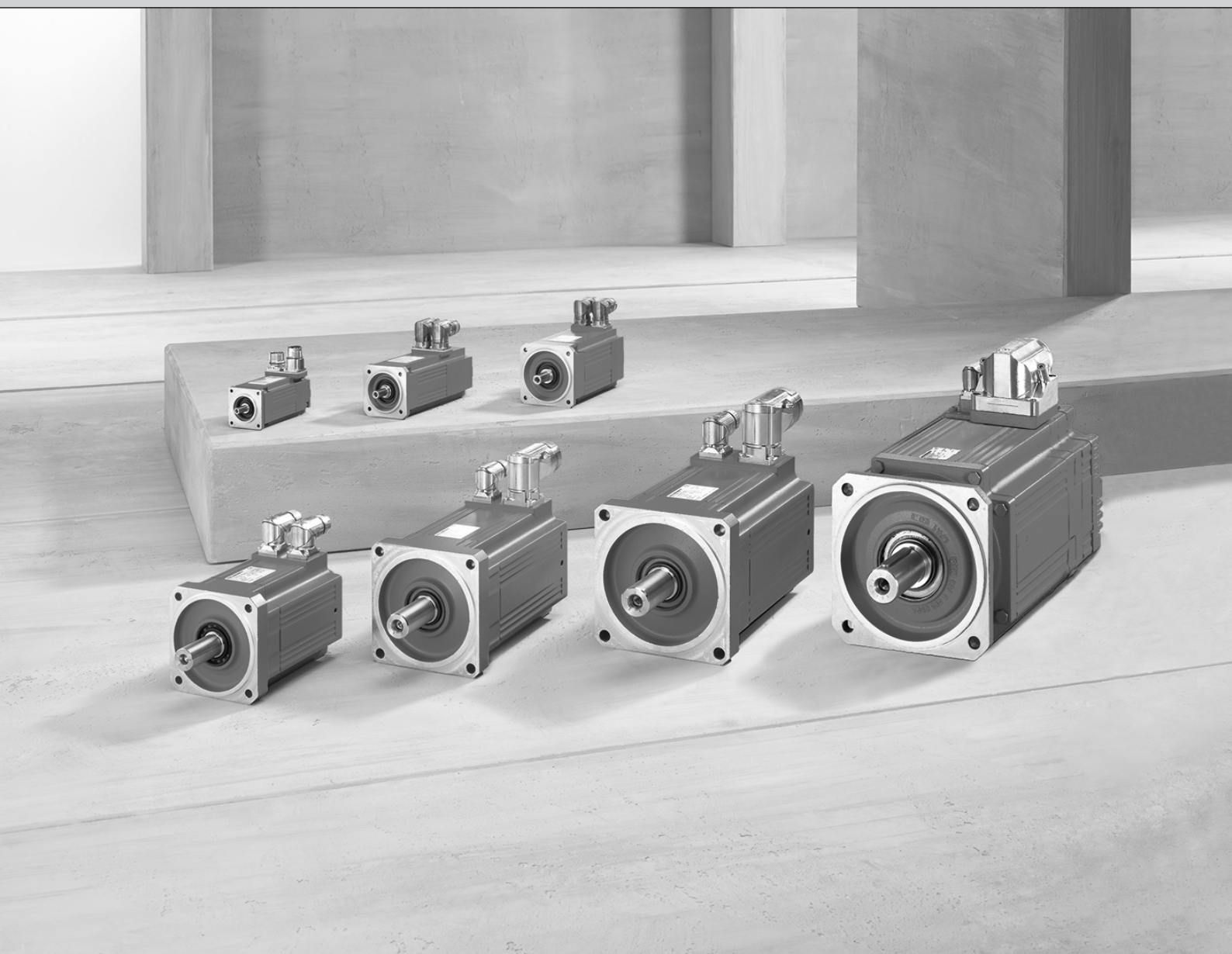




Addendum to the Operating Instructions



CMP40 – CMP112, CMPZ71 – CMPZ100 Synchronous Servomotors
**CMP40 and CMP50 Servomotors for Extra-Low Voltage
48 V**



