Electric controller MCS

Electric controllers are used for actuating/controlling mechatronic modules and systems without integrated electronics. SCHUNK offers these controllers in the versions MCS06 for EVG grippers, and the MCS12 version for EGN/EZN/EVG grippers, and STM rotary modules.

Description of function

The MCS controller is an electronic device that is used to actuate/control mechatronic modules.

Your advantages and benefits

Mounting on DIN rail
for quick installation in the control cabinet

High accuracy and flexibility
for positioning processes with, for example, highly accurate positioning or exact force/torque control

MCDemo setup software
for simple and fast configuration

Field bus communication for Profibus-DP and CAN
for flexible integration into existing systems

Field of application

application in a clean environment in connection with the corresponding SCHUNK grippers or rotary modules

1 2-finger parallel gripper EVG

2 MCS06 controller

General information

Warranty
24 months

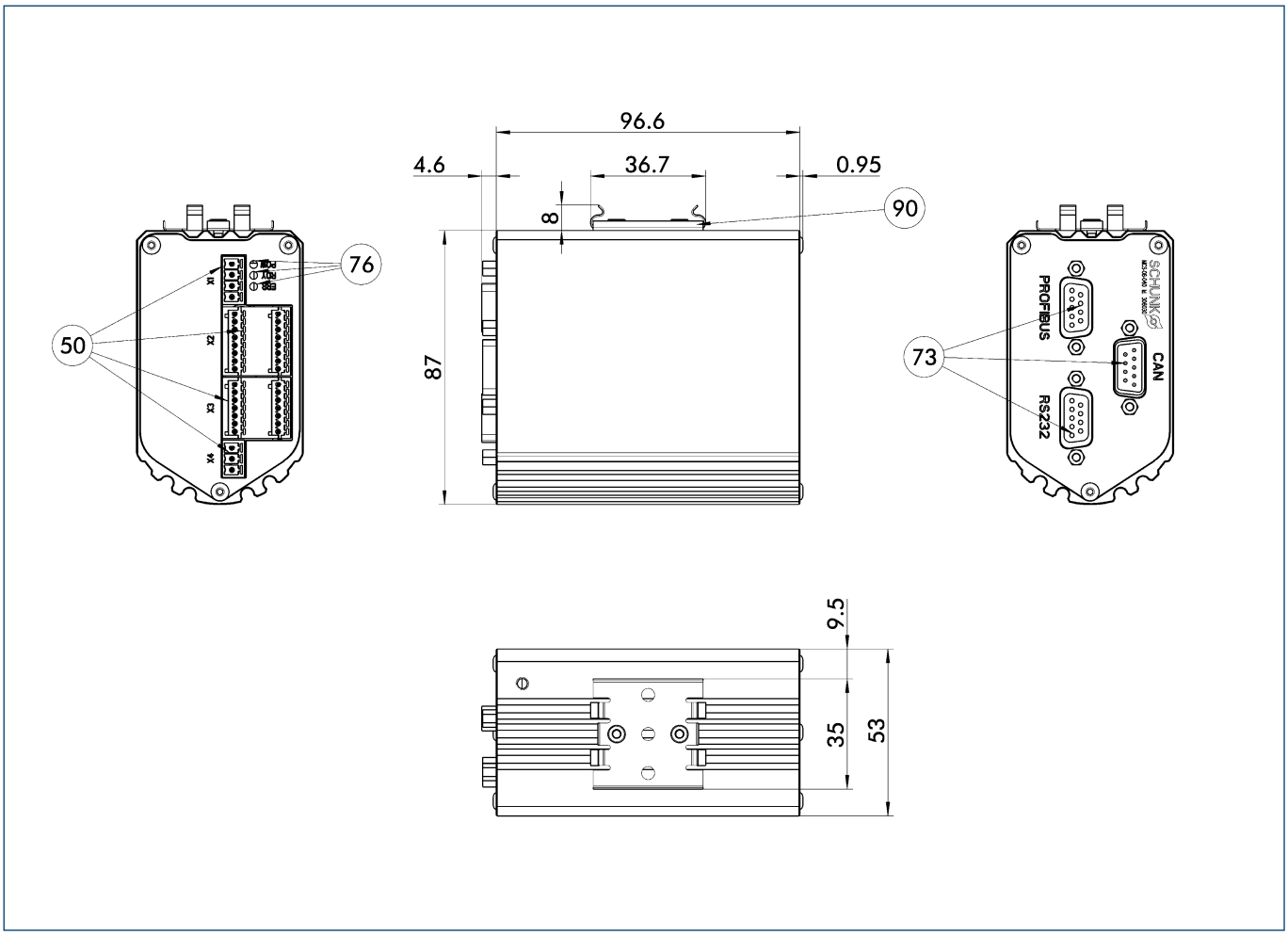
Notes

The MCS06/12 controllers are designed for installation in industrial control cabinets.

Technical data

Description		MCS06	
Version		EVG 55-40	EVG 55-100
