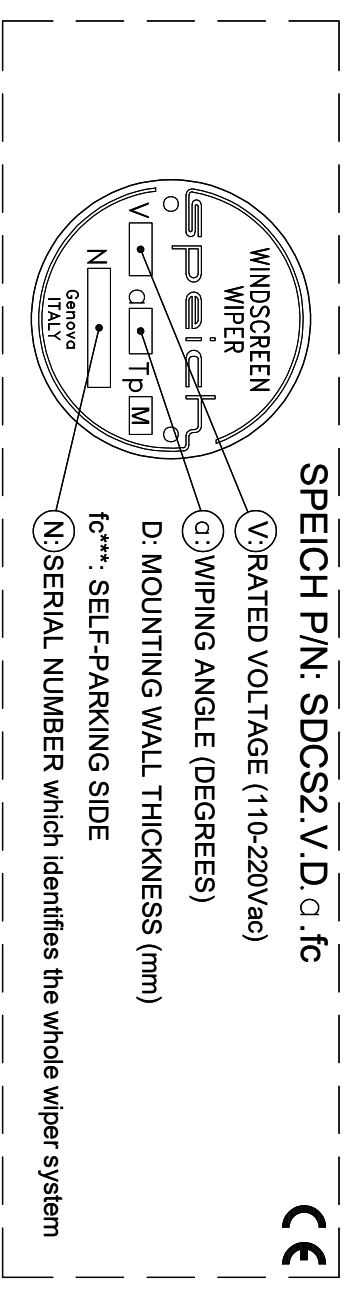
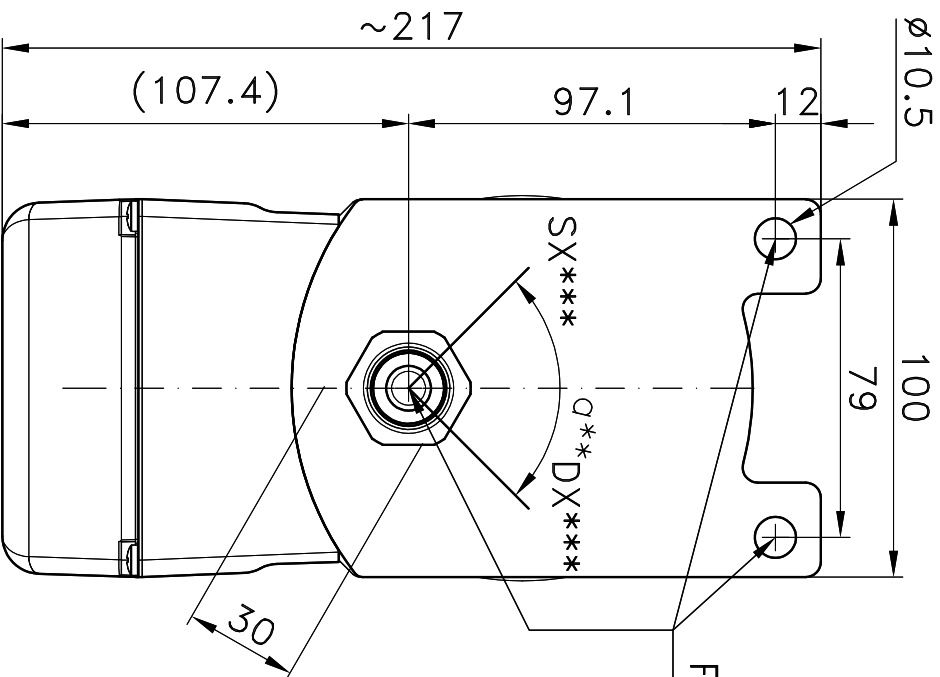
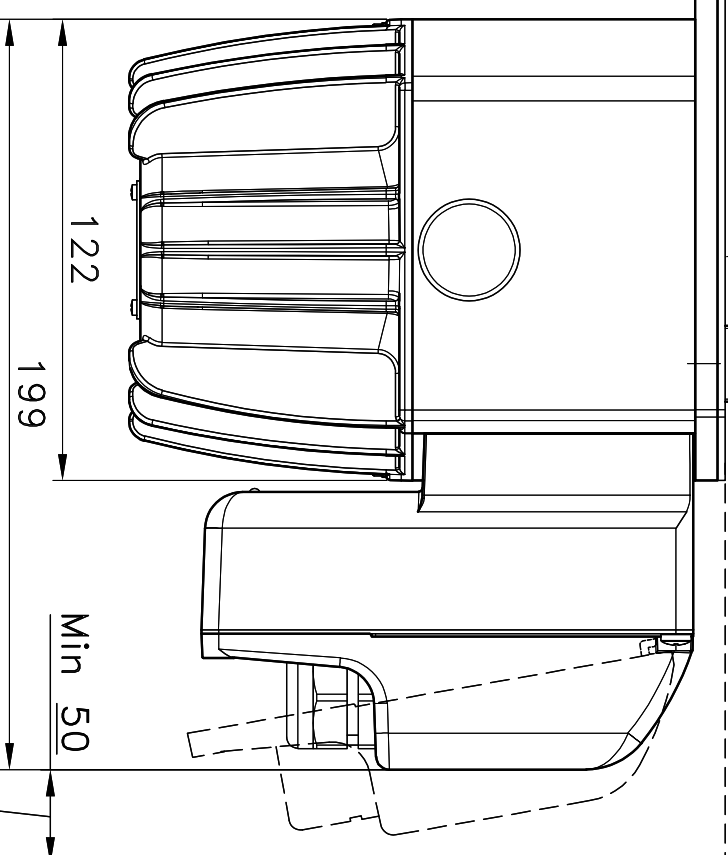