1 Addendum

1.1 General Information

INFORMATION

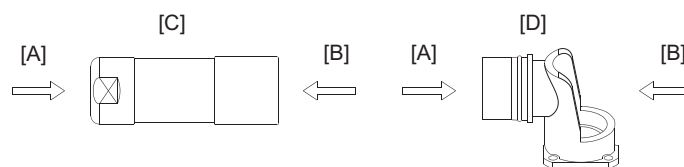


This document describes the CMP40 and CMP50 servomotors with DC 48 V system voltage in inverter operation.

This document applies as a supplement to the "Synchronous servomotors CMP40 – CMP112, CMPZ71 – CMPZ100" operating instructions. The operating instructions are still valid.

1.2 Electrical installation

1.2.1 Key



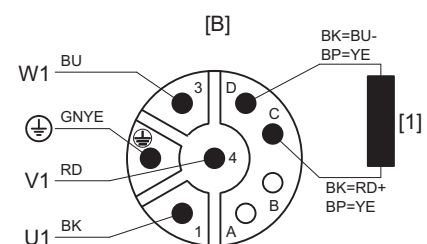
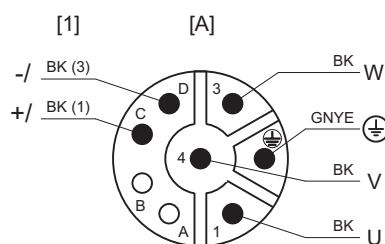
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- [A] View A
- [B] View B
- [C] Customer connector with socket contacts
- [D] Flange socket with pin contacts installed at the factory

1.2.2 Connecting plug connectors – Two-cable technology

Connection SM1/SB1 power plug connector (M23)

Wiring diagram with/without BK brake

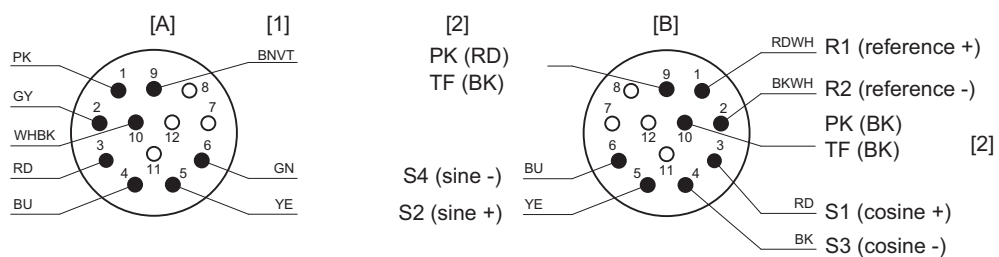


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[1] BK brake (optional)

Wiring diagram for RH1M resolver signal plug connectors

Wiring diagram



27021606555214603

- [1] Shield connected to the metal housing of the connector. Color code according to SEW-EURODRIVE cables
- [2] PK (RD/BK), optional TF (BK)

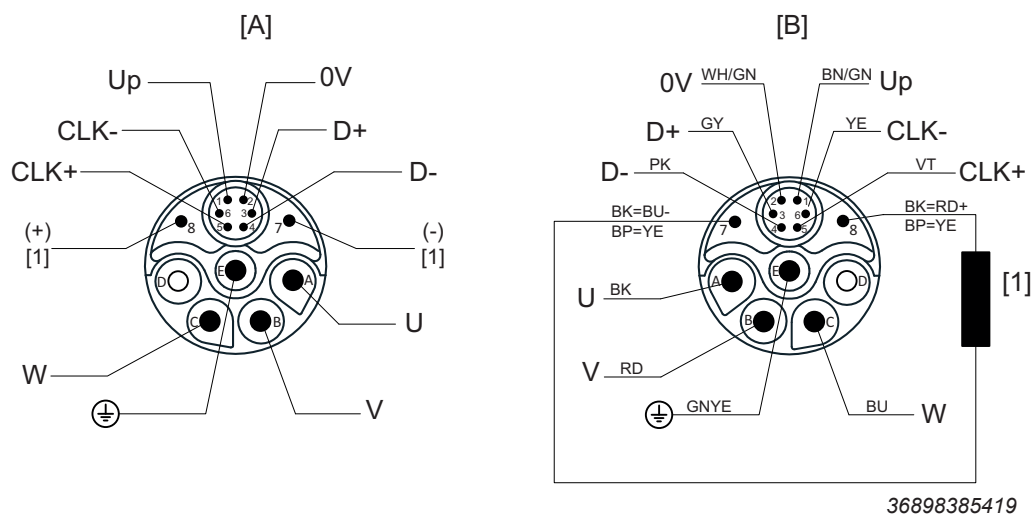
Pin assignment of plug connector lower part [B]

