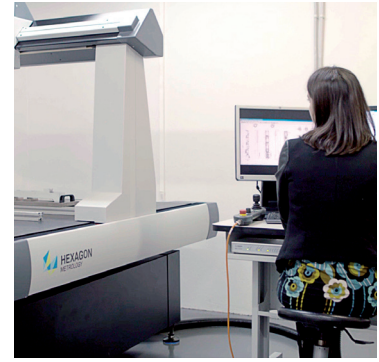
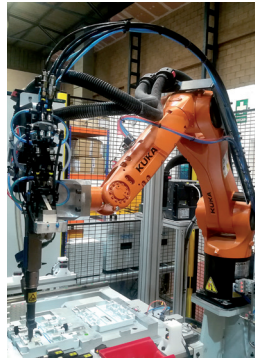
* Under certification process

► DIMENSIONS



lth	S min		H min/max		L max		T	M ^{+5%} _{-10%}	
	mm ²	MCM	mm	in	mm	in		Nxm	lbf-in
400A	240	400	min. 4 max. 5	min 2x4/30 max 2x5/35	32	1-1/4	M10	18	159
500A	300	500	min. 5 max. 5	min 2x5/32 max 2x5/35			M12	24	212

Due to the continuous improvement & modifications of our products, the details included in this catalogue can be modified at any time without prior consent.



As the switch specialist, we design and manufacture low voltage switchgear solutions. We anticipate our customers' needs and offer electromechanical products for industrial applications, utilities, railway and green energy sector.

Telergon is an innovative, **customer orientated** firm and we are strongly committed to R&D as a tool to boost the future of the industry. Due to this attitude, the company offers a wide range of **standard** products but also the possibility to **customize** them according to special requirements.

Our knowledge, acquired through an experience of **more than 65 years**, together with the involvement of its highly qualified professionals, has allowed Telergon to be present in **more than 100 countries**, always providing the best service and working under the strictest **quality** standards.

Product range

- Cam switches
- Manual & motorized load break switches
- Fuse switches
- Manual & motorized changeover switches
- DC switch-disconnectors

Quality Telergon



General standards*



* Please, consult.

Other independent standards



Test in independent laboratories



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