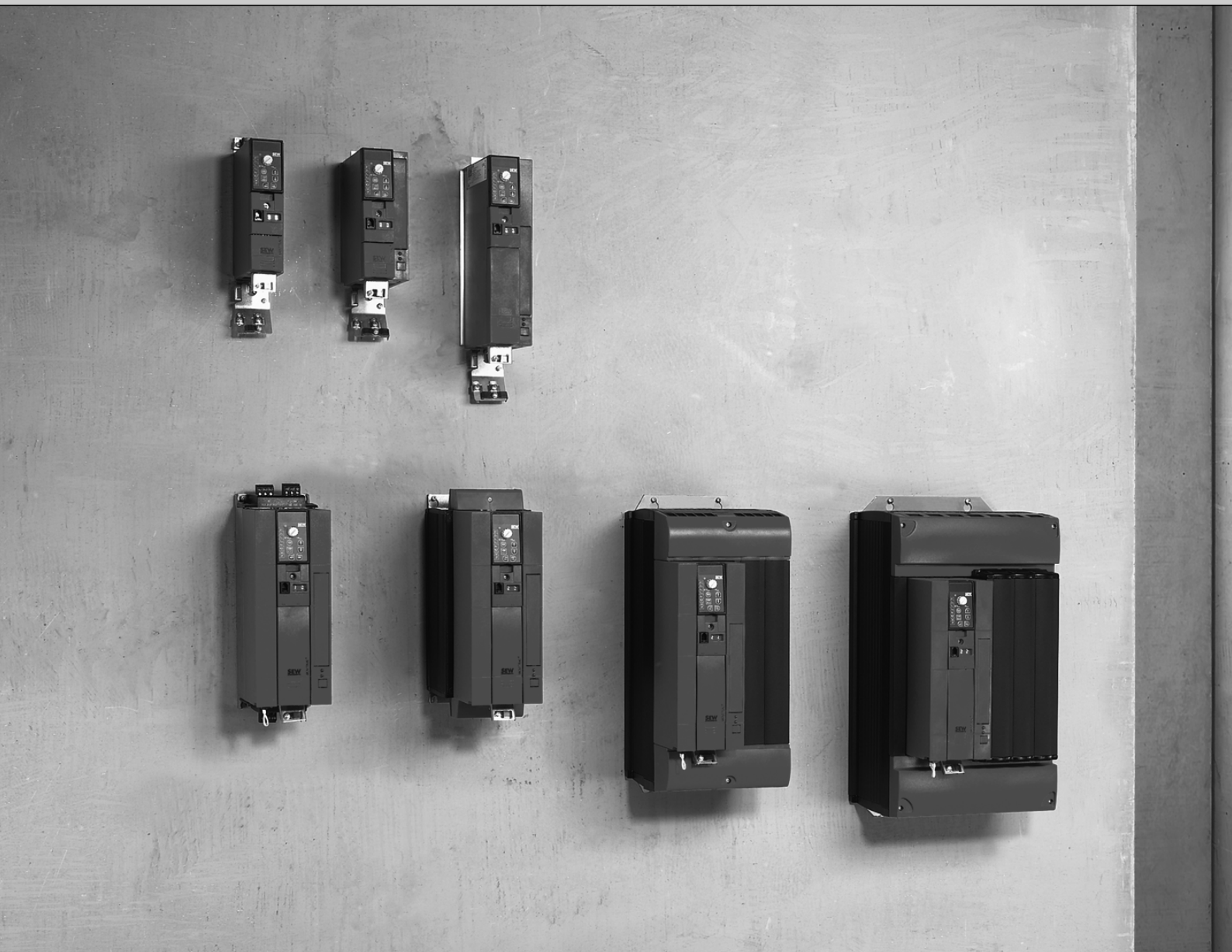




SEW
EURODRIVE

Revision



MOVITRAC® B



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1 Revisions



INFORMATION

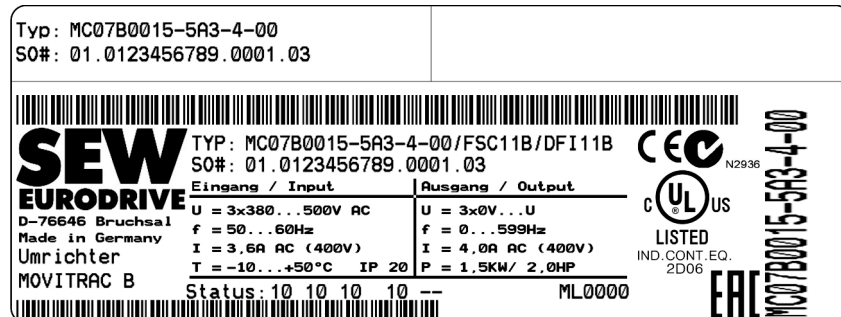
This revision corrects the following information in the "MOVITRAC® B" operating instructions:

- Nameplate, chapter 3.2
 - Technical data, basic unit, chapter 8.1
 - HD output chokes, chapter 8.3.5, page 231
 - EMC module FKE12B / FKE13B, chapter 8.3.7, page 238
-

2 Unit structure

2.1 Nameplate

The following figure shows a nameplate:



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Input	U	Nominal line voltage	T	Ambient temperature
	I	Nominal line current 100% operation	P _{motor}	Recommended motor power 100% operation
	f	Nominal line frequency		
Output	U	Output voltage 100% operation		
	I	Nominal output current 100% operation		
	f	Output frequency		

The unit status is indicated above the lower barcode. It documents the hardware and software states of the unit.

3 Technical data

3.1 Technical data of the basic unit

3.1.1 CE marking, UL approval and C-Tick

UL approval / CSA / GOST-R certificate / C-Tick



UL and cUL approvals (USA) have been granted for the following MOVITRAC® B inverters:

- 230 V / 1-phase
- 230 V / 3-phase
- 400/500 V / 3-phase

cUL is equivalent to CSA approval.



The MOVITRAC® product series meets the requirements of the technical regulations of the customs union of Russia, Kazakhstan, and Belarus.

The EAC mark on the nameplate certifies compliance with the safety requirements of the customs union.



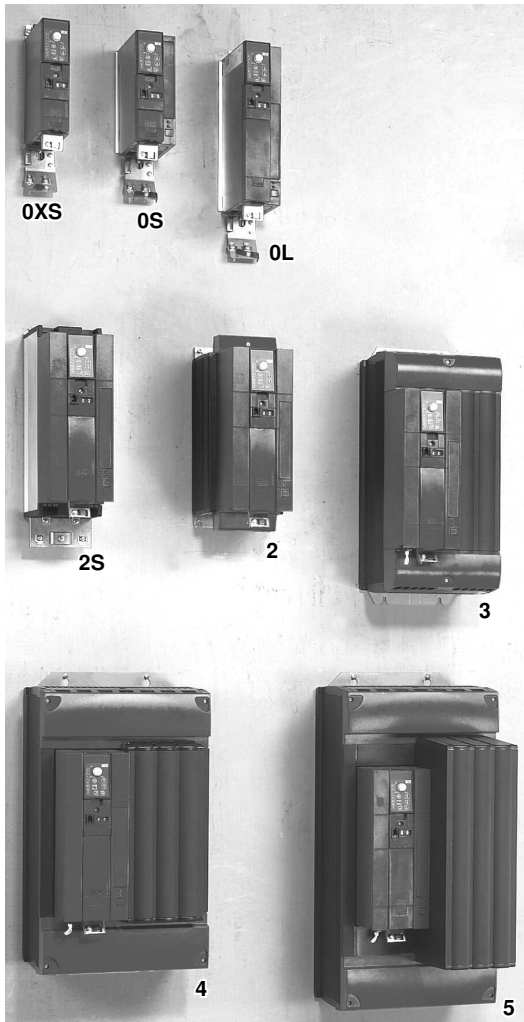
C-Tick certifies conformity with ACMA (Australian Communications and Media Authority) standards.

The units 1 × 230 V and 3 × 400 V have the C-Tick.

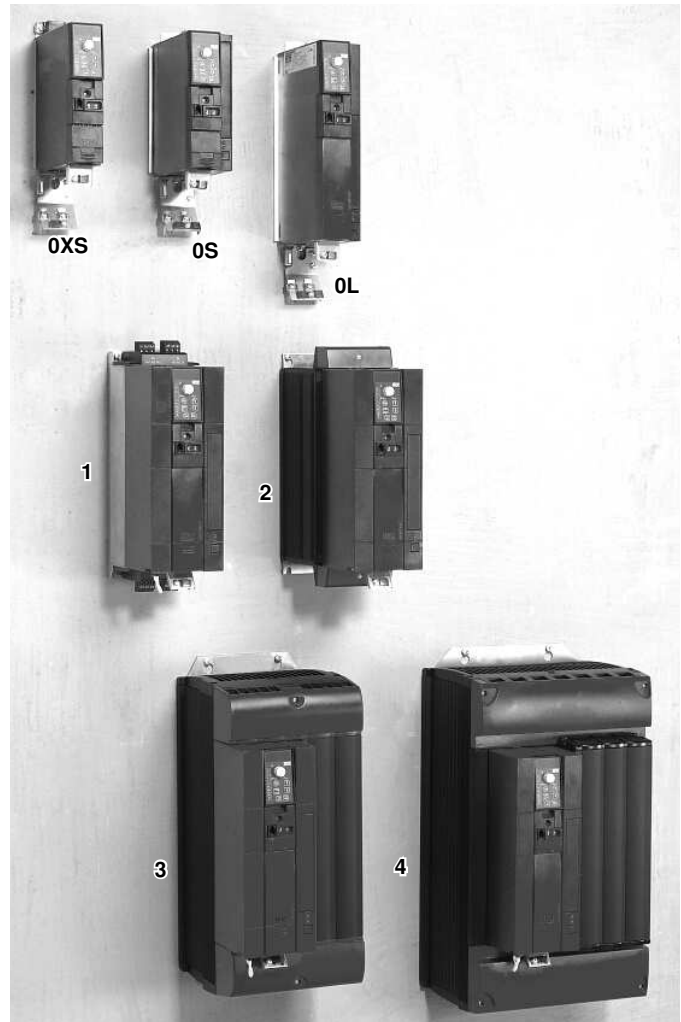
3.1.2 Technical data of MOVITRAC® B, 3 × AC 400 V

Overview of MOVITRAC® B

400 / 500 V



230 V

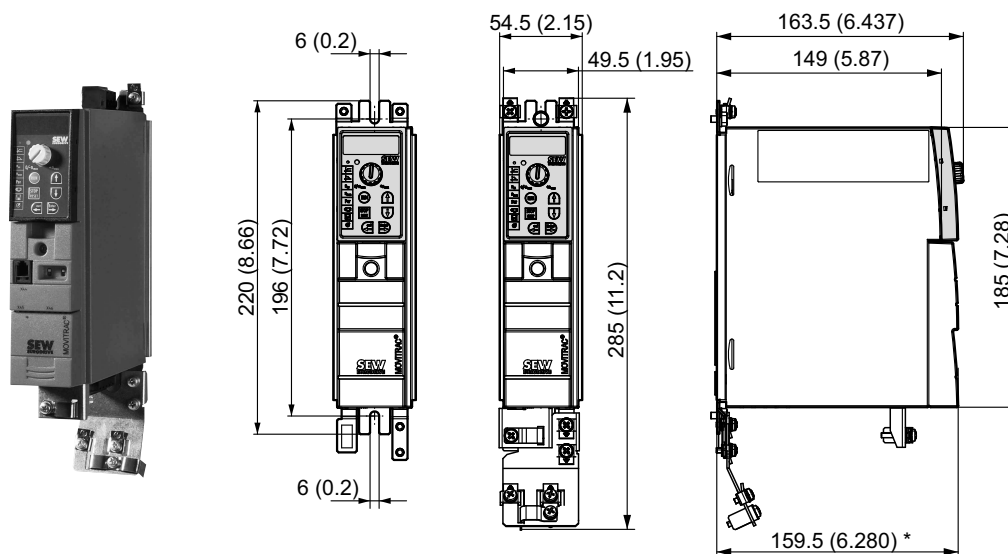


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Supply system connection 400/500 V / 3-phase								
Size	0XS	0S	0L	2S	2	3	4	5
Power kW / HP	0.25 / 0.34 0.37 / 0.50	0.55 / 0.74 0.75 / 1.0 1.1 / 1.5 1.5 / 2.0	2.2 / 3.0 3.0 / 4.0 4.0 / 5.4	5.5 / 7.4 7.5 / 10	11 / 15	15 / 20 22 / 30 30 / 40	37 / 50 45 / 60	55 / 74 75 / 100

AC 400/500 V / 3-phase / size 0XS / 0.25 / 0.37 kW / 0.34 / 0.50 HP

The dimensions are specified in mm (in).