Contact	Color code	Connection
1	RD/WH	R1 (reference +)
2	BK/WH	R2 (reference -)
3	RD	S1 (cosine +)
4	BK	S3 (cosine -)
5	YE	S2 (sine +)
6	BU	S4 (sine -)
7	–	–
8	–	–
9	BK	PK/TF
10	BK	PK/TF
11	–	–
12	–	–

1.2.3 Connecting plug connectors – Single-cable technology

Wiring diagram SE1 without brake / with BK.. brake (M23)

Power with/without BK.. brake AH0E, AH1E encoder



[1] BK.. brake (optional)

1.3 Technical data

1.3.1 Technical data, motor

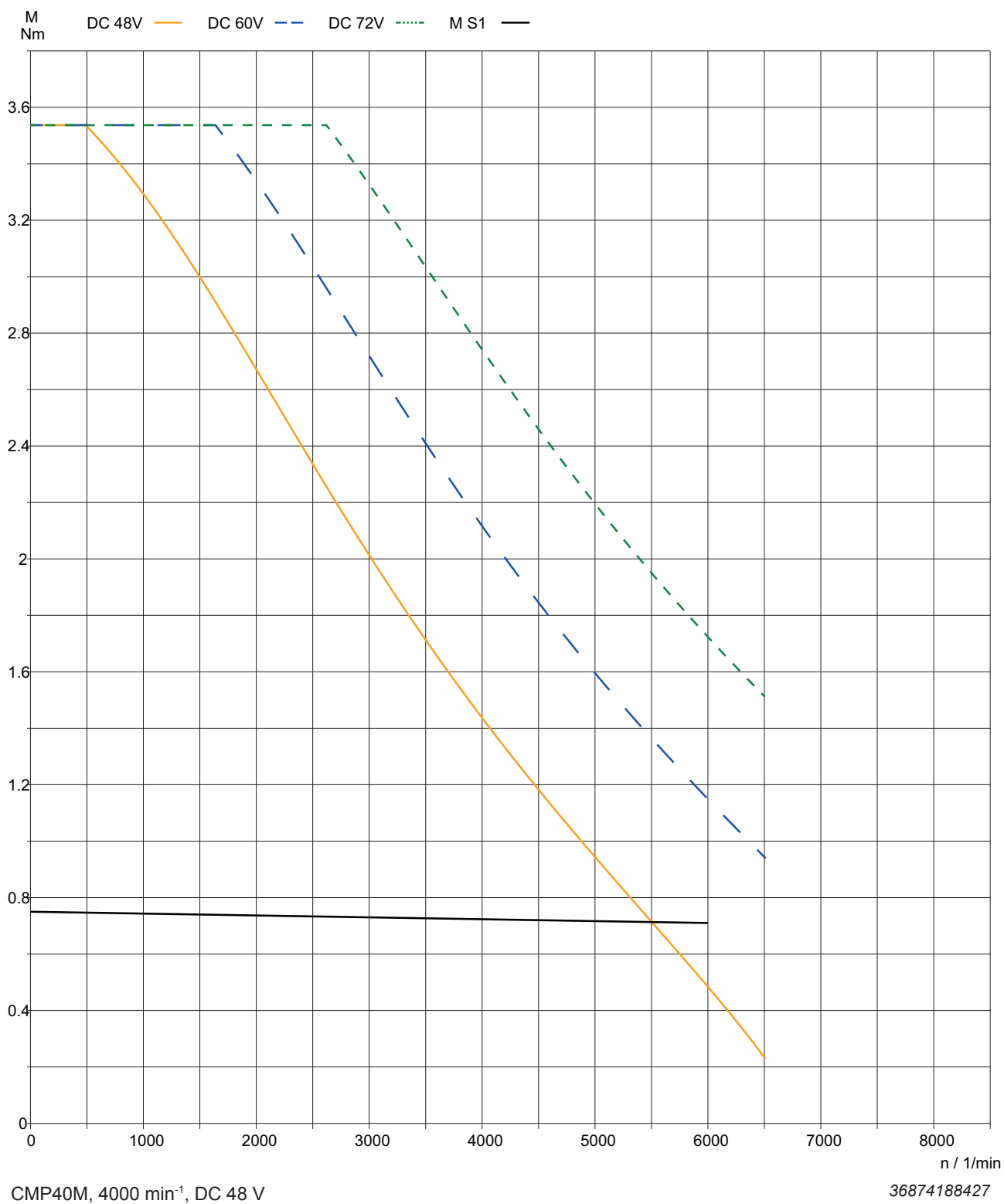
n_N min ⁻¹	Motor	M_0 Nm	I_0 A	M_{pk} Nm	I_{max} A	m_{mot} kg	J_{mot} 10 ⁻⁴ kgm ²	L_1 mH	R_1 Ω	U_{p0} cold V
3000	CMP50M	2.3	17.3	10.3	103	3.3	0.67	0.333	0.0922	8.42
4500	CMP40M	0.75	9.6	3.5	56.5	1.6	0.15	0.393	0.205	5.21
	CMP50S	1.3	15.8	4	56	2.3	0.42	0.264	0.086	5.25

