

For use in the control cabinet

ET 200S motor starters and safety motor starters

General data



SIMATIC ET 200S
Standard motor starters



SIMATIC ET 200S
High Feature motor starters¹⁾

Device functions (firmware features)		
Slave on the bus		
Fieldbus	✓	Dependent on interface module
Parameterization		
PROFIBUS/PROFINET data records	--	✓
Parameterization using data record start	--	✓
Diagnostics		
Acyclic through data records	--	✓
Diagnostic interrupt support	✓	
Diagnostics using PROFIBUS/PROFINET	--	✓ See manual ²⁾
Process image		
Process image	✓	3I/3O
Address space required per module	✓	4 bit
Data channels		
Manual mode local interface	--	✓ Through module
Motor Starter ES via local interface	--	✓ Starting end of 2011
Motor Starter ES via bus	--	✓ Starting end of 2011
Data records (acyclic)		
Parameterization	--	✓
Support for PROFlenergy profile	--	✓ Measuring the motor current and disconnection in idle times
Diagnostics	--	✓
Measured values	--	✓
Statistics	--	✓
Commands	--	✓
Slave pointer	--	✓
Logbook	--	✓
Device identification	--	✓
I&M data	--	✓
Inputs		
Number	✓	Maximum 2, via xB3, xB4, xB6
• Of which in the process image	--	✓ 4
Input action	✓	End position on left, right
Quick stop	--	✓ Parameterizable
Outputs		
Number	✓	Internal, for controlling the brake module
Output action	✓	Brake
Brake output with additional module		
Motor brake voltage: brake module	✓	24 V DC: xB1/xB3, 500 V DC: xB2/xB4, 400 V AC: xB5/xB6
Motor protection		
Overload protection	✓	Thermal, range 1:1.3
Overload warning	--	Only tripping
Short-circuit protection	✓	Motor starter protectors
Full motor protection	--	
Motor protection response in case of overload	--	✓ Parameterizable: disconnection without restart, disconnection with restart, warning
Thermal motor model response	--	
Automatic reset	--	
Temperature sensor	--	
Emergency start function	--	(✓ with Control Unit 3RK1 903-0CG00) ✓

✓ Function is available
-- Function is not available

¹⁾ The specified device functions apply in full only to the new ..AB4 starters.

²⁾ <http://support.automation.siemens.com/WW/view/de/6008567>

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Device function		
Repair switch	✓ Rocker switch	✓ Motor starter protectors
Motor starter protector signaling	✓	✓ Parameterizable
Lower current limit monitoring	--	✓ Parameterizable, increment 3.125%, 18.75 ... 100%
Upper current limit monitoring	--	✓ Parameterizable, increment 3.125%, 50 ... 400%)
Residual current detection	--	✓ Parameterizable: warning, disconnection
Stall protection/disconnecting the blocking current	--	✓ Parameterizable
Asymmetry	✓	✓ Parameterizable: warning, disconnection
Load type	--	✓ Parameterizable: 1 and 3-phase
Tripping class	✓ CLASS 10	✓ Parameterizable for DS1e-x, RS1e-x: CLASS 5 (10a), 10, 15, 20 for DSS1e-x: CLASS 5 (10a), 10 (only at 0.3 ... 3 A)
Protection against voltage failure	✓	✓ Parameterizable: Activated/deactivated
Local diagnostics functions using LEDs		
"C-STAT" switching status	✓ Red/green/yellow LEDs	
"SF" group fault	✓ Red LEDs	
"DEVICE" device status	--	✓ Red/green/yellow LEDs
Auxiliary switches for enabling circuit of the ET 200S – safety technology already integrated (for use up to SIL 3 (IEC 61508) or PL e (DIN EN ISO 13849-1) in combination with infeed contactor)	-- Failsafe kit is required	✓ Except DSS1e-x (max. SIL 1 or PL b can be achieved)
✓ Function is available -- Function is not available		

	ET 200S Standard motor starters	ET 200S High Feature motor starters	
	DS1-x, RS1-x	DS1e-x, RS1e-x	DSS1e-x
Device functions (firmware features)			
Soft starter control function			
Soft start function	--		✓
Bypass function	--		
Starting time	--		✓ Locally adjustable, not through bus 0 ... 20 s
Stopping time	--		✓ Locally adjustable, not through bus 0 ... 20 s
Stopping mode	--		✓ Locally adjustable, not through bus
Start voltage	--		✓ Locally adjustable, not through bus 30 ... 100% of U_e
Stopping voltage	--		✓ Locally adjustable, not through bus
Trace	--		
✓ Function is available -- Function is not available			