ID		0306030	0306031
General technical data			
Protection class		IP30	
Power supply (logic)	[VDC]	24	
Power supply (load)	[VDC]	24	
Nominal/max. current (load)	[A]	4.0/8.5	5.0/8.5
Weight	[kg]	0.46	
Dimensions (W x H x D)	[mm]	53/97/87	
Min./max. ambient temperature	[°C]	5/45	
Type of mounting		DIN rail	
Motors/modules/systems		EVG	
Supported types of encoder		Encoder, resolver	
Control types/functions			
Position control		Yes	
Speed control		Yes	
Current control		Yes	
Force control		Yes, via value of current	
Technological functions		Pseudo absolute-value transducer function, freely programmable operations can be saved, actuation directly or using operations by means of digital I/Os or field bus interface	
Safety functions		-	
Interfaces			
Number of digital inputs/outputs		4/4	
Number of analouge inputs/outputs		-/-	
Type/number/connection of field bus		Profibus-DP/1/SUB-D	
Type/number/connection of field bus		CAN/1/SUB-D	
Type/number/connection of parameterisation		RS232/1/SUB-D	
Type/number/connection of parameterisation		Profibus-DP/-/via field bus connection	
Type/number/connection of parameterisation		CAN/-/via field bus connection	
Tools			
Software		MCDemo setup tool, function block for S7-300/400 for actuation	