1.3.2 Technical data, brake motor

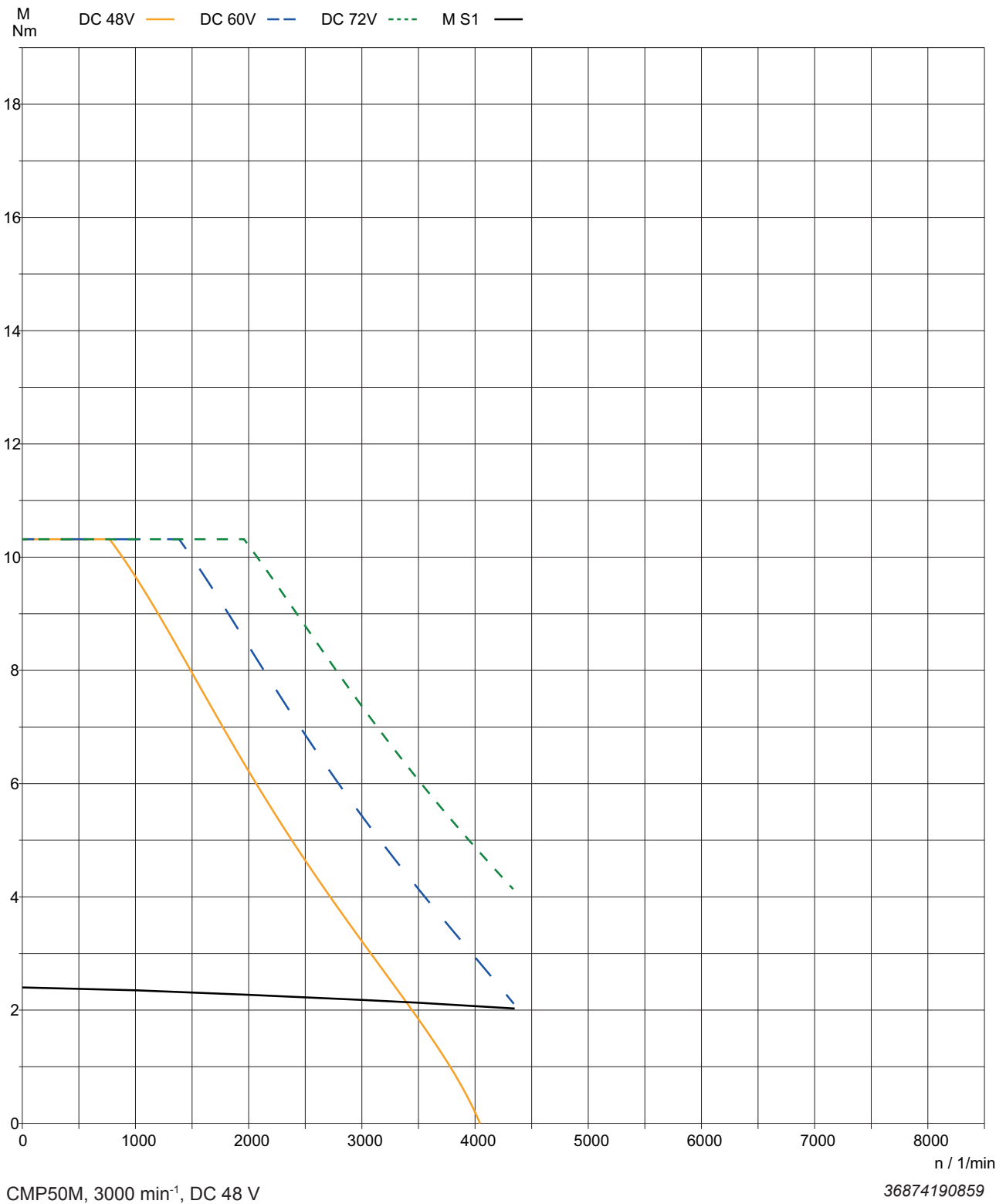
n_n min ⁻¹	Motor	M_0 Nm	I_0 A	M_{pk} Nm	Brake	m_{bmot} kg	J_{bmot} 10 ⁻⁴ kgm ²	$M_{4,100}$ °C Nm	M_1 Nm
3000	CMP50M	2.3	17.3	10.3	BK02	3.7	0.78	2.4	1.9
4500	CMP40M	0.75	9.6	3.5	BK01	1.9	0.24	1.9	1.4
	CMP50S	1.3	15.8	4	BK02	2.7	0.53	2.4	1.9