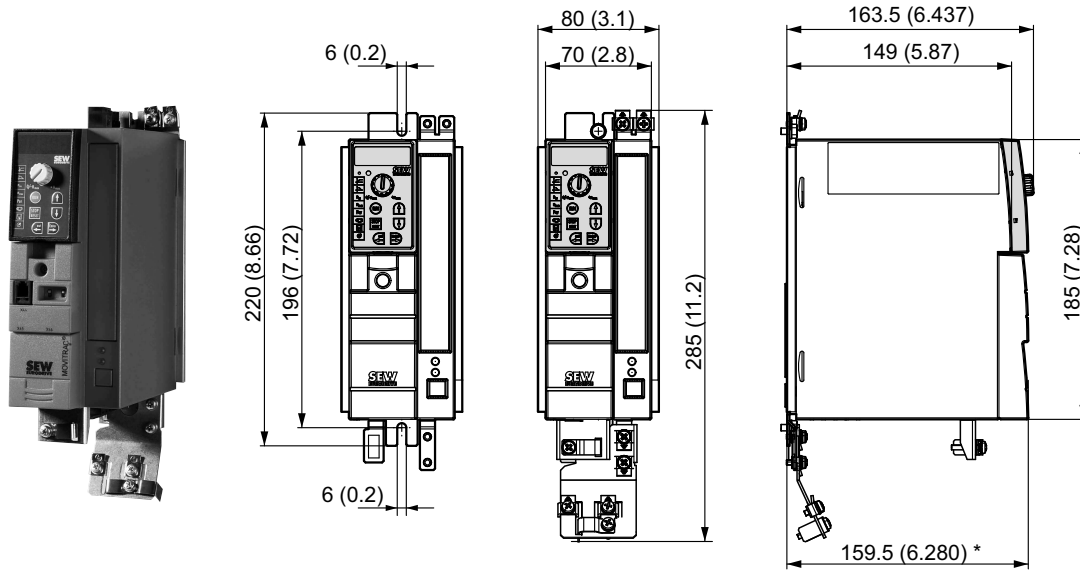
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MOVITRAC® MC07B (3-phase grid)		0003-5A3-4-00		0004-5A3-4-00	
Part number (without "safe stop")		828 515 2		828 516 0	
INPUT ¹⁾					
Nominal line voltage		V _{line}	3 × AC 380 – 500 V		
Nominal line frequency		f _{line}	50/60 Hz ±5%		
Nominal line current (with V _{line} = 3 × AC 400 V)		I _{line} I _{line 125}	AC 0.9 A AC 1.1 A		AC 1.4 A AC 1.8 A
OUTPUT					
Output voltage		V _O	3 × 0 – V _{line}		
Recommended motor power 100% operation		P _{Mot}	0.25 kW / 0.34 HP		0.37 kW / 0.50 HP
Recommended motor power 125% operation		P _{Mot 125}	0.37 kW / 0.50 HP		0.55 kW / 0.74 HP
Nominal output current 100% operation		I _N	AC 1.0 A		AC 1.6 A
Nominal output current 125% operation		I _{N 125}	AC 1.3 A		AC 2.0 A
Apparent output power 100% operation		S _N	0.7 kVA		1.1 kVA
Apparent output power 125% operation		S _{N 125}	0.9 kVA		1.4 kVA
Max. output frequency		f _{max}	599 Hz		
Min. permitted braking resistance (4-quadrant operation)		R _{BW_min}	68 Ω		
GENERAL INFORMATION					
Power loss 100% operation		P _V	30 W		35 W
Power loss 125% operation		P _{V 125}	35 W		40 W
Type of cooling / cooling air consumption			Natural convection / –		
Current limiting			150% I _N for at least 60 seconds		
Unit terminal cross section / tightening torque		Terminals	4 mm ² / AWG12 / 0.6 Nm / 5 lb in		
Dimensions		W × H × D	54.5 mm × 185 mm × 163.5 mm (2.15 in × 7.28 in × 6.437 in)		
Mass		m	1.3 kg / 2.9 lb		

1) The line and output currents must be reduced by 20% from the nominal values for $V_{line} = 3 \times 500\ V$.

AC 400/500 V / 3-phase / size 0S / 0.55 / 0.75 / 1.1 / 1.5 kW / 0.74 / 1.0 / 1.5 / 2.0 HP

The dimensions are specified in mm (in).



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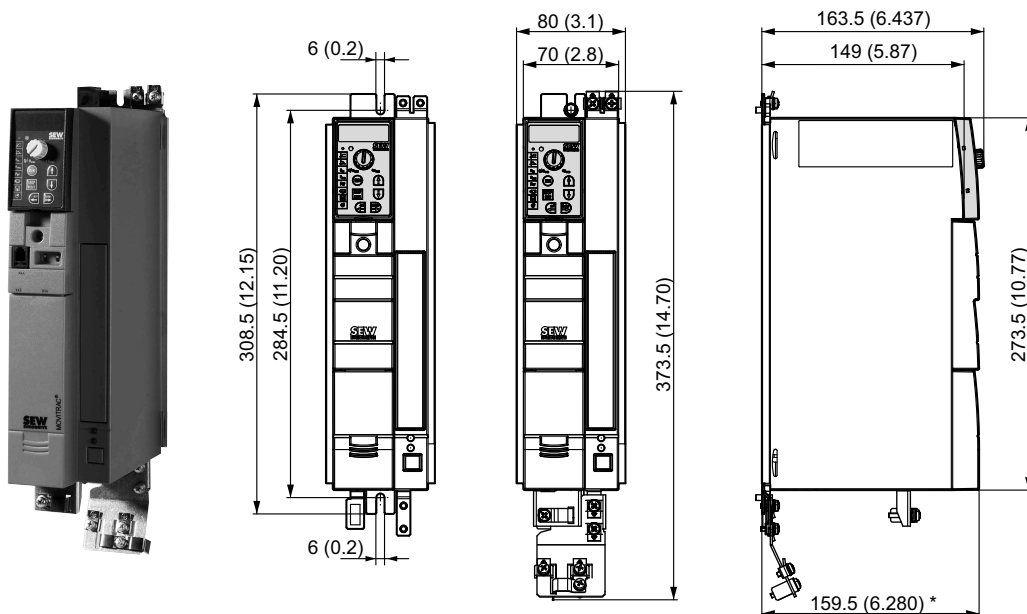
MOVITRAC® MC07B (3-phase grid)		0005-5A3-4-x0	0008-5A3-4-x0	0011-5A3-4-x0	0015-5A3-4-x0
Part number, standard unit (-00)		828 517 9	828 518 7	828 519 5	828 520 9
Part number "Safe stop" (-S0 ¹⁾)		828 995 6	828 996 4	828 997 2	828 998 0
INPUT ²⁾					
Nominal line voltage	V _{line}	3 × AC 380 – 500 V			
Nominal line frequency	f _{line}	50/60 Hz ±5%			
Nominal line current (with V _{line} = 3 × AC 400 V)	I _{line} I _{line 125}	AC 1.8 A AC 2.3 A	AC 2.2 A AC 2.6 A	AC 2.8 A AC 3.5 A	AC 3.6 A AC 4.5 A
OUTPUT					
Output voltage	V _O	3 × 0 – V _{line}			
Recommended motor power 100% operation	P _{Mot}	0.55 kW / 0.74 HP	0.75 kW / 1.0 HP	1.1 kW / 1.5 HP	1.5 kW / 2.0 HP
Recommended motor power 125% operation	P _{Mot 125}	0.75 kW / 1.0 HP	1.1 kW / 1.5 HP	1.5 kW / 2.0 HP	2.2 kW / 3.0 HP
Nominal output current 100% operation	I _N	AC 2.0 A	AC 2.4 A	AC 3.1 A	AC 4.0 A
Nominal output current 125% operation	I _{N 125}	AC 2.5 A	AC 3.0 A	AC 3.9 A	AC 5.0 A
Apparent output power 100% operation	S _N	1.4 kVA	1.7 kVA	2.1 kVA	2.8 kVA
Apparent output power 125% operation	S _{N 125}	1.7 kVA	2.1 kVA	2.7 kVA	3.5 kVA
Max. output frequency	f _{max}	599 Hz			
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	68 Ω			
GENERAL INFORMATION					
Power loss 100% operation	P _V	40 W	45 W	50 W	60 W
Power loss 125% operation	P _{V 125}	45 W	50 W	60 W	75 W
Type of cooling / cooling air consumption		Natural convection			Forced cooling / 12 m³/h
Current limiting		150% I _N for at least 60 seconds			
Unit terminal cross section / tightening torque	Terminals	4 mm² / AWG12 / 0.6 Nm / 5 lb in			
Dimensions	W × H × D	80 mm × 185 mm × 163.5 mm (3.1 in × 7.28 in × 6.437 in)			
Mass	m	1.5 kg / 3.3 lb			

1) The device type MC07B...-S0 must always be supplied by an external DC 24 V power supply unit.

2) The line and output currents must be reduced by 20% from the nominal values for $V_{line} = 3 \times 500\ V$.

AC 400/500 V / 3-phase / size 0L / 2.2 / 3.0 / 4.0 kW / 3.0 / 4.0 / 5.4 HP

The dimensions are specified in mm (in).