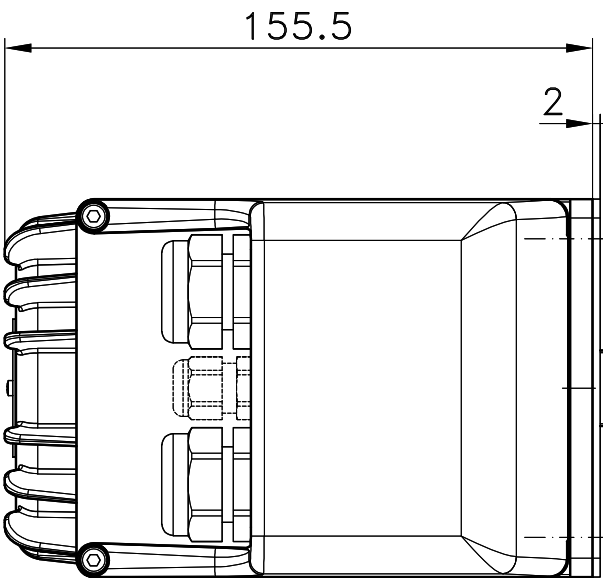
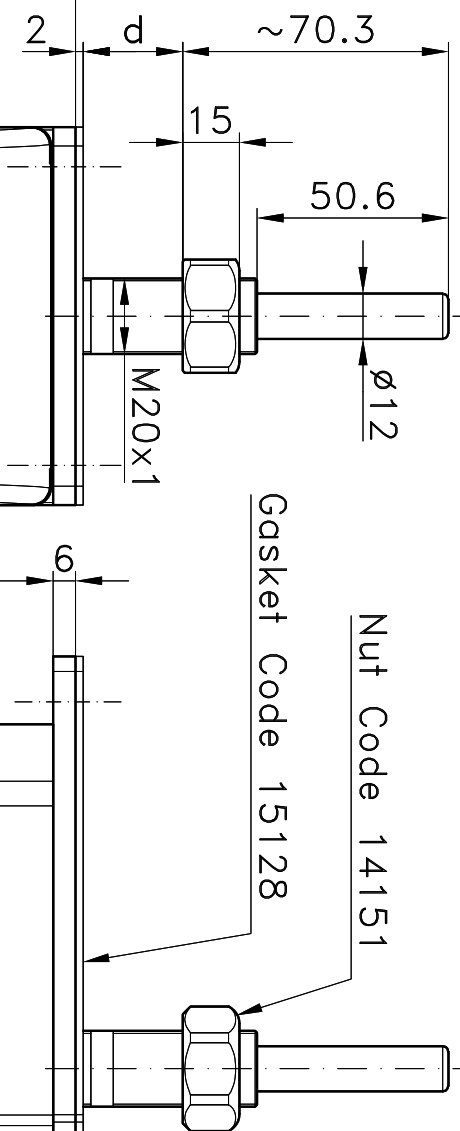




