

Motor starters for use in the field, high degree of protection

SIRIUS M200D motor starters

M200D motor starters for AS-Interface



SIRIUS M200D
AS-i Basic



SIRIUS M200D
AS-i Standard

Device functions (firmware features)

Slave on the bus

Fieldbus	✓ AS-i	
Slave type	✓ A/B according to Spec. 2.1	✓ A/B according to Spec. 3.0
Profile	✓ 7.A.E	✓ 7.A.E & 7.A.5
Number of assigned AS-i addresses on the bus	✓ 1	✓ 2
Number of stations per AS-i master	✓ Maximum 62 devices	✓ Maximum 31 devices
AS-i master profile	✓ M3 and higher	✓ M4 and higher

Parameterization

DIP switches	✓	--
Potentiometer for rated operational current	✓	--
Motor Starter ES	--	✓
Data records via AS-i	--	✓

Diagnostics

Diagnostics via parameter channel	✓	
Acyclic through data records	--	✓
Extended process image PII 4 bytes	--	✓

Process image

Process image	✓ 4I/3O	✓ 6I/4O
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Data channels

Local optical interface (manual mode local)	✓	
AS-i bus	✓	
Motor Starter ES via local interface	--	✓
Motor Starter ES via bus	--	

Data records¹⁾ (acyclic)

Parameterization	--	✓
Diagnostics	--	✓
Measured values	--	✓
Statistics	--	✓
Commands	--	✓

Inputs

Number	✓ 4	
• Of which in the process image	✓ 2 via AS-i	✓ 4 via AS-i
Input action	✓ For permanently assigned functions, see manual²⁾	✓ Parameterizable: flexible
Quick stop	✓ Permanent function: latching, edge-triggered	✓ Parameterizable function: latching (edge-triggered), non-latching (level-triggered)

Outputs

Number	✓ 1	
Output action	✓ Permanent function: assigned with group fault	✓ Parameterizable: For function, see manual³⁾

Brake output

180 V DC / 230/400 V AC / none	✓	
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Motor protection

Overload protection	✓ Solid-state, wide range 1:10	
Short-circuit protection	✓	
Full motor protection	✓	
Temperature sensor	✓ Parameterizable using DIP switches: PTC or Thermoclick or deactivated	✓ Parameterizable using Motor Starter ES, data record: PTC or Thermoclick or deactivated

✓ Function is available

-- Function is not available

¹⁾ The data records are a reduced selection compared to PROFIBUS/PROFINET.

²⁾ <http://support.automation.siemens.com/WW/view/de/35016496>

³⁾ <http://support.automation.siemens.com/WW/view/de/38722160>

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Device function

Repair switch	✓	
Lower current limit monitoring	--	✓ Parameterizable
Upper current limit monitoring	--	✓ Parameterizable
Residual current detection	✓ Permanent function: disconnection, less than 18.75% of the rated operational current I_e	✓ Parameterizable
Blocking current	✓ Permanent function: Motor startup: tripping limit up to 800% of the rated operational current I_e for 10 s Active operation: Threshold for tripping "blocking current" up to 400% of the rated operational current I_e	✓ Parameterizable
Asymmetry	✓ Permanent function: Up to 30 % of the rated operational current I_e (only mechanical MS)	✓ Parameterizable
Load type	✓ Permanent function: 3-phase	✓ Parameterizable: 1 and 3-phase
Tripping class	✓ Parameterizable using DIP switches: CLASS 10/deactivated	Parameterizable using Motor Starter ES, data record: CLASS 5, 10, 15, 20
Protection against voltage failure	✓	✓ Parameterizable: Activated/deactivated
Soft starter control function		
Soft start function	--	✓ Only solid-state version
Bypass function	--	✓ Only solid-state version

✓ Function is available

-- Function is not available