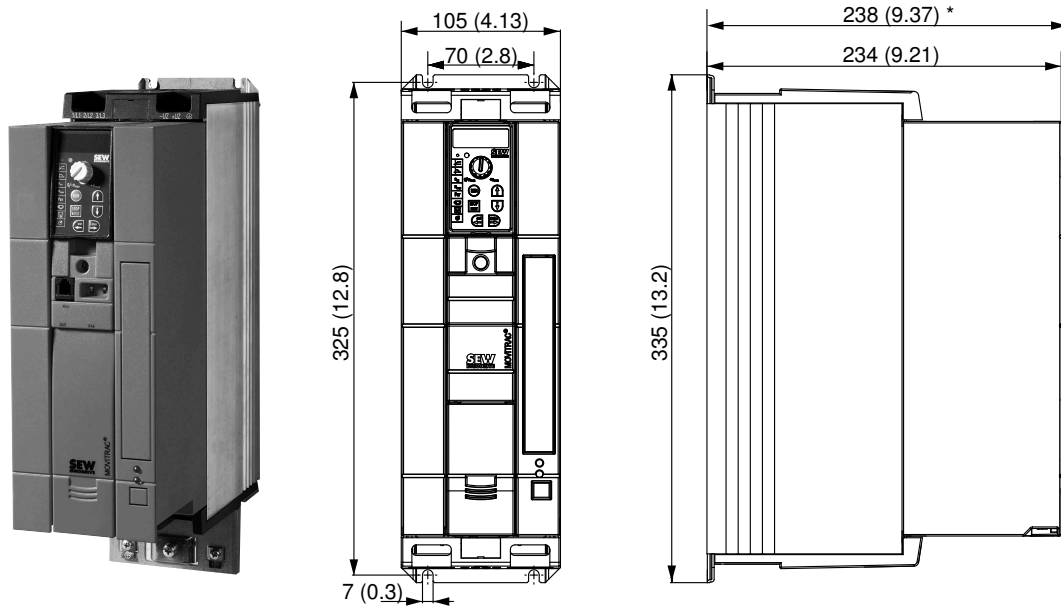
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MOVITRAC® MC07B (3-phase grid)		0022-5A3-4-x0	0030-5A3-4-x0	0040-5A3-4-x0
Part number, standard unit (-00)		828 521 7	828 522 5	828 523 3
Part number "Safe stop" (-S0 ¹⁾)		828 999 9	829 000 8	829 001 6
INPUT ²⁾				
Nominal line voltage	V _{line}	3 × AC 380 – 500 V		
Nominal line frequency	f _{line}	50/60 Hz ±5%		
Nominal line current (with V _{line} = 3 × AC 400 V)	I _{line} I _{line 125}	AC 5.0 A AC 6.2 A	AC 6.3 A AC 7.9 A	AC 8.6 A AC 10.7 A
OUTPUT				
Output voltage	V _O	3 × 0 – V _{line}		
Recommended motor power 100% operation	P _{Mot}	2.2 kW / 3.0 HP	3.0 kW / 4.0 HP	4.0 kW / 5.4 HP
Recommended motor power 125% operation	P _{Mot 125}	3.0 kW / 4.0 HP	4.0 kW / 5.4 HP	5.5 kW / 7.4 HP
Nominal output current 100% operation	I _N	AC 5.5 A	AC 7.0 A	AC 9.5 A
Nominal output current 125% operation	I _{N 125}	AC 6.9 A	AC 8.8 A	AC 11.9 A
Apparent output power 100% operation	S _N	3.8 kVA	4.8 kVA	6.6 kVA
Apparent output power 125% operation	S _{N 125}	4.8 kVA	6.1 kVA	8.2 kVA
Max. output frequency	f _{max}	599 Hz		
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	68 Ω		
GENERAL INFORMATION				
Power loss 100% operation	P _V	80 W	95 W	125 W
Power loss 125% operation	P _{V 125}	95 W	120 W	180 W
Type of cooling / cooling air consumption		Natural convection		Forced cooling / 18 m³/h
Current limiting		150% I _N for at least 60 seconds		
Unit terminal cross section / tightening torque	Terminals	4 mm² / AWG12 / 0.6 Nm / 5 lb in		
Dimensions	W × H × D	80 mm × 273.5 mm × 163.5 mm (3.1 in × 10.77 in × 6.437 in)		
Mass	m			

1) The device type MC07B...-S0 must always be supplied by an external DC 24 V power supply unit.

2) The line and output currents must be reduced by 20% from the nominal values for $V_{line} = 3 \times 500 V$.

AC 400/500 V / 3-phase / size 2S / 5.5 / 7.5 kW / 7.4 / 10 HP

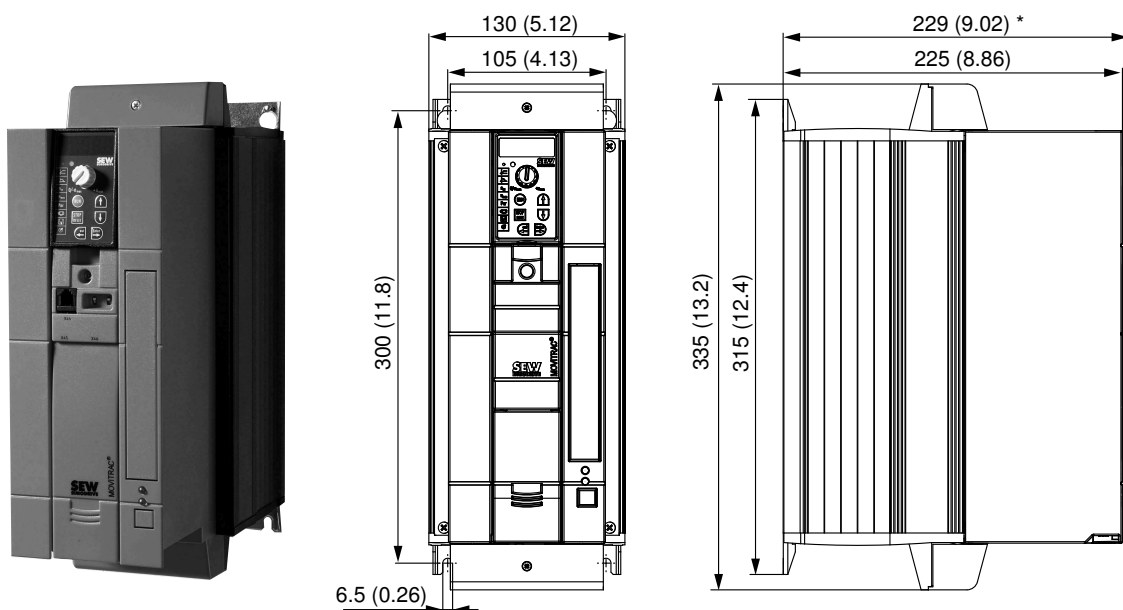


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MOVITRAC® MC07B (3-phase mains)		0055-5A3-4-00	0075-5A3-4-00
Part number ("Safe stop" integrated)		828 524 1	828 526 8
INPUT ¹⁾			
Nominal line voltage	V _{line}	3 × AC 380 – 500 V	
Nominal line frequency	f _{line}	50/60 Hz ±5%	
Nominal line current (with V _{line} = 3 × AC 400 V)	I _{line} I _{line 125}	AC 11.3 A AC 14.1 A	AC 14.4 A AC 18.0 A
OUTPUT			
Output voltage	V _O	3 × 0 – V _{line}	
Recommended motor power 100% operation	P _{Mot}	5.5 kW / 7.4 HP	7.5 kW / 10 HP
Recommended motor power 125% operation	P _{Mot 125}	7.5 kW / 10 HP	11 kW / 15 HP
Nominal output current 100% operation	I _N	AC 12.5 A	AC 16 A
Nominal output current 125% operation	I _{N 125}	AC 15.6 A	AC 20 A
Apparent output power 100% operation	S _N	8.7 kVA	11.1 kVA
Apparent output power 125% operation	S _{N 125}	10.8 kVA	13.9 kVA
Max. output frequency	f _{max}	599 Hz	
Min. perm. braking resistance (4-quadrant operation)	R _{BW_min}	47 Ω	
GENERAL INFORMATION			
Power loss 100% operation	P _V	220 W	290 W
Power loss 125% operation	P _{V 125}	290 W	370 W
Current limiting		150% I _N for at least 60 seconds	
Type of cooling / cooling air consumption		Forced cooling / 80 m³/h	
Unit terminal cross section / tightening torque	Terminals	4 mm² / AWG12 / 0.6 Nm / 5 lb in	
Dimensions	W × H × D	105 mm × 335 mm × 238 mm (4.13 in × 13.2 in × 9.37 in)	
Mass	m		

1) The line and output currents must be reduced by 20% from the nominal values for $V_{line} = 3 \times AC 500 V$.

AC 400/500 V / 3-phase / size 2 / 11 kW / 15 HP

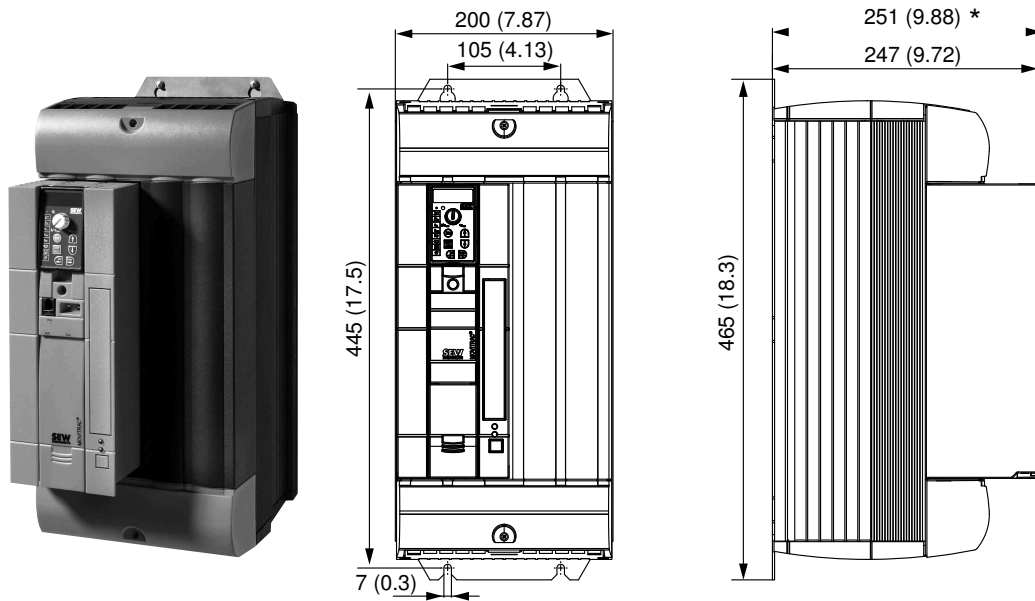


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MOVITRAC® MC07B (3-phase grid)		0110-5A3-4-00
Part number ("Safe stop" integrated)		828 527 6
INPUT¹⁾		
Nominal line voltage	V_{line}	3 × AC 380 – 500 V
Nominal line frequency	f_{line}	50/60 Hz ±5%
Nominal line current (with $V_{line} = 3 \times AC\ 400\ V$)	I_{line} $I_{line\ 125}$	AC 21.6 A AC 27.0 A
OUTPUT		
Output voltage	V_O	3 × 0 – V_{line}
Recommended motor power 100% operation	P_{Mot}	11 kW / 15 HP
Recommended motor power 125% operation	$P_{Mot\ 125}$	15 kW / 20 HP
Nominal output current 100% operation	I_N	AC 24 A
Nominal output current 125% operation	$I_{N\ 125}$	AC 30 A
Apparent output power 100% operation	S_N	16.6 kVA
Apparent output power 125% operation	$S_{N\ 125}$	20.8 kVA
Max. output frequency	f_{max}	599 Hz
Min. permitted braking resistance (4-quadrant operation)	R_{BW_min}	22 Ω
GENERAL INFORMATION		
Power loss 100% operation	P_V	400 W
Power loss 125% operation	$P_{V\ 125}$	500 W
Type of cooling / cooling air consumption		Forced cooling / 80 m³/h
Current limiting		150% I_N for at least 60 seconds
Unit terminal cross section / tightening torque	Terminals	4 mm² / AWG12 / 0.6 Nm / 5 lb in 6 mm² / AWG10 / 1.5 Nm / 13 lb in
Dimensions	W × H × D	130 mm × 335 mm × 229 mm (5.12 in × 13.2 in × 9.02 in)
Mass	m	

1) The line and output currents must be reduced by 20% from the nominal values for $V_{line} = 3 \times 500\ V$.