GENERAL NOTES	
No.	DESCRIPTION
1	All dimensions are in mm unless otherwise stated
2	General tolerances according to UNI EN 22768-mk
3	Refer to the manual for not stated tightening torques

TECHNICAL FEATURES				REVISIONS HISTORY				
No.	DESCRIPTION	VALUE	No.	DATE	DESIGNER	CHECK	REMARKS	
1	Available rated voltage	110-220Vac	0	12/12/11	M. Lunardi	M. Speich	First issue	
2	Torque	11Nm nominal, 45Nm starting	1	13/09/16	M. Lunardi	M. Speich	General review	
3	Power	85W nominal, 300W starting	2	22/01/18	M. Lunardi	R. Speich	Added setup for heated arms	
4	Voltage range	±10%	DRAWING CONFIDENTIALITY STATEMENT					
5	Strokes for minute	47±3	THIS DRAWING BELONGS TO SPEICH S.R.L. COMPANY. ANY REPRODUCTION OR COMMUNICATION WITHOUT EXPLICIT AUTHORIZATION IS STRICTLY FORBIDDEN					
6	Bushing for wall thickness D	10÷100 mm, step 10 mm		MATERIAL	TREATMENT	TOTAL WEIGHT	TECHNICAL MANUAL TM-MotorSDCS2	
7	Wiping angle	30° ÷ 105°, step 5°		-	Grey painted	~4800g		
8	Self parking	Available left side or right side	TITLE		DRAWING N°		Rev.	
9	Working temperature	-30° ÷ +45°C	WIPER MOTOR TYPE SDCS2 110/220Vac		PDS-MotorSDCS2		2	
10	Insulation class	F	REFERENCE					
11	Protection degree	IP50 (case), IP68 (axle)	TECHNICAL DATASHEET					
12	Compliance	IEC 60945 ; ISO 17899	PROJECT					
*) NOTE: MOTOR INSTALLATION MUST PREVENT WATER SKETCHES AND INFILTRATIONS IN MOTOR CASE			WINDSCREEN WIPER SYSTEM SDCS2			Scale	Size	Sheet
						1:2	A3	1 of 2

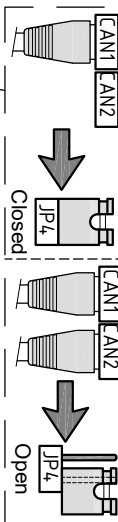
CAN CONNECTION*

FTP CAT5e CABLE	
CABLE TERMINATIONS	
1568A	1568B
1 CANH	WHITE-ORANGE
2 CANL	GREEN
3 GND	WHITE-ORANGE
4 GND	BLUE
5 GND	WHITE-BLUE
6 GND	ORANGE
7 +24V	WHITE-BROWN
8 +24V	BROWN

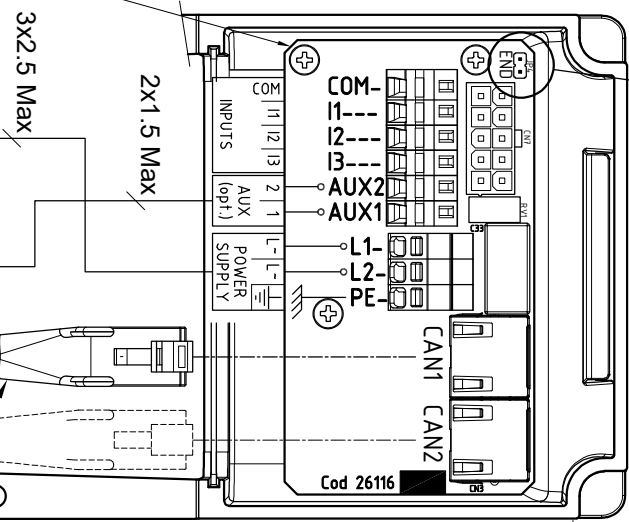
*) 8P8C (RJ45) plug: both cable ends must have the same termination, according to EIA/TIA-568 for straight cables. It is **STRONGLY RECOMMENDED** the use of factory pre-cabled patchcords.

It is **MANDATORY** the use of shielded FTP cables and connectors, and PE connection to Earth, to keep the control box warranty valid.
Total length of CAN connections **MUST NOT EXCEED 200MT.**