1.4 Torque-current characteristics

1.4.1 CMP40M

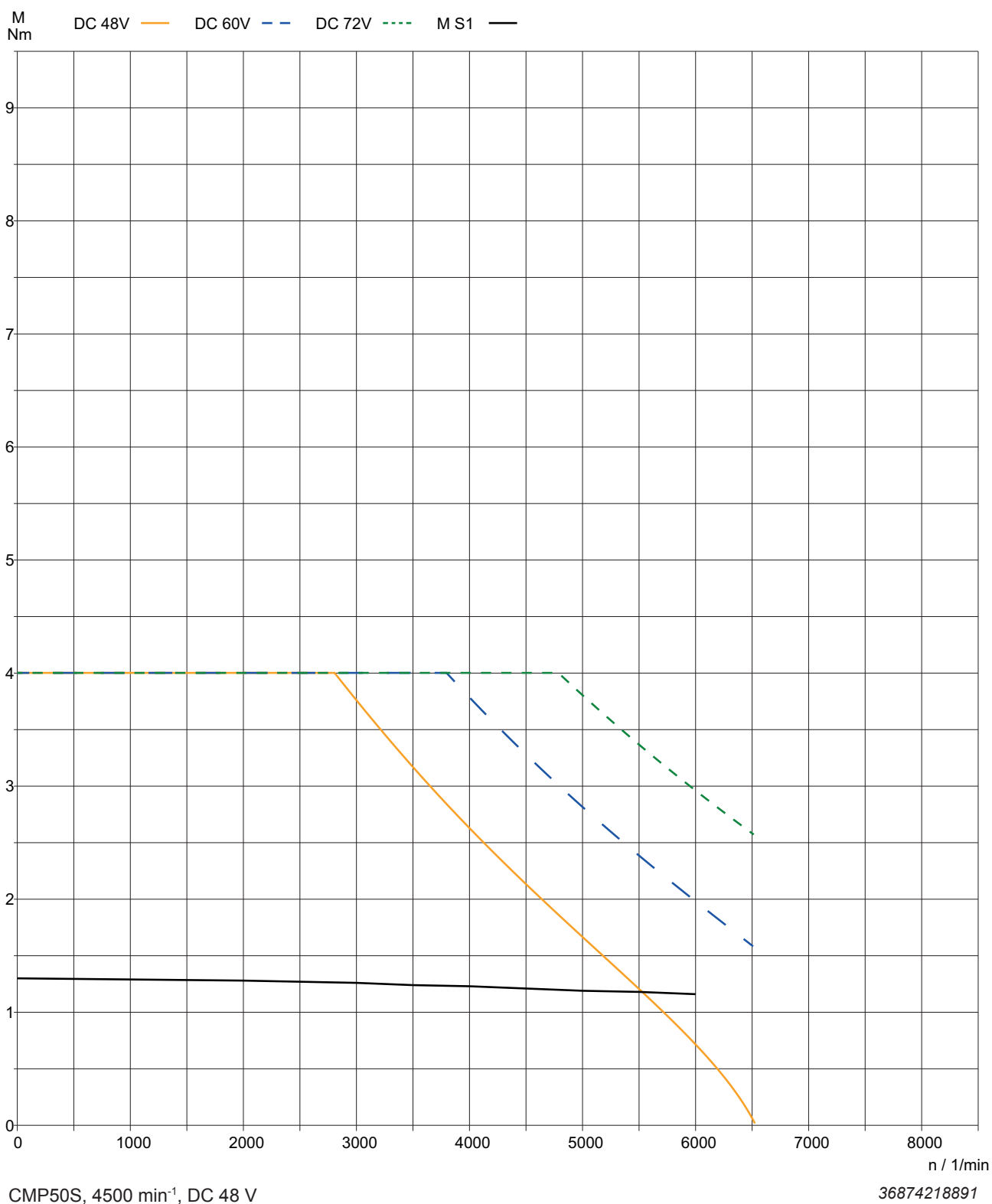