AC 400/500 V / 3-phase / size 3 / 15 / 22 / 30 kW / 20 / 30 / 40 HP

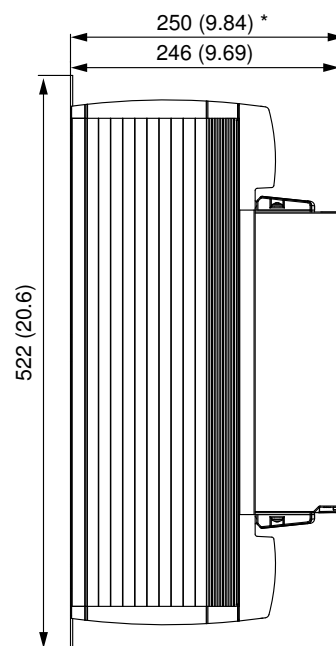
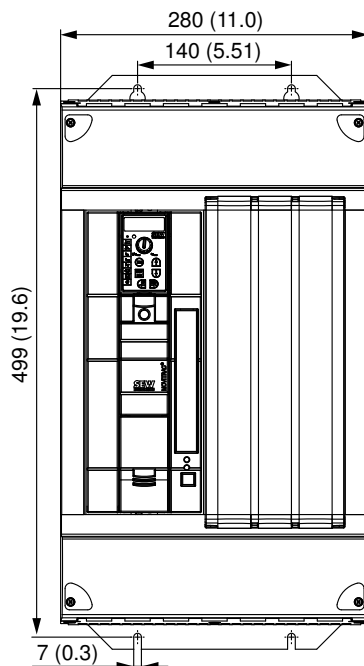


9007199346320523

MOVITRAC® MC07B (3-phase grid)		0150-503-4-00	0220-503-4-00	0300-503-4-00
Part number ("Safe stop" integrated)		828 528 4	828 529 2	828 530 6
INPUT ¹⁾				
Nominal line voltage	V _{line}	3 × AC 380 – 500 V		
Nominal line frequency	f _{line}	50/60 Hz ±5%		
Nominal line current (with V _{line} = 3 × AC 400 V)	I _{line} I _{line 125}	AC 28.8 A AC 36.0 A	AC 41.4 A AC 51.7 A	AC 54.0 A AC 67.5 A
OUTPUT				
Output voltage	V _O	3 × 0 – V _{line}		
Recommended motor power 100% operation	P _{Mot}	15 kW / 20 HP	22 kW / 30 HP	30 kW / 40 HP
Recommended motor power 125% operation	P _{Mot 125}	22 kW / 30 HP	30 kW / 40 HP	37 kW / 50 HP
Nominal output current 100% operation	I _N	AC 32 A	AC 46 A	AC 60 A
Nominal output current 125% operation	I _{N 125}	AC 40 A	AC 57.5 A	AC 75 A
Apparent output power 100% operation	S _N	22.2 kVA	31.9 kVA	41.6 kVA
Apparent output power 125% operation	S _{N 125}	27.7 kVA	39.8 kVA	52.0 kVA
Max. output frequency	f _{max}	599 Hz		
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	15 Ω	12 Ω	
GENERAL INFORMATION				
Power loss 100% operation	P _V	550 W	750 W	950 W
Power loss 125% operation	P _{V 125}	690 W	940 W	1250 W
Type of cooling / cooling air consumption		Forced cooling / 180 m³/h		
Current limiting		150% I _N for at least 60 seconds		
Unit terminal cross section / tightening torque	Terminals	25 mm² / AWG4	25 mm² / AWG4	25 mm² / AWG4
		3.5 Nm / 31 lb in		
Dimensions	W × H × D	200 mm × 465 mm × 251 mm (7.87 in × 18.3 in × 9.88 in)		
Mass	m			

1) The line and output currents must be reduced by 20% from the nominal values for $V_{line} = 3 \times 500\ V$.

AC 400/500 V / 3-phase / size 4 / 37 / 45 kW / 50 / 60 HP

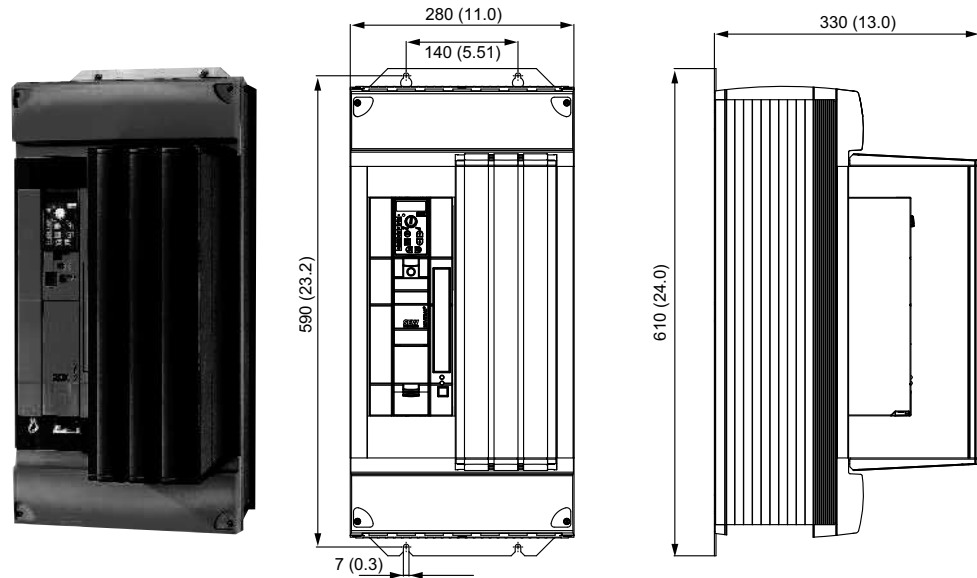


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MOVITRAC® MC07B (3-phase grid)		0370-503-4-00	0450-503-4-00
Part number ("Safe stop" integrated)		828 531 4	828 532 2
INPUT ¹⁾			
Nominal line voltage	V _{line}	3 × AC 380 – 500 V	
Nominal line frequency	f _{line}	50/60 Hz ±5%	
Nominal line current (with V _{line} = 3 × AC 400 V)	I _{line} I _{line 125}	AC 65.7 A AC 81.9 A	AC 80.1 A AC 100.1 A
OUTPUT			
Output voltage	V _O	3 × 0 – V _{line}	
Recommended motor power 100% operation	P _{Mot}	37 kW / 50 HP	45 kW / 60 HP
Recommended motor power 125% operation	P _{Mot 125}	45 kW / 60 HP	55 kW / 74 HP
Nominal output current 100% operation	I _N	AC 73 A	AC 89 A
Nominal output current 125% operation	I _{N 125}	AC 91.3 A	AC 111.3 A
Apparent output power 100% operation	S _N	50.6 kVA	61.7 kVA
Apparent output power 125% operation	S _{N 125}	63.2 kVA	77.1 kVA
Max. output frequency	f _{max}	599 Hz	
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	6 Ω	
GENERAL INFORMATION			
Power loss 100% operation	P _V	1200 W	1400 W
Power loss 125% operation	P _{V 125}	1450 W	1820 W
Type of cooling / cooling air consumption		Forced cooling / 180 m³/h	
Current limiting		150% I _N for at least 60 seconds	
Unit terminal cross section / tightening torque	Terminals	70 mm² / AWG00	
		14 Nm / 120 lb in	
Dimensions	W × H × D	280 mm × 522 mm × 250 mm (11.0 in × 20.6 in × 9.84 in)	
Mass	m		

1) The line and output currents must be reduced by 20% from the nominal values for $V_{line} = 3 \times 500\ V$.

AC 400/500 V / 3-phase / size 5 / 55 / 75 kW / 74 / 100 HP



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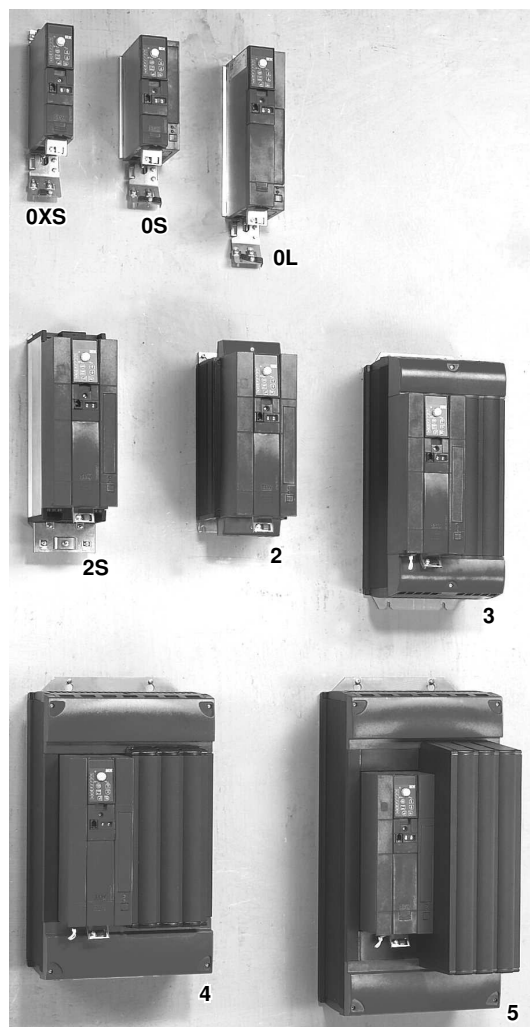
MOVITRAC® MC07B (3-phase grid)		0550-503-4-00	0750-503-4-00
Part number ("Safe stop" integrated)		829 527 1	829 529 8
INPUT ¹⁾			
Nominal line voltage	V_{line}	3 × AC 380 – 500 V	
Nominal line frequency	f_{line}	50/60 Hz ±5%	
Nominal line current (with $V_{line} = 3 \times AC\ 400\ V$)	I_{line} $I_{line\ 125}$	AC 94.5 A AC 118.1 A	AC 117 A AC 146.3 A
OUTPUT			
Output voltage	V_O	3 × 0 – V_{line}	
Recommended motor power 100% operation	P_{Mot}	55 kW / 74 HP	75 kW / 100 HP
Recommended motor power 125% operation	$P_{Mot\ 125}$	75 kW / 100 HP	90 kW / 120 HP
Nominal output current 100% operation	I_N	AC 105 A	AC 130 A
Nominal output current 125% operation	$I_{N\ 125}$	AC 131 A	AC 162 A
Apparent output power 100% operation	S_N	73.5 kVA	91.0 kVA
Apparent output power 125% operation	$S_{N\ 125}$	90.8 kVA	112.2 kVA
Max. output frequency	f_{max}	599 Hz	
Min. permitted braking resistance (4-quadrant operation)	R_{BW_min}	6 Ω	4 Ω
GENERAL INFORMATION			
Power loss 100% operation	P_V	1700 W	2000 W
Power loss 125% operation	$P_{V\ 125}$	2020 W	2300 W
Type of cooling / cooling air consumption		Forced cooling / 360 m³/h	
Current limiting		150% I_N for at least 60 seconds	
Unit terminal cross section / tightening torque	Terminals	70 mm² / AWG00	
		14 Nm / 120 lb in	
Dimensions	W × H × D	280 mm × 610 mm × 330 mm (11.0 in × 24.0 in × 13.0 in)	
Mass	m		

1) The line and output currents must be reduced by 20% from the nominal values for $V_{line} = 3 \times 500\ V$.

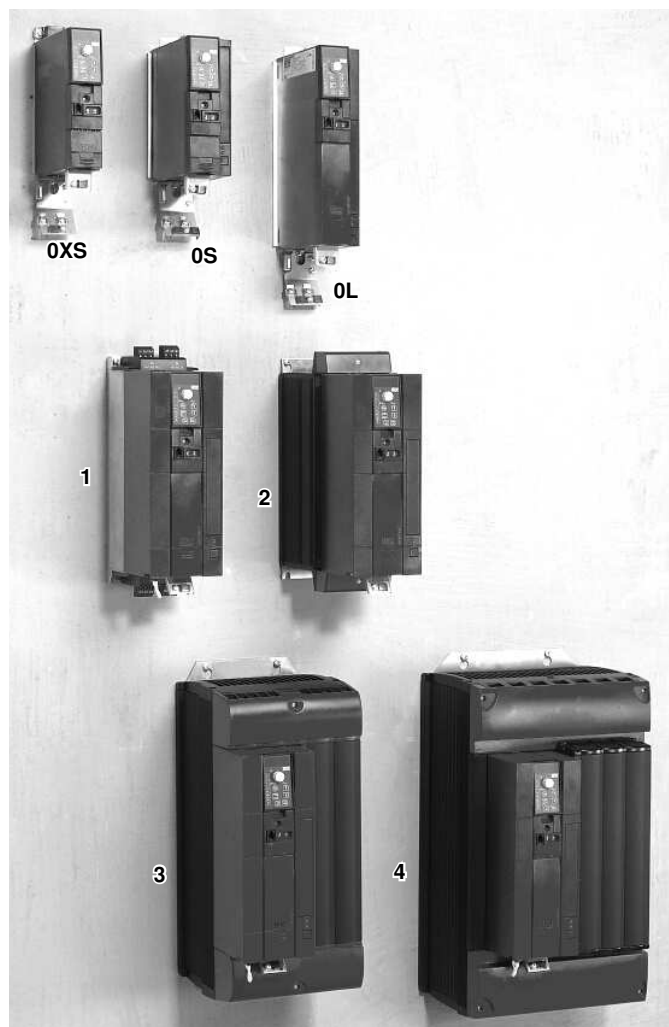
3.1.3 Technical data of MOVITRAC® B, 3 × AC 230 V