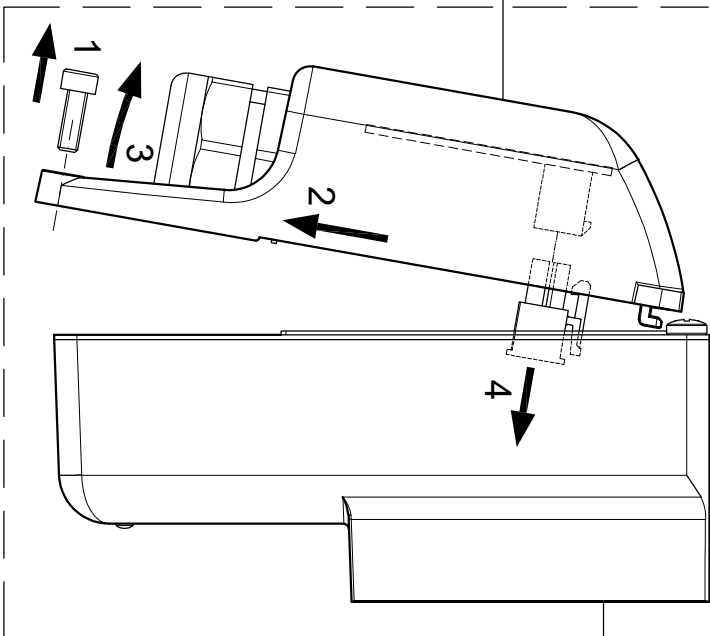
CAN TERMINATION



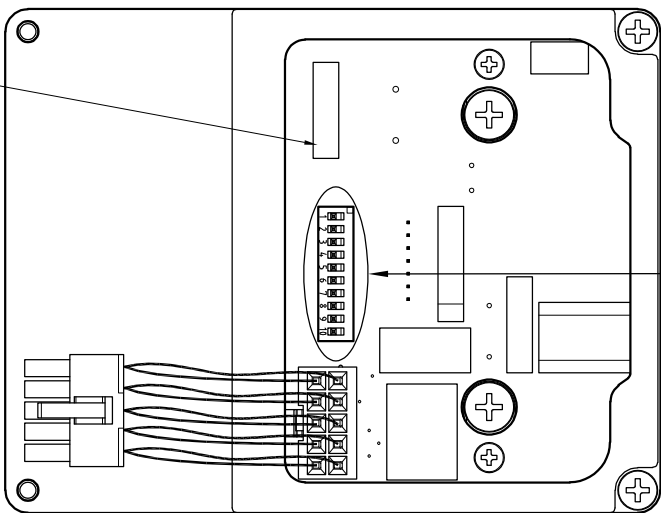
WIRING DIAGRAM



ELECTRIC BOX OPENING



CONTROLLER PCB 26119



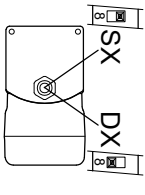
CONTROL UNIT SETUP

Group ID		Motor ID	
0	4 5 6 7	8	4 5 6 7
1	4 3 6 7	9	4 3 6 7
2	4 5 6 7	10	4 5 6 7
3	4 3 6 7	11	4 3 6 7
4	4 5 6 7	12	4 5 6 7
5	4 5 6 7	13	4 5 6 7
6	4 5 6 7	14	4 5 6 7
7	4 5 6 7	15	4 5 6 7

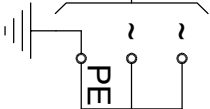
• **Group ID:** it associates the motor to a specific zone button of the control panel: refer to control panel documentation.

• **Motor ID:** each must be assigned to **only one** motor inside the same Group, in any order.

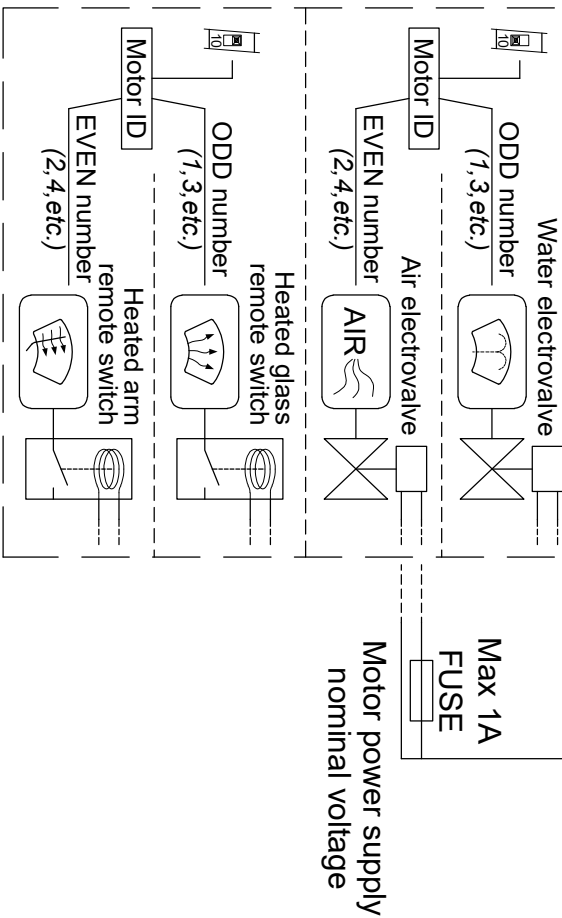
Self-parking side ➡



Shared AUX ➡ The unit controls auxiliaries for all groups

POWER SUPPLY
110-220VAC

AUX (Optional)



DRAWING CONFIDENTIALITY STATEMENT
THIS DRAWING BELONGS TO SPEICH S.R.L. COMPANY. ANY REPRODUCTION OR COMMUNICATION WITHOUT EXPLICIT AUTHORIZATION IS STRICTLY FORBIDDEN

	MATERIAL	TREATMENT	TOTAL WEIGHT	TECHNICAL MANUAL
	-	Grey painted	~4800g	TM-MotorSDCS2

TITLE	WIPER MOTOR TYPE SDCS2 110/220Vac	DRAWING N°	Rev.
REFERENCE	TECHNICAL DATASHEET	PDS-MotorSDCS2	2

PROJECT	WINDSCREEN WIPER SYSTEM SDCS2	Scale	Size	Sheet
		1:2	A3	2 of 2



PDS-MotorSDCS2

Rev.