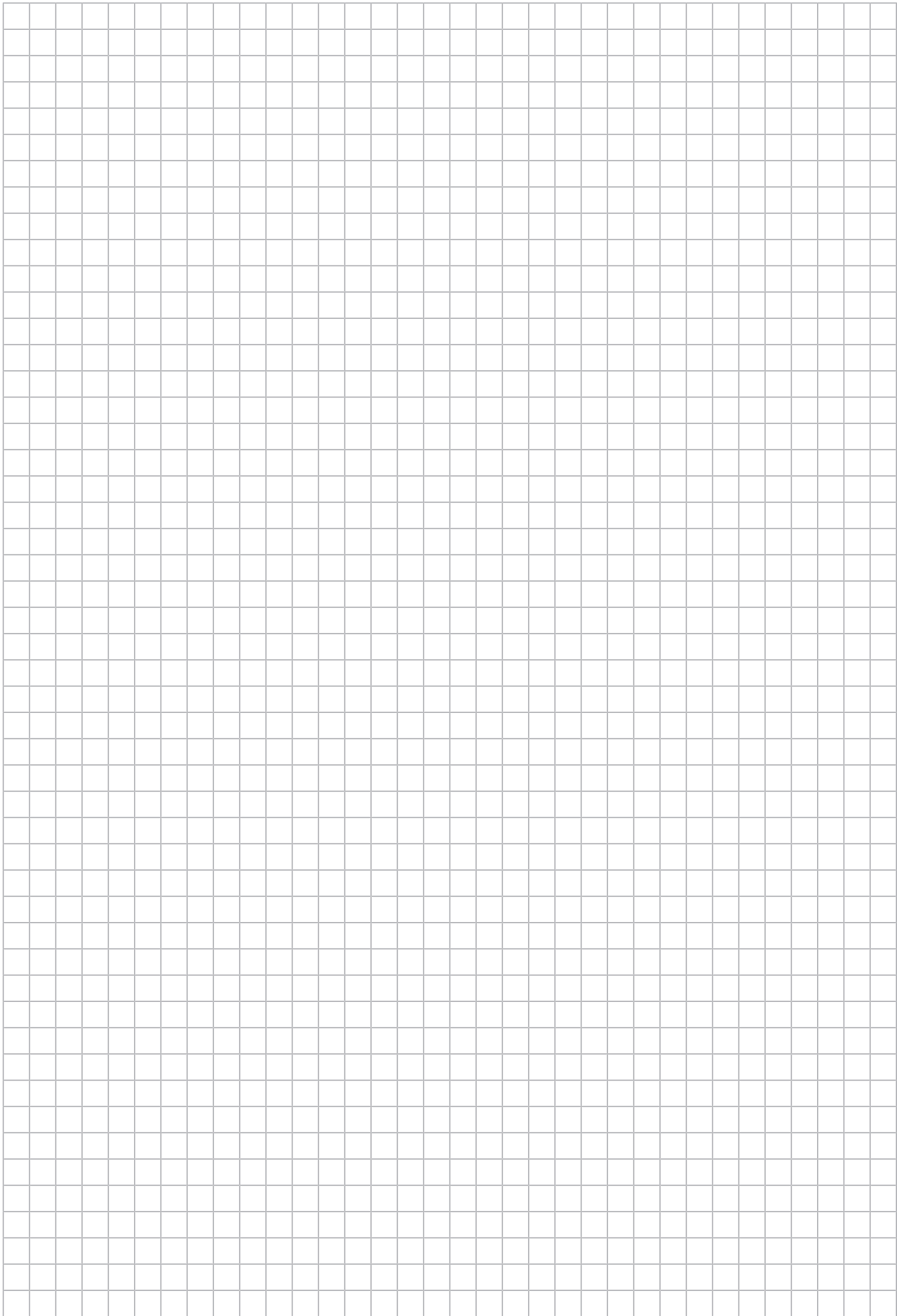
1.4.2 CMP50M

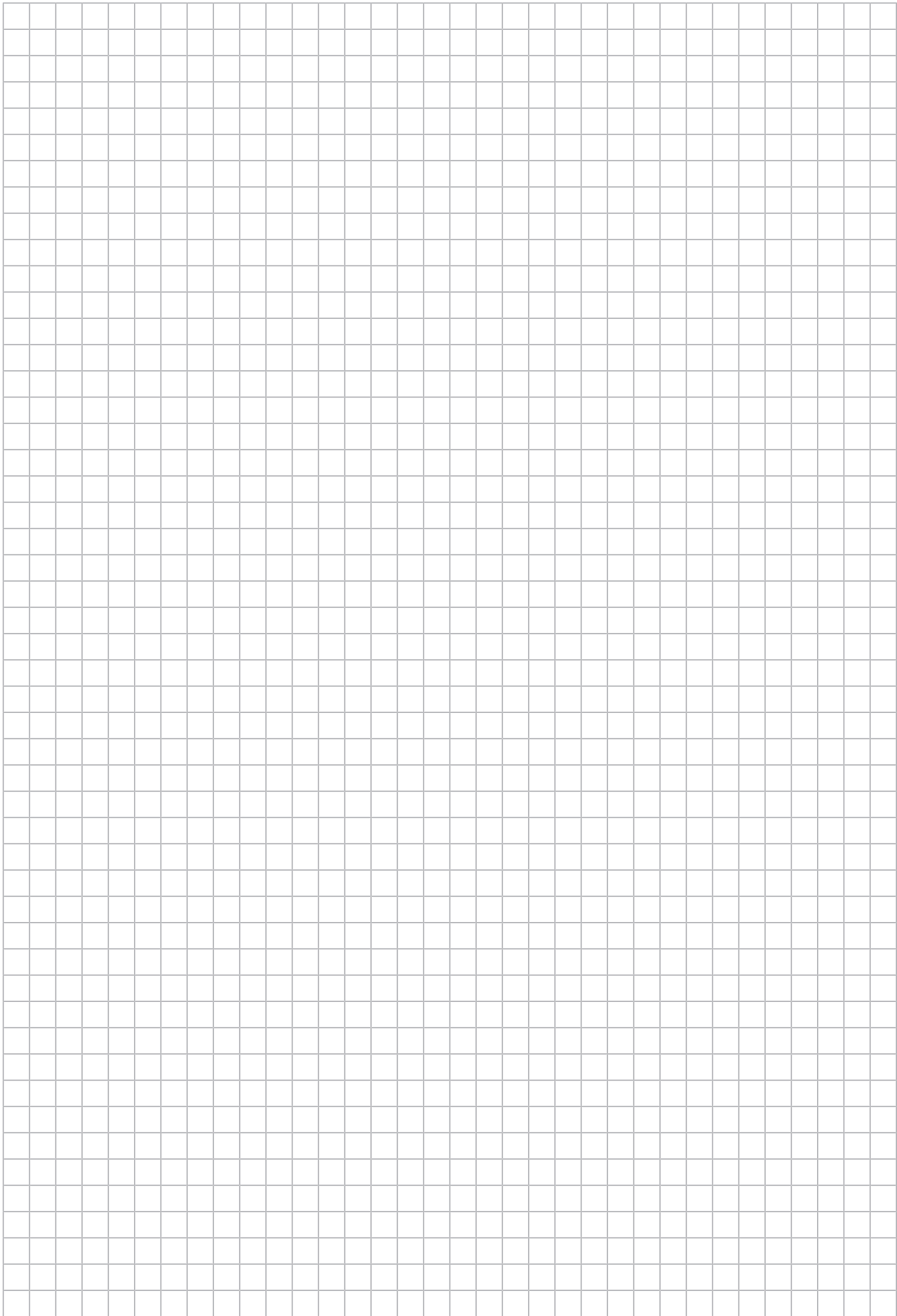