Overview of MOVITRAC® B

400 / 500 V



230 V

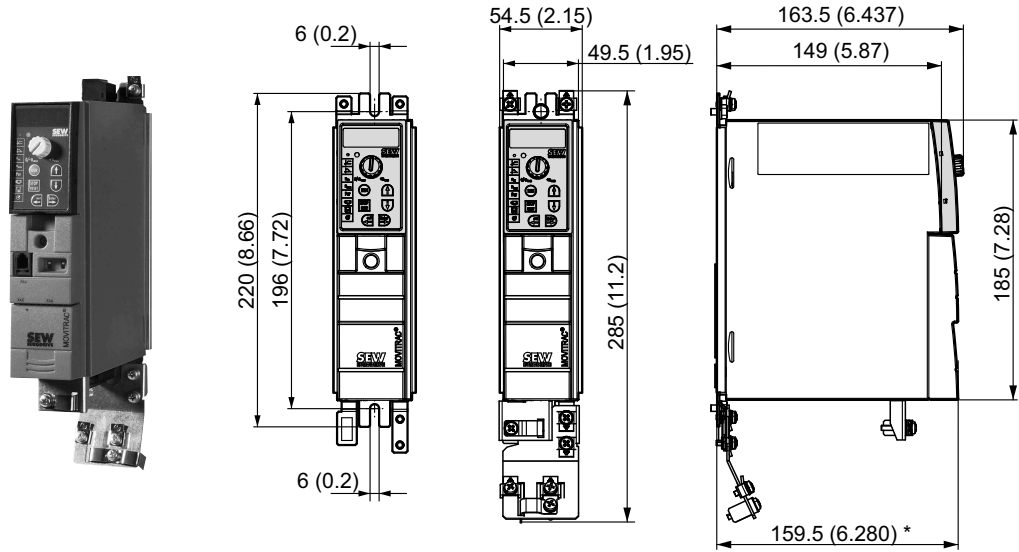


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Power supply connection 230 V / 3-phase

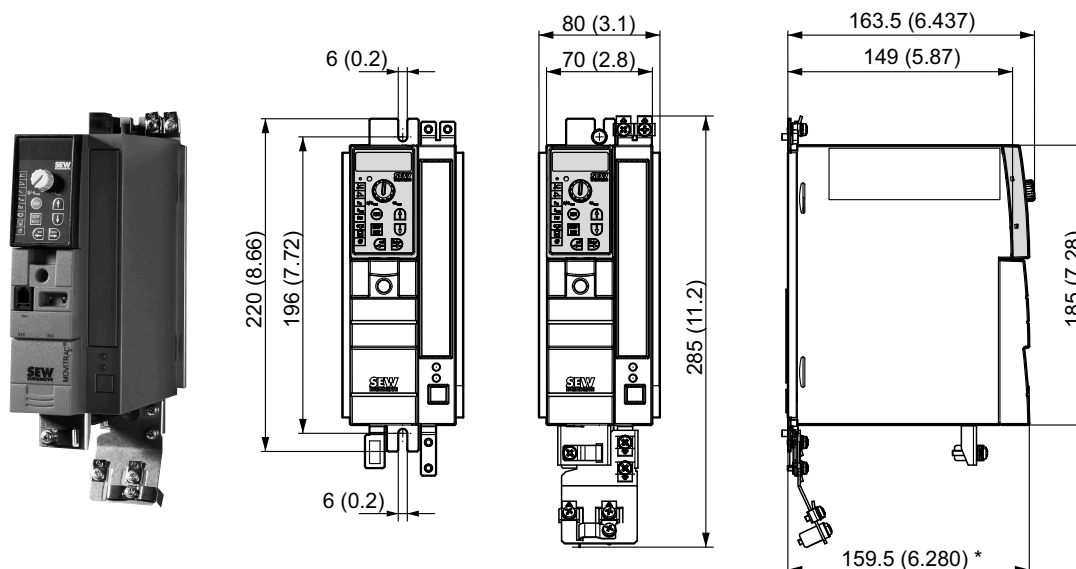
Size	0XS	0S	0L	1	2	3	4
Power kW / HP	0.25 / 0.34 0.37 / 0.50	0.55 / 0.74 0.75 / 1.0	1.1 / 1.5 1.5 / 2.0 2.2 / 3.0	3.7 / 5.0	5.5 / 7.4 7.5 / 10	11 / 15 15 / 20	22 / 30 30 / 40

AC 230 V / 3-phase / size 0XS / 0.25 / 0.37 kW / 0.34 / 0.50 HP



9007199489517579

MOVITRAC® MC07B (3-phase grid)		0003-2A3-4-00	0004-2A3-4-00
Part number (without "safe stop")		828 499 7	828 500 4
INPUT			
Nominal line voltage	V _{line}	3 × AC 200 – 240 V	
Nominal line frequency	f _{line}	50/60 Hz ±5%	
Nominal line current (with V _{line} = 3 × AC 230 V)	I _{line} I _{line 125}	AC 1.6 A AC 1.9 A	AC 2.0 A AC 2.4 A
OUTPUT			
Output voltage	V _O	3 × 0 – V _{line}	
Recommended motor power 100% operation Recommended motor power 125% operation	P _{Mot} P _{Mot 125}	0.25 kW / 0.34 HP 0.37 kW / 0.50 HP	0.37 kW / 0.50 HP 0.55 kW / 0.74 HP
Nominal output current 100% operation Nominal output current 125% operation	I _N I _{N 125}	AC 1.7 A AC 2.1 A	AC 2.5 A AC 3.1 A
Apparent output power 100% operation Apparent output power 125% operation	S _N S _{N 125}	0.7 kVA 0.9 kVA	1.0 kVA 1.3 kVA
Max. output frequency	f _{max}	599 Hz	
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	27 Ω	
GENERAL INFORMATION			
Power loss 100% operation Power loss 125% operation	P _V P _{V 125}	35 W 40 W	40 W 50 W
Type of cooling / cooling air consumption		Natural convection / –	
Current limiting		150% I _N for at least 60 seconds	
Unit terminal cross section / tightening torque	Terminals	4 mm ² / AWG12 / 0.6 Nm / 5 lb in	
Dimensions	W × H × D	54.5 mm × 185 mm × 163.5 mm (2.15 in × 7.28 in × 6.437 in)	
Mass	m	1.3 kg / 2.9 lb	

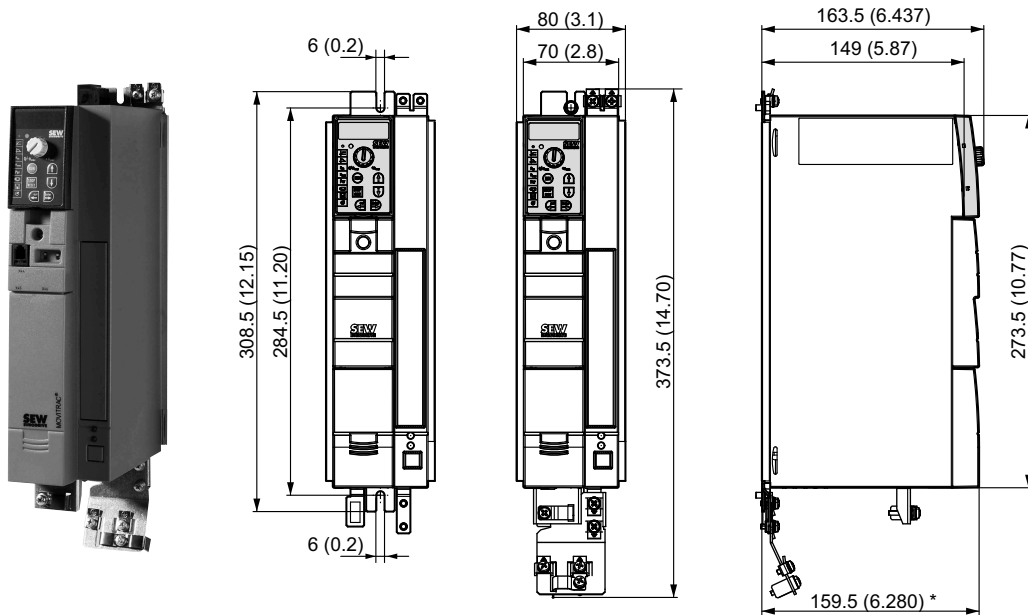
AC 230 V / 3-phase / size 0S / 0.55 / 0.75 kW / 0.74 / 1.0 HP

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MOVITRAC® MC07B (3-phase grid)		0005-2A3-4-x0	0008-2A3-4-x0
Part number, standard unit (-00)		828 501 2	828 502 0
Part number "Safe stop" (-S0 ¹⁾)		829 987 0	829 988 9
INPUT			
Nominal line voltage	V _{line}	3 × AC 200 – 240 V	
Nominal line frequency	f _{line}	50/60 Hz ±5%	
Nominal line current (with V _{line} = 3 × AC 230 V)	I _{line} I _{line 125}	AC 2.8 A AC 3.4 A	AC 3.3 A AC 4.1 A
OUTPUT			
Output voltage	V _O	3 × 0 – V _{line}	
Recommended motor power 100% operation	P _{Mot}	0.55 kW / 0.74 HP	0.75 kW / 1.0 HP
Recommended motor power 125% operation	P _{Mot 125}	0.75 kW / 1.0 HP	1.1 kW / 1.5 HP
Nominal output current 100% operation	I _N	AC 3.3 A	AC 4.2 A
Nominal output current 125% operation	I _{N 125}	AC 4.1 A	AC 5.3 A
Apparent output power 100% operation	S _N	1.4 kVA	1.7 kVA
Apparent output power 125% operation	S _{N 125}	1.7 kVA	2.1 kVA
Max. output frequency	f _{max}	599 Hz	
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	27 Ω	
GENERAL INFORMATION			
Power loss 100% operation	P _V	50 W	60 W
Power loss 125% operation	P _{V 125}	60 W	75 W
Type of cooling / cooling air consumption		Natural convection / –	
Current limiting		150% I _N for at least 60 seconds	
Unit terminal cross section / tightening torque	Terminals	4 mm ² / AWG12 / 0.6 Nm / 5 lb in	
Dimensions	W × H × D	80 mm × 185 mm × 163.5 mm (3.1 in × 7.28 in × 6.437 in)	
Mass	m	1.5 kg / 3.3 lb	

1) The device type MC07B...-S0 must always be supplied by an external DC 24 V power supply unit.