2

2 of 2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

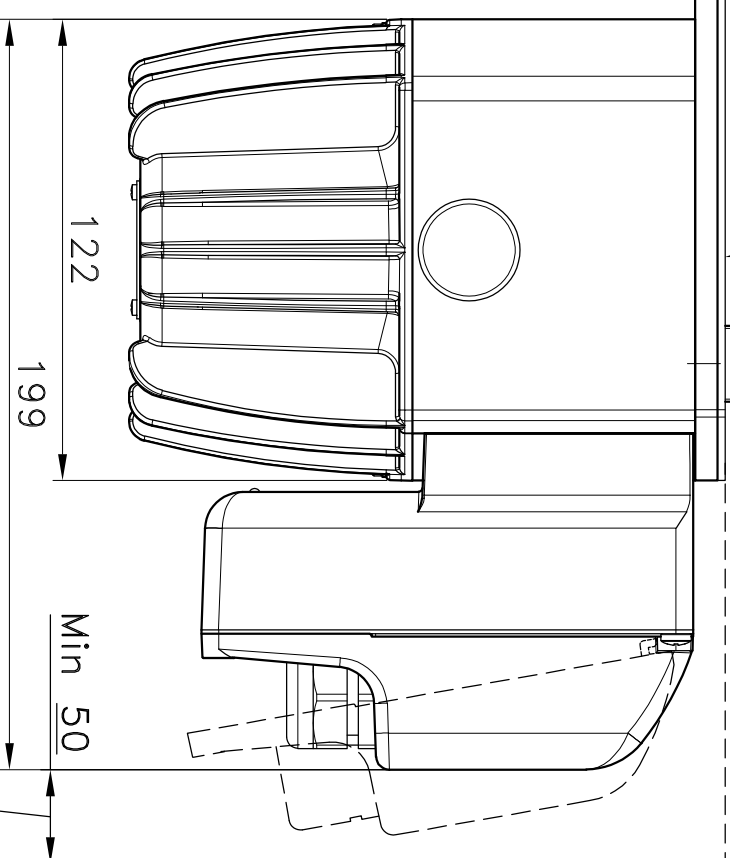
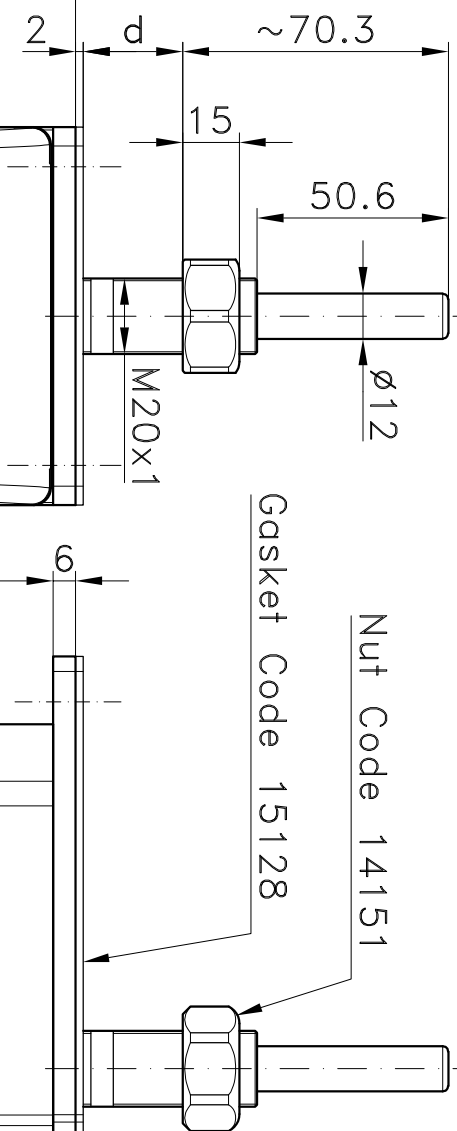
2