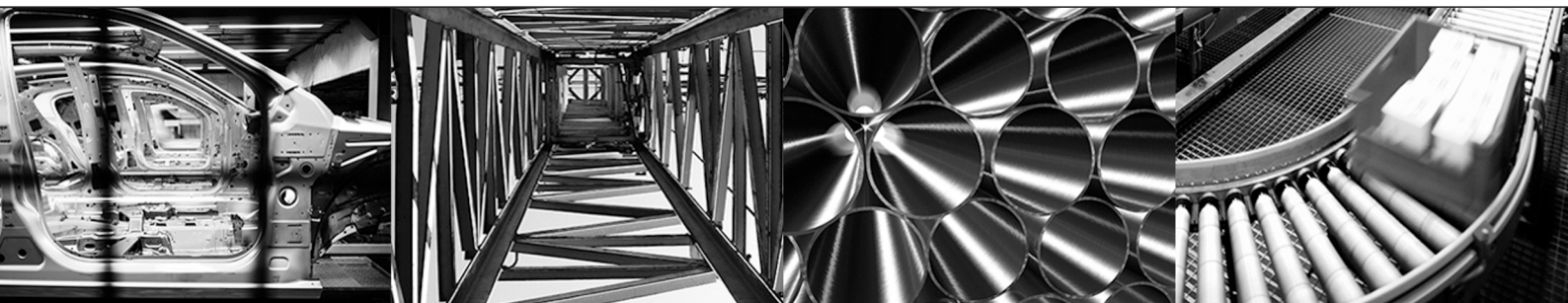
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1.4.3 CMP50S











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