AC 230 V / 3-phase / size 0L / 1.1 / 1.5 / 2.2 kW / 1.5 / 2.0 / 3.0 HP

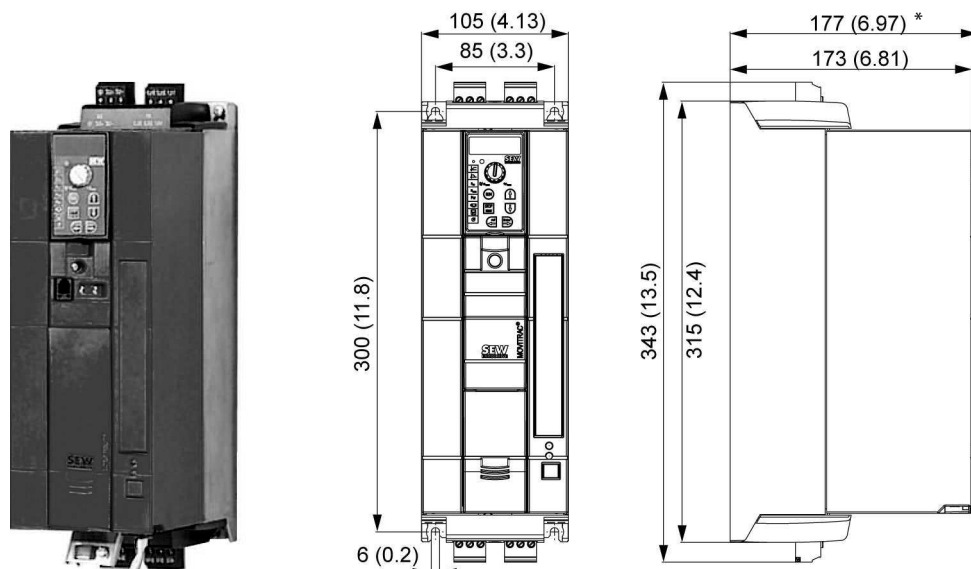


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MOVITRAC® MC07B (3-phase grid)		0011-2A3-4-00	0015-2A3-4-00	0022-2A3-4-00
Part number standard design (-00)		828 503 9	828 504 7	828 505 5
Part number "Safe technology " (-S0 ¹⁾)		829 989 7	829 990 0	829 991 9
INPUT				
Nominal line voltage	V _{line}	3 × AC 200 – 240 V		
Nominal line frequency	f _{line}	50/60 Hz ±5%		
Nominal line current (with V _{line} = 3 × AC 230 V)	I _{line} I _{line 125}	AC 5.1 A AC 6.3 A	AC 6.4 A AC 7.9 A	AC 7.6 A AC 9.5 A
OUTPUT				
Output voltage	V _O	3 × 0 – V _{line}		
Recommended motor power 100% operation	P _{Mot}	1.1 kW / 1.5 HP	1.5 kW / 2.0 HP	2.2 kW / 3.0 HP
Recommended motor power 125% operation	P _{Mot 125}	1.5 kW / 2.0 HP	2.2 kW / 3.0 HP	3.0 kW / 4.0 HP
Nominal output current 100% operation	I _N	AC 5.7 A	AC 7.3 A	AC 8.6 A
Nominal output current 125% operation	I _{N 125}	AC 7.1 A	AC 9.1 A	AC 10.8 A
Apparent output power 100% operation	S _N	2.3 kVA	3.0 kVA	3.5 kVA
Apparent output power 125% operation	S _{N 125}	2.9 kVA	3.7 kVA	4.3 kVA
Max. output frequency	f _{max}	599 Hz		
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	27 Ω		
GENERAL INFORMATION				
Power loss 100% operation	P _V	75 W	90 W	105 W
Power loss 125% operation	P _{V 125}	90 W	110 W	140 W
Type of cooling / cooling air consumption		Natural convection		Forced cooling / 18 m³/h
Current limiting		150% I _N for at least 60 seconds		
Unit terminal cross section / tightening torque	Terminals	4 mm² / AWG12 / 0.6 Nm / 5 lb in		
Dimensions	W × H × D	80 mm × 273.5 mm × 163.5 mm (3.1 in × 10.77 in × 6.437 in)		
Mass	m	2.2 kg / 4.9 lb		

1) The device type MC07B...-S0 must always be supplied by an external DC 24 V power supply unit.

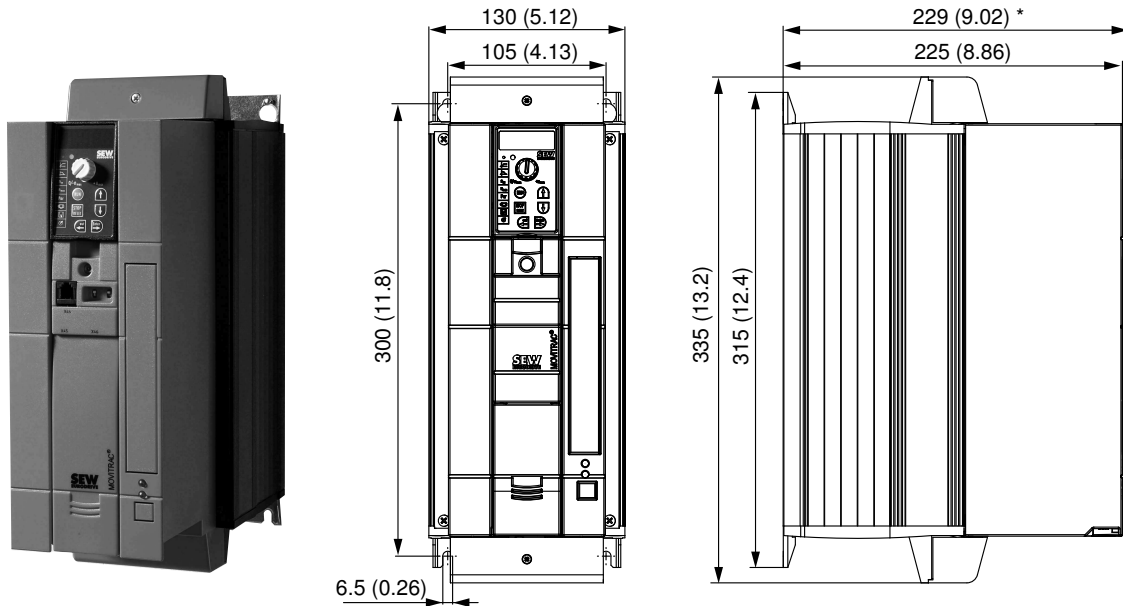
AC 230 V / 3-phase / size 1 / 3.7 kW / 5.0 HP



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MOVITRAC® MC07B (3-phase grid)		0037-2A3-4-00
Part number ("Safe stop" integrated)		828 506 3
INPUT		
Nominal line voltage	V_{line}	3 × AC 200 – 240 V
Nominal line frequency	f_{line}	50/60 Hz ±5%
Nominal line current (with $V_{line} = 3 \times AC\ 230\ V$)	I_{line} $I_{line\ 125}$	AC 12.9 A AC 16.1 A
OUTPUT		
Output voltage	V_O	3 × 0 – V_{line}
Recommended motor power 100% operation	P_{Mot}	3.7 kW / 5.0 HP
Recommended motor power 125% operation	$P_{Mot\ 125}$	5.5 kW / 7.4 HP
Nominal output current 100% operation	I_N	AC 14.5 A
Nominal output current 125% operation	$I_{N\ 125}$	AC 18.1 A
Apparent output power 100% operation	S_N	5.8 kVA
Apparent output power 125% operation	$S_{N\ 125}$	7.3 kVA
Max. output frequency	f_{max}	599 Hz
Min. permitted braking resistance (4-quadrant operation)	R_{BW_min}	27 Ω
GENERAL INFORMATION		
Power loss 100% operation	P_V	210 W
Power loss 125% operation	$P_{V\ 125}$	270 W
Type of cooling / cooling air consumption		Forced cooling / 40 m³/h
Current limiting		150% I_N for at least 60 seconds
Unit terminal cross section / tightening torque	Terminals	4 mm² / AWG12 / 0.6 Nm / 5 lb in
Dimensions	W × H × D	105 mm × 315 mm × 173 mm (4.13 in × 12.4 in × 6.81 in)
Mass	m	

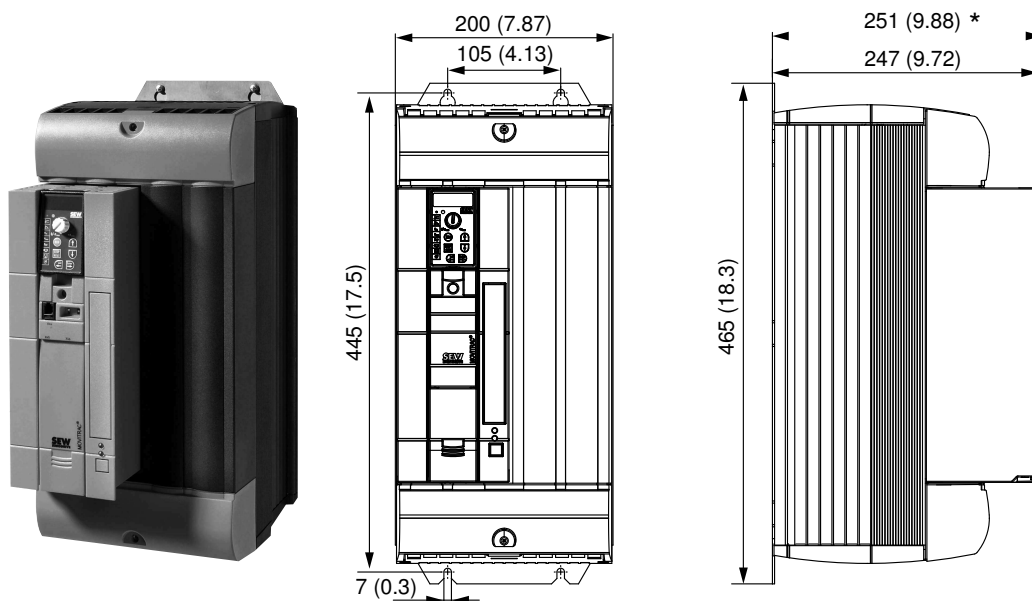
AC 230 V / 3-phase / size 2 / 5.5 / 7.5 kW / 7.4 / 10 HP



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MOVITRAC® MC07B (3-phase grid)		0055-2A3-4-00	0075-2A3-4-00
Part number ("Safe stop" integrated)		828 507 1	828 509 8
INPUT			
Nominal line voltage	V _{line}	3 × AC 200 – 240 V	
Nominal line frequency	f _{line}	50/60 Hz ±5%	
Nominal line current (with V _{line} = 3 × AC 230 V)	I _{line} I _{line 125}	AC 19.5 A AC 24.4 A	AC 27.4 A AC 34.3 A
OUTPUT			
Output voltage	V _O	3 × 0 – V _{line}	
Recommended motor power 100% operation	P _{Mot}	5.5 kW / 7.4 HP	7.5 kW / 10 HP
Recommended motor power 125% operation	P _{Mot 125}	7.5 kW / 10 HP	11 kW / 15 HP
Nominal output current 100% operation	I _N	AC 22 A	AC 29 A
Nominal output current 125% operation	I _{N 125}	AC 27.5 A	AC 36.3 A
Apparent output power 100% operation	S _N	8.8 kVA	11.6 kVA
Apparent output power 125% operation	S _{N 125}	11.0 kVA	14.5 kVA
Max. output frequency	f _{max}	599 Hz	
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	12 Ω	
GENERAL INFORMATION			
Power loss 100% operation	P _v	300 W	380 W
Power loss 125% operation	P _{v 125}	375 W	475 W
Type of cooling / cooling air consumption		Forced cooling / 80 m³/h	
Current limiting		150% I _N for at least 60 seconds	
Unit terminal cross section / tightening torque	Terminals	4 mm² / AWG12 / 0.6 Nm / 5 lb in 6 mm² / AWG10 / 1.5 Nm / 13 lb in	
Dimensions	W × H × D	130 mm × 335 mm × 229 mm (5.12 in × 13.2 in × 9.02 in)	
Mass	m		