2

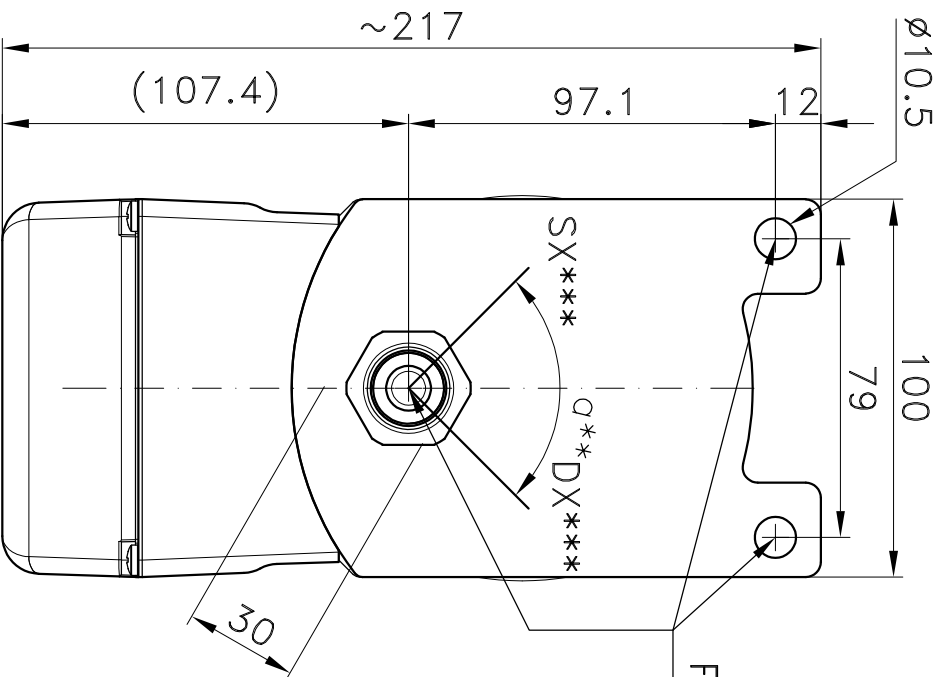
2

2

2



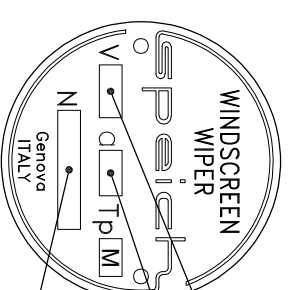
Needed room to open
the electric box



TECHNICAL FEATURES		
No.	DESCRIPTION	VALUE
1	Available rated voltage (V)	24Vdc
2	Torque	11Nm nominal, 45Nm starting
3	Power	85W nominal, 300W starting
4	Voltage range	±10%
5	Strokes for wall thickness	47±3
6	Bushing for wall thickness (D)	10÷100 mm, step 10 mm
7	Wiping angle (α)	30° ÷ 105°, step 5°
8	Self parking	Available left side or right side
9	Working temperature	-30° ÷ +45°C
10	Insulation class	F
11	Protection degree	IP50 (case), IP68 (axle)
12	Compliance	IEC 60945 ; ISO 17899

*1) NOTE: MOTOR INSTALLATION MUST PREVENT WATER SKETCHES AND INFILTRATIONS IN MOTOR CASE

REVISIONS HISTORY				
No.	DATE	DESIGNER	CHECK	REMARKS
0	12/12/11	M. Lunardi	M. Speich	First issue
1	13/09/16	M. Lunardi	M. Speich	General review
2	22/01/2018	M. Lunardi	R. Speich	Added setup for heated arms
DRAWING CONFIDENTIALITY STATEMENT				
THIS DRAWING BELONGS TO SPEICH S.R.L. COMPANY. ANY REPRODUCTION OR COMMUNICATION WITHOUT EXPLICIT AUTHORIZATION IS STRICTLY FORBIDDEN				
	MATERIAL	TREATMENT	TOTAL WEIGHT	TECHNICAL MANUAL TM-MotorSDCS2
	-	Grey painted	~4800g	
TITLE		DRAWING N°		
WIPER MOTOR TYPE SDCS2 24Vdc		PDS-MotorSDCS2.024		Rev. 2
REFERENCE				
TECHNICAL DATASHEET				
PROJECT				
WINDSCREEN WIPER SYSTEM SDCS2				
		Scale	Size	Sheet
		1:2	A3	1 of 2



SPEICH P/N: SDCS2.V.D. 0.fc



V: RATED VOLTAGE (110-220Vac)

α: WIPING ANGLE (DEGREES)

D: MOUNTING WALL THICKNESS (mm)