Main view

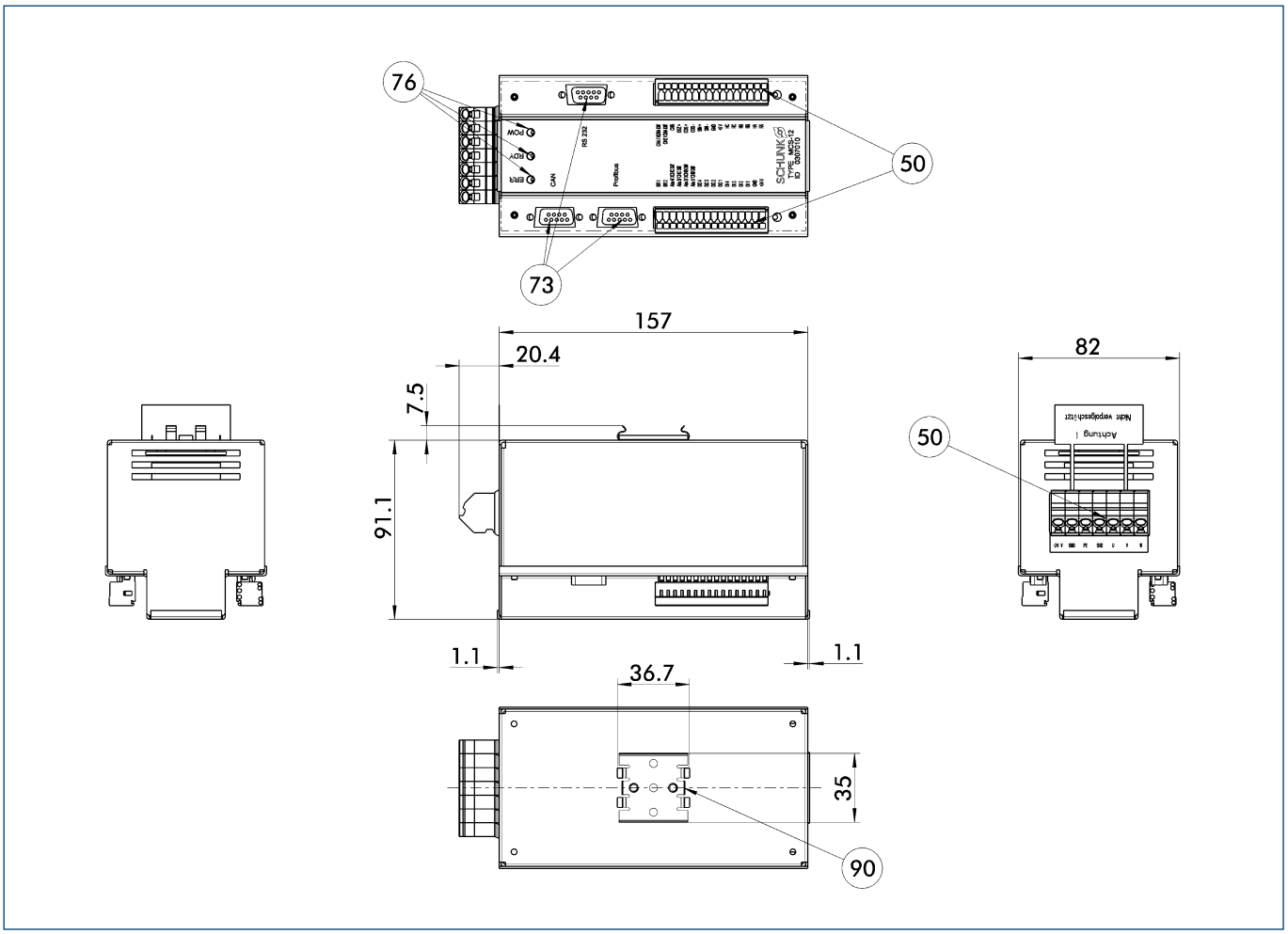


50 Terminal strips
73 Communication interfaces
76 LEDs
90 DIN rail for mounting

Technical data

Description		MCS12			
Version		EGN/EZN	STM 130	STM 170	STM 210
ID		0307010	0307015	0307016	0307017
General technical data					
Protection class		IP30			
Power supply (logic)	[VDC]	24			
Power supply (load)	[VDC]	24	48	48	48
Nominal/max. current (load)	[A]	6.0/8.0	4.2/13.0	6.7/18.8	6.2/24.0
Weight	[kg]	0.98			
Dimensions (W x H x D)	[mm]	82/157/92			
Min./max. ambient temperature	[°C]	5/45			
Type of mounting		DIN rail			
Motors/modules/systems		EGN, EZN, STM (48V DC)			
Supported types of encoder		Encoder, Resolver			
Control types/functions					
Position control		Yes			
Speed control		Yes			
Current control		Yes			
Force control		Yes, using current value			
Technological functions		Pseudo absolute-value transducer function, freely programmable operations can be saved, actuation directly or using operations by means of digital I/Os or field bus interface			
Safety functions		-			
Interfaces					
Number of digital inputs/outputs		4/4			
Number of analouge inputs/outputs		-/-			
Type/number/connection of field bus		Profibus-DP/1/SUB-D			
Type/number/connection of field bus		CAN/1/SUB-D			
Type/number/connection of parameterisation		RS232/1/SUB-D			
Type/number/connection of parameterisation		Profibus-DP/-/via field bus connection			
Type/number/connection of parameterisation		CAN/-/via field bus connection			
Tools					
Software		MCDemo setup tool, function block for S7-300/400 for actuation			

Main view



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