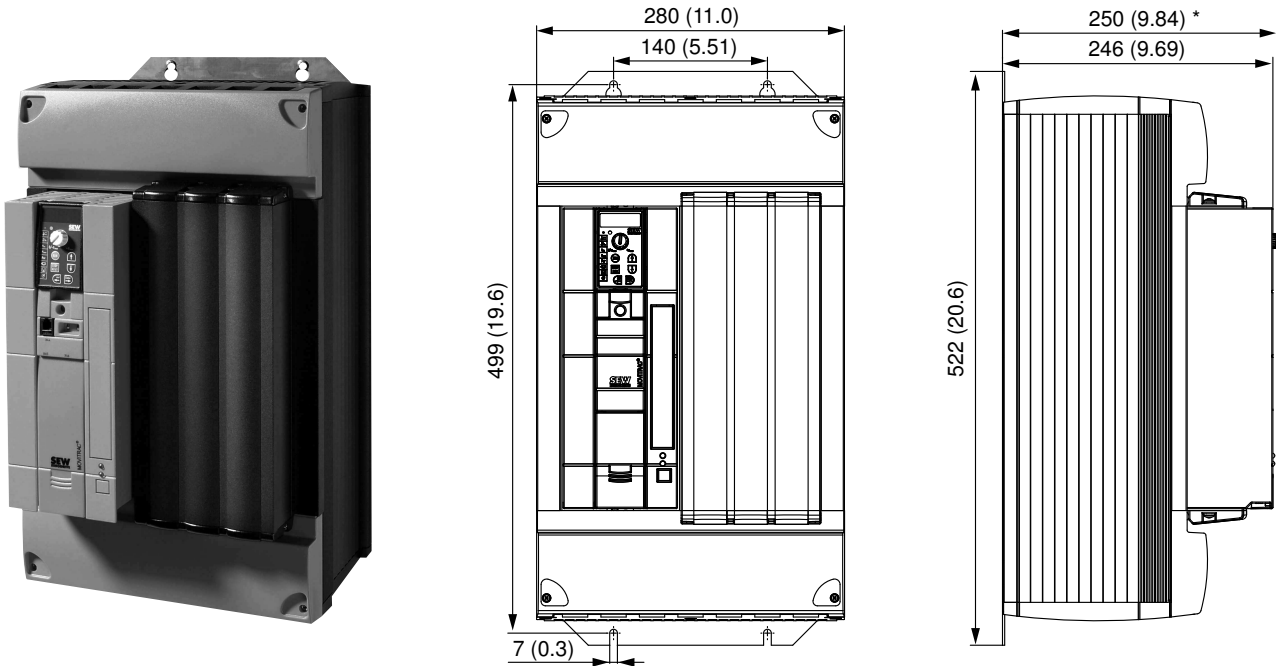
AC 230 V / 3-phase / size 3 / 11 / 15 kW / 15 / 20 HP



9007199346320523

MOVITRAC® MC07B (3-phase grid)		0110-203-4-00	0150-203-4-00
Part number ("Safe stop" integrated)		828 510 1	828 512 8
INPUT			
Nominal line voltage	V_{line}	3 × AC 200 – 240 V	
Nominal line frequency	f_{line}	50/60 Hz ±5%	
Nominal line current (with $V_{line} = 3 \times AC\ 230\ V$)	I_{line} $I_{line\ 125}$	AC 40.0 A AC 50.0 A	AC 48.6 A AC 60.8 A
OUTPUT			
Output voltage	V_O	3 × 0 – V_{line}	
Recommended motor power 100% operation	P_{Mot}	11 kW / 15 HP	15 kW / 20 HP
Recommended motor power 125% operation	$P_{Mot\ 125}$	15 kW / 20 HP	22 kW / 30 HP
Nominal output current 100% operation	I_N	AC 42 A	AC 54 A
Nominal output current 125% operation	$I_{N\ 125}$	AC 52.5 A	AC 67.5 A
Apparent output power 100% operation	S_N	16.8 kVA	21.6 kVA
Apparent output power 125% operation	$S_{N\ 125}$	21.0 kVA	26.9 kVA
Max. output frequency	f_{max}	599 Hz	
Min. permitted braking resistance (4-quadrant operation)	R_{BW_min}	7.5 Ω	5.6 Ω
GENERAL INFORMATION			
Power loss 100% operation	P_V	580 W	720 W
Power loss 125% operation	$P_{V\ 125}$	720 W	900 W
Type of cooling / cooling air consumption		Forced cooling / 180 m³/h	
Current limiting		150% I_N for at least 60 seconds	
Unit terminal cross section / tightening torque	Terminals	25 mm² / AWG4	
		3.5 Nm / 31 lb in	
Dimensions	W × H × D	200 mm × 465 mm × 251 mm (7.87 in × 18.3 in × 9.88 in)	
Mass	m		

AC 230 V / 3-phase / size 4 / 22 / 30 kW / 30 / 40 HP

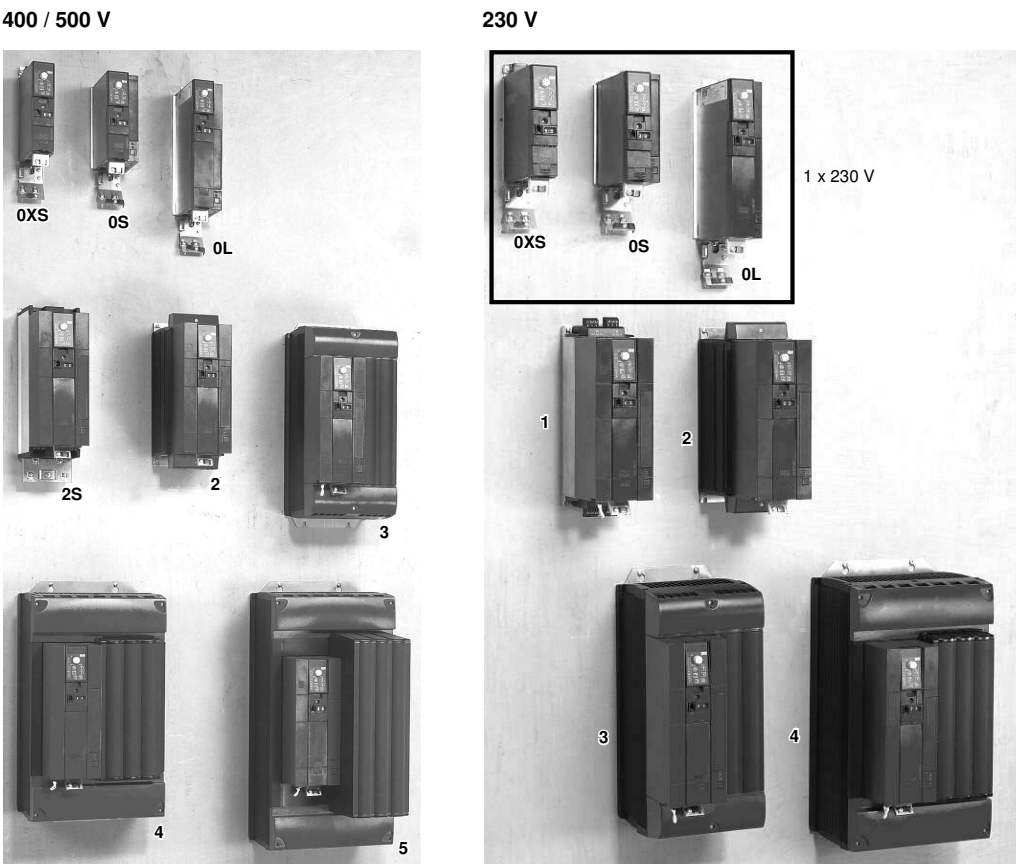


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MOVITRAC® MC07B (3-phase grid)		0220-203-4-00	0300-203-4-00
Part number ("Safe stop" integrated)		828 513 6	828 514 4
INPUT			
Nominal line voltage	V _{line}	3 × AC 200 – 240 V	
Nominal line frequency	f _{line}	50/60 Hz ±5%	
Nominal line current (with V _{line} = 3 × AC 230 V)	I _{line} I _{line 125}	AC 72 A AC 90 A	AC 86 A AC 107 A
OUTPUT			
Output voltage	V _O	3 × 0 – V _{line}	
Recommended motor power 100% operation	P _{Mot}	22 kW / 30 HP	30 kW / 40 HP
Recommended motor power 125% operation	P _{Mot 125}	30 kW / 40 HP	37 kW / 50 HP
Nominal output current 100% operation	I _N	AC 80 A	AC 95 A
Nominal output current 125% operation	I _{N 125}	AC 100 A	AC 118.8 A
Apparent output power 100% operation	S _N	31.9 kVA	37.9 kVA
Apparent output power 125% operation	S _{N 125}	39.9 kVA	47.4 kVA
Max. output frequency	f _{max}	599 Hz	
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	3 Ω	
GENERAL INFORMATION			
Power loss 100% operation	P _V	1100 W	1300 W
Power loss 125% operation	P _{V 125}	1400 W	1700 W
Type of cooling / cooling air consumption		Forced cooling / 180 m³/h	
Current limiting		150% I _N for at least 60 seconds	
Unit terminal cross section / tightening torque	Terminals	70 mm² / AWG00	
		14 Nm / 120 lb in	
Dimensions	W × H × D	280 mm × 522 mm × 250 mm (11.0 in × 20.6 in × 9.84 in)	
Mass	m		

3.1.4 Technical data of MOVITRAC® B, 1 × AC 230 V

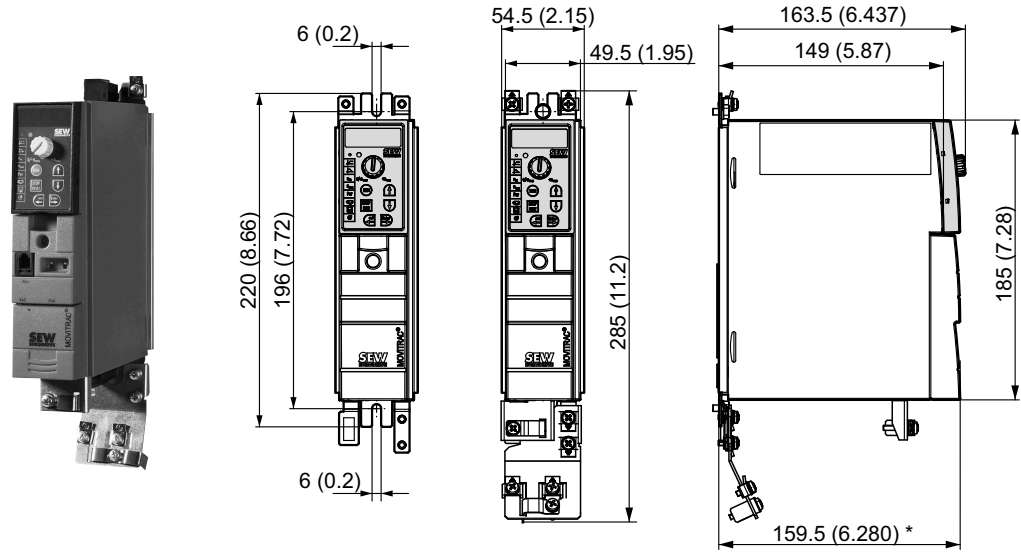
Overview of MOVITRAC® B



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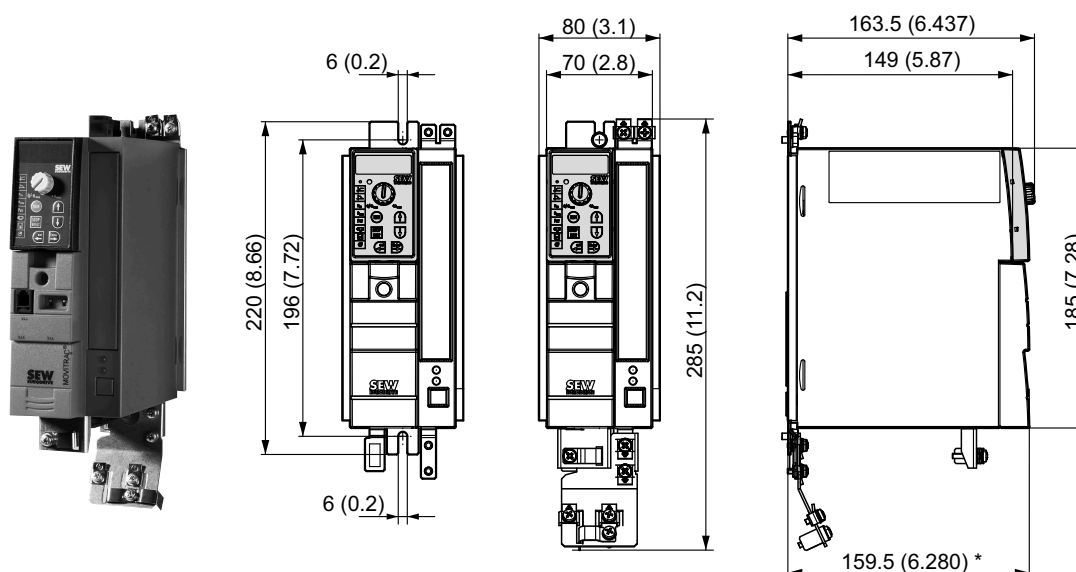
Power supply connection 230 V / 1-phase			
Size	0XS	0S	0L
Power kW/HP	0.25 / 0.34 0.37 / 0.50	0.55 / 0.74 0.75 / 1.0	1.1 / 1.5 1.5 / 2.0 2.2 / 3.0