fc***: SELF-PARKING SIDE

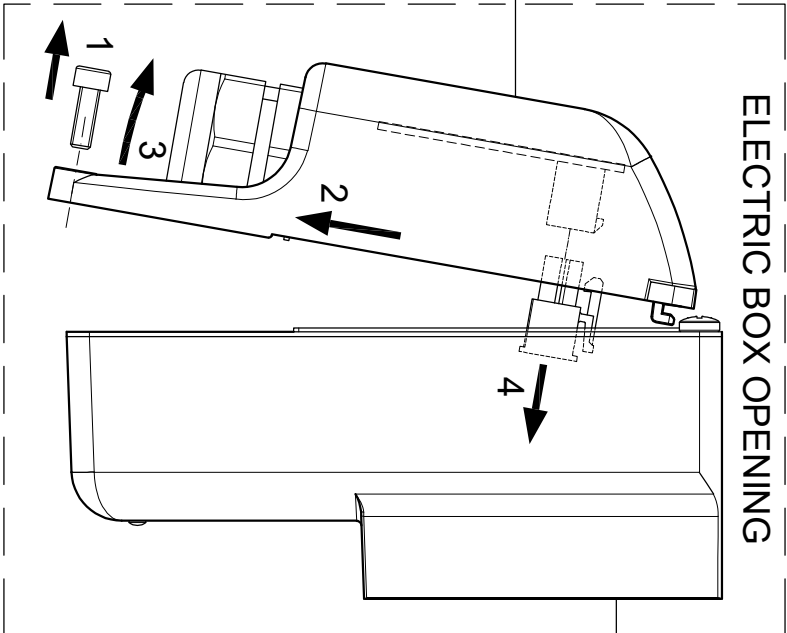
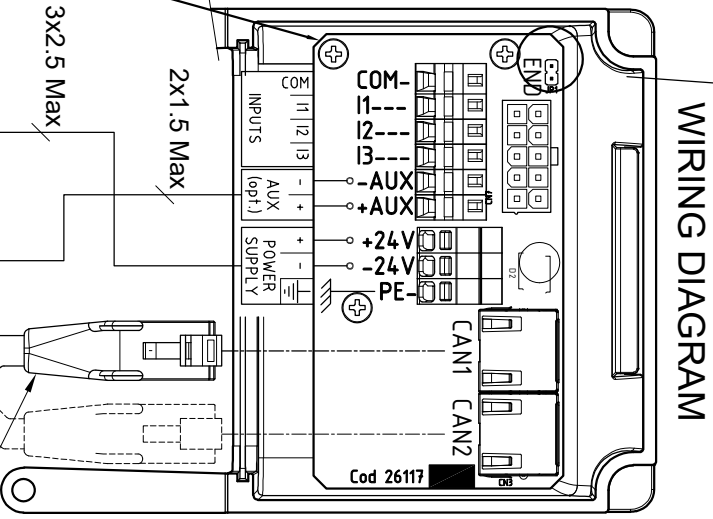
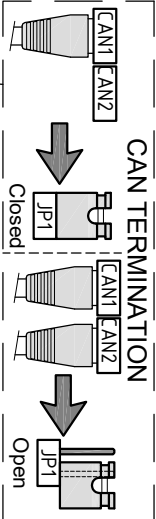
N: SERIAL NUMBER which identifies the whole wiper system

GENERAL NOTES	
No.	DESCRIPTION
1	All dimensions are in mm unless otherwise stated
2	General tolerances according to UNI EN 22768-mk
3	Refer to the manual for not stated tightening torques

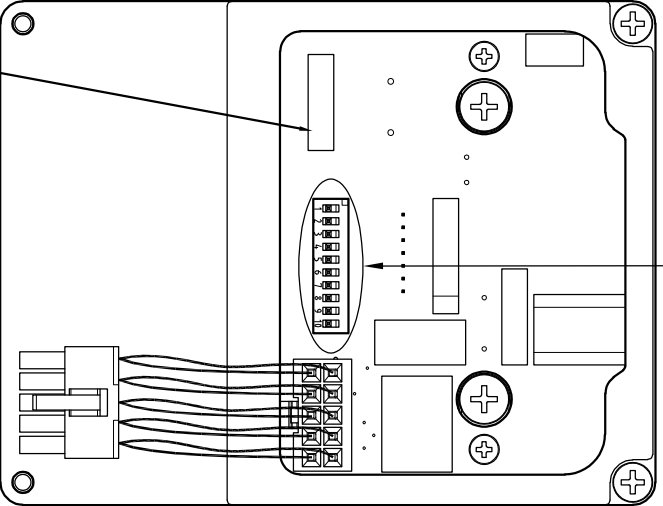
CAN CONNECTION*		
FTP CAT5e CABLE		
CABLE TERMINATIONS	T568B	
1 CANH	WHITE-GREEN	WHITE-ORANGE
2 CANL	GREEN	ORANGE
3 GND	WHITE-ORANGE	WHITE-GREEN
4 GND	BLUE	BLUE
5 GND	WHITE-BLUE	WHITE-BLUE
6 GND	ORANGE	GREEN
7 +24V	WHITE-BROWN	WHITE-BROWN
8 +24V	BROWN	BROWN

*) 8P8C (RJ45) plug: both cable ends must have the same termination, according to EIA/TIA-568 for straight cables. It is **STRONGLY RECOMMENDED** the use of factory precabled patchcords.

It is **MANDATORY** the use of shielded FTP cables and connectors, and PE connection to Earth, to keep the control box warranty valid.
Total length of CAN connections **MUST NOT EXCEED 200MT**.



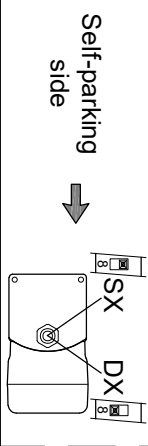
CONTROLLER PCB 26120



CONTROL UNIT SETUP			
Group ID		Motor ID	
0	4 5 6 7	8	4 5 6 7
1	4 5 6 7	9	4 5 6 7
2	4 5 6 7	10	4 5 6 7
3	4 5 6 7	11	4 5 6 7
4	4 5 6 7	12	4 5 6 7
5	4 5 6 7	13	4 5 6 7
6	4 5 6 7	14	4 5 6 7
7	4 5 6 7	15	4 5 6 7

• **Group ID:** it associates the motor to a specific zone button of the control panel: refer to control panel documentation.