AC 230 V / 1-phase / size 0XS / 0.25 / 0.37 kW / 0.34 / 0.50 HP



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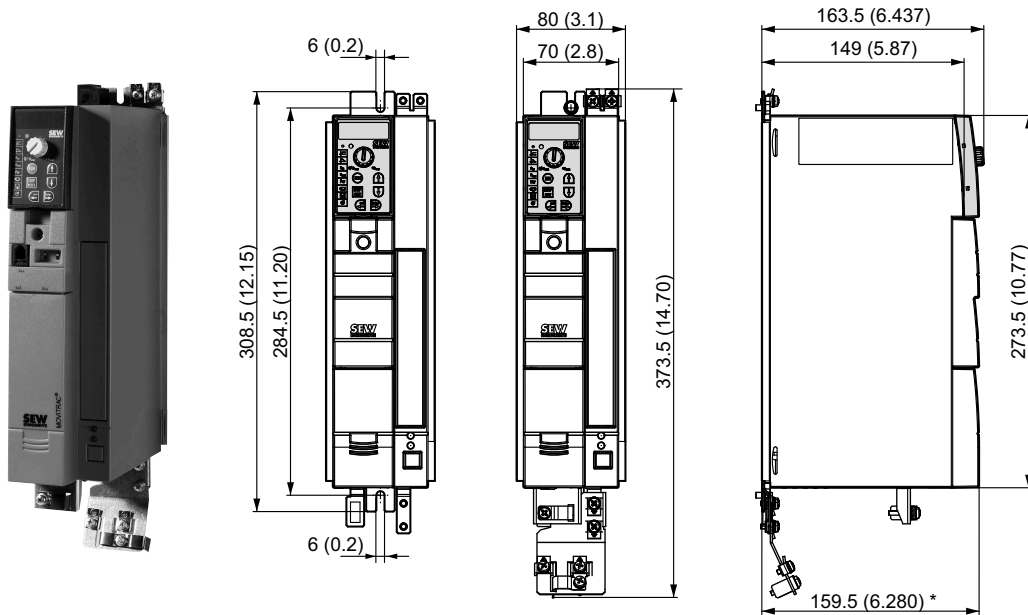
MOVITRAC® MC07B (1-phase grid)		0003-2B1-4-00	0004-2B1-4-00
Part number (without "safe stop")		828 491 1	828 493 8
INPUT			
Nominal line voltage	V _{line}	1 × AC 200 – 240 V	
Nominal line frequency	f _{line}	50/60 Hz ±5%	
Nominal line current (with V _{line} = 1 × AC 230 V)	I _{line} I _{line 125}	AC 4.3 A AC 5.5 A	AC 6.1 A AC 7.5 A
OUTPUT			
Output voltage	V _O	3 × 0 – V _{line}	
Recommended motor power 100% operation	P _{Mot}	0.25 kW / 0.34 HP	0.37 kW / 0.50 HP
Recommended motor power 125% operation	P _{Mot 125}	0.37 kW / 0.50 HP	0.55 kW / 0.74 HP
Nominal output current 100% operation	I _N	AC 1.7 A	AC 2.5 A
Nominal output current 125% operation	I _{N 125}	AC 2.1 A	AC 3.1 A
Apparent output power 100% operation	S _N	0.7 kVA	1.0 kVA
Apparent output power 125% operation	S _{N 125}	0.9 kVA	1.3 kVA
Max. output frequency	f _{max}	599 Hz	
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	27 Ω	
GENERAL INFORMATION			
Power loss 100% operation	P _V	30 W	35 W
Power loss 125% operation	P _{V 125}	35 W	45 W
Type of cooling / cooling air consumption		Natural convection / –	
Current limiting		150% I _N for at least 60 seconds	
Unit terminal cross section / tightening torque	Terminals	4 mm ² / AWG12 / 0.5 Nm / 4 lb in	
Dimensions	W × H × D	54.5 mm × 185 mm × 163.5 mm (2.15 in × 7.28 in × 6.437 in)	
Mass	m	1.3 kg / 2.9 lb	

AC 230 V / 1-phase / size 0S / 0.55 / 0.75 kW / 0.74 / 1.0 HP

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MOVITRAC® MC07B (1-phase grid)		0005-2B1-4-00	0008-2B1-4-00
Part number (without "safe stop")		828 494 6	828 495 4
INPUT			
Nominal line voltage	V _{line}	1 × AC 200 – 240 V	
Nominal line frequency	f _{line}	50/60 Hz ±5%	
Nominal line current (with V _{line} = 1 × AC 230 V)	I _{line} I _{line 125}	AC 8.5 A AC 10.2 A	AC 9.9 A AC 11.8 A
OUTPUT			
Output voltage	V _O	3 × 0 – V _{line}	
Recommended motor power 100% operation Recommended motor power 125% operation	P _{Mot} P _{Mot 125}	0.55 kW / 0.74 HP 0.75 kW / 1.0 HP	0.75 kW / 1.0 HP 1.1 kW / 1.5 HP
Nominal output current 100% operation Nominal output current 125% operation	I _N I _{N 125}	AC 3.3 A AC 4.1 A	AC 4.2 A AC 5.3 A
Apparent output power 100% operation Apparent output power 125% operation	S _N S _{N 125}	1.4 kVA 1.7 kVA	1.7 kVA 2.1 kVA
Max. output frequency	f _{max}	599 Hz	
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	27 Ω	
GENERAL INFORMATION			
Power loss 100% operation Power loss 125% operation	P _V P _{V 125}	45 W 50 W	50 W 65 W
Type of cooling / cooling air consumption		Natural convection / –	
Current limiting		150% I _N for at least 60 seconds	
Unit terminal cross section / tightening torque	Terminals	4 mm ² / AWG12 / 0.5 Nm / 4 lb in	
Dimensions	W × H × D	80 mm × 185 mm × 163.5 mm (3.1 in × 7.28 in × 6.437 in)	
Mass	m	1.5 kg / 3.3 lb	

AC 230 V / 1-phase / size 0L / 1.1 / 1.5 / 2.2 kW / 1.5 / 2.0 / 3.0 HP



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MOVITRAC® MC07B (1-phase grid)		0011-2B1-4-00	0015-2B1-4-00	0022-2B1-4-00
Part number (without "safe stop")		828 496 2	828 497 0	828 498 9
INPUT				
Nominal line voltage	V _{line}	1 × AC 200 – 240 V		
Nominal line frequency	f _{line}	50/60 Hz ±5%		
Nominal line current (with V _{line} = 1 × AC 230 V)	I _{line} I _{line 125}	AC 13.4 A AC 16.8 A	AC 16.7 A AC 20.7 A	AC 19.7 A AC 24.3 A
OUTPUT				
Output voltage	V _O	3 × 0 – V _{line}		
Recommended motor power 100% operation	P _{Mot}	1.1 kW / 1.5 HP	1.5 kW / 2.0 HP	2.2 kW / 3.0 HP
Recommended motor power 125% operation	P _{Mot 125}	1.5 kW / 2.0 HP	2.2 kW / 3.0 HP	3.0 kW / 4.0 HP
Nominal output current 100% operation	I _N	AC 5.7 A	AC 7.3 A	AC 8.6 A
Nominal output current 125% operation	I _{N 125}	AC 7.1 A	AC 9.1 A	AC 10.8 A
Apparent output power 100% operation	S _N	2.3 kVA	3.0 kVA	3.5 kVA
Apparent output power 125% operation	S _{N 125}	2.9 kVA	3.7 kVA	4.3 kVA
Max. output frequency	f _{max}	599 Hz		
Min. permitted braking resistance (4-quadrant operation)	R _{BW_min}	27 Ω		
GENERAL INFORMATION				
Power loss 100% operation	P _V	70 W	90 W	105 W
Power loss 125% operation	P _{V 125}	90 W	110 W	132 W
Type of cooling / cooling air consumption		Natural convection		Forced cooling / 18 m³/h
Current limiting		150% I _N for at least 60 seconds		
Unit terminal cross section / tightening torque	Terminals	4 mm² / AWG12 / 0.5 Nm / 4 lb in		
Dimensions	W × H × D	80 mm × 273.5 mm × 163.5 mm (3.1 in × 10.77 in × 6.437 in)		
Mass	m	2.2 kg / 4.9 lb		

4 HD output chokes

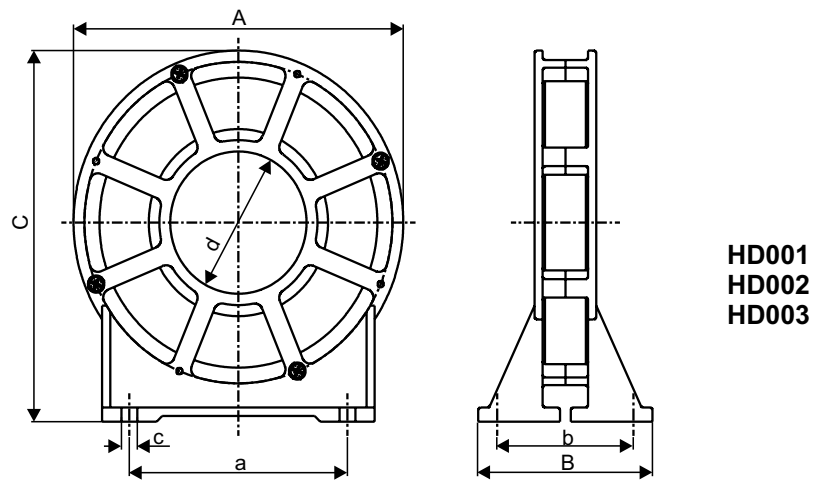
You can reduce the interference emission of the unshielded motor cable by using an output choke.

Output choke type	HD001	HD002	HD003
Part number	813 325 5	813 557 6	813 558 4
Max. power loss P _{Vmax}	15 W	8 W	30 W
Mass	0.5 kg (1 lb)	0.2 kg (0.4 lb)	1.1 kg (2.4 lb)
For cable cross sections	1.5 – 16 mm ² AWG16 – 6	≤ 1.5 mm ² ≤ AWG16	≥ 16 mm ² ≥ AWG6

Output choke type	HD012	HD100	HD101
Part number	1821 217 4	829 837 8	829 838 6
Nominal current	12 A	5.3 A	11.9 A
Power loss (at nominal current)	11 W	20 W	
Ambient temperature	-10 °C to +60 °C Derating 3% I _N at 40 °C to 60 °C	-10 °C to +60 °C Derating 2.5% I _N per K at 40 °C to 50 °C 3% I _N per K at 50 °C to 60 °C	
Degree of protection	IP20		
Mains and motor connection	≤ 4 mm ² ≤ AWG12	Screw terminals 4 mm ² (AWG 10)	
Inverter connection		Cables with conductor end sleeves	
Mass	0.55 kg (1.2 lb)	0.40 kg (0.88 lb)	0.48 kg (1.1 lb)
Can be submounted for size	Cannot be sub-mounted	0S	0L
For MOVITRAC® B...-5A3	0003 – 0040	0005 / 0008 / 0011 / 0015	0022 / 0030 / 0040
For MOVITRAC® B...-2A3	0003 – 0022	0005 / 0008	0011 / 0015 / 0022

4.1 Dimension drawing HD001 – HD003

The following figure shows the mechanical dimensions in mm (in):