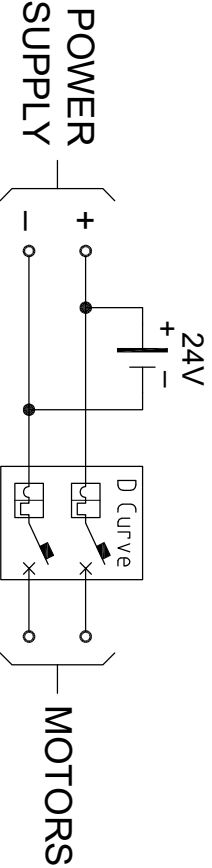
• **Motor ID:** each must be assigned to **only one** motor inside the same Group, in any order.



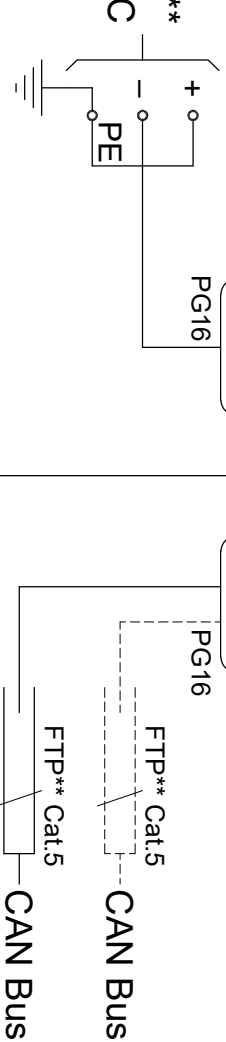
Shared AUX The unit controls auxiliaries for all groups

INSTALLATION NOTE

When parking, the motor generates current spikes due to arm inertia. To avoid damages to ship equipments (e.g. a switch mode power supply), install, if not present yet, a battery to absorb these spikes, upstream of the system switch.

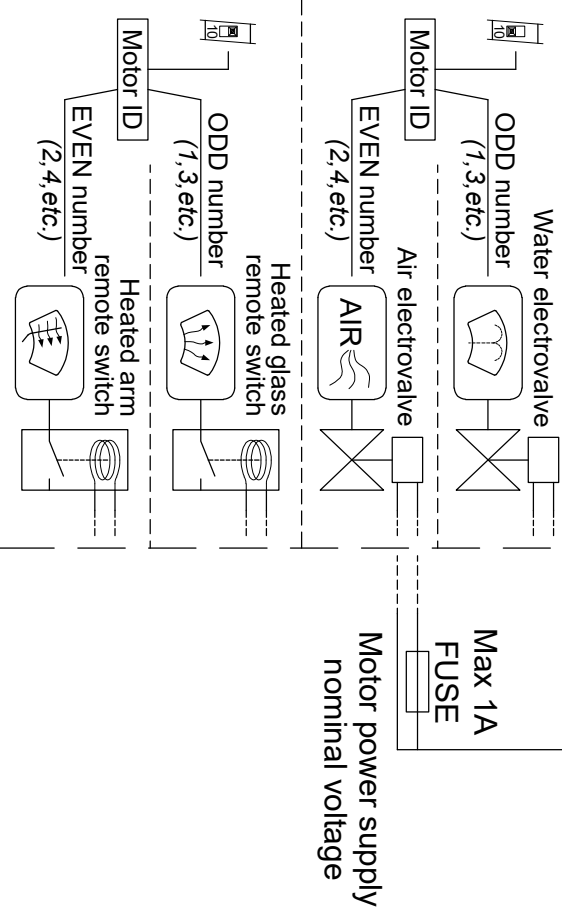


NOTE 2: THE CABLE BLOCK DIAGRAM IS PROVIDED DURING THE PROJECT PHASE



8P8C (RJ45) connector, suitable to pass through a PG16 cable gland

AUX (Optional)



NOTE 2: THE CABLE BLOCK DIAGRAM IS PROVIDED DURING THE PROJECT PHASE

DRAWING CONFIDENTIALITY STATEMENT			
THIS DRAWING BELONGS TO SPEICH S.R.L. COMPANY. ANY REPRODUCTION OR COMMUNICATION WITHOUT EXPLICIT AUTHORIZATION IS STRICTLY FORBIDDEN			
MATERIAL	TREATMENT	TOTAL WEIGHT	TECHNICAL MANUAL
-	Grey painted	~4800g	TM-MotorSDCS2

TITLE		DRAWING N°	
WIPER MOTOR TYPE SDCS2 24Vdc		PDS-MotorSDCS2.024	Rev. 2
REFERENCE		PROJECT	
TECHNICAL DATASHEET		WINDSCREEN WIPER SYSTEM SDCS2	

Scale	Size	Sheet
1:2	A3	2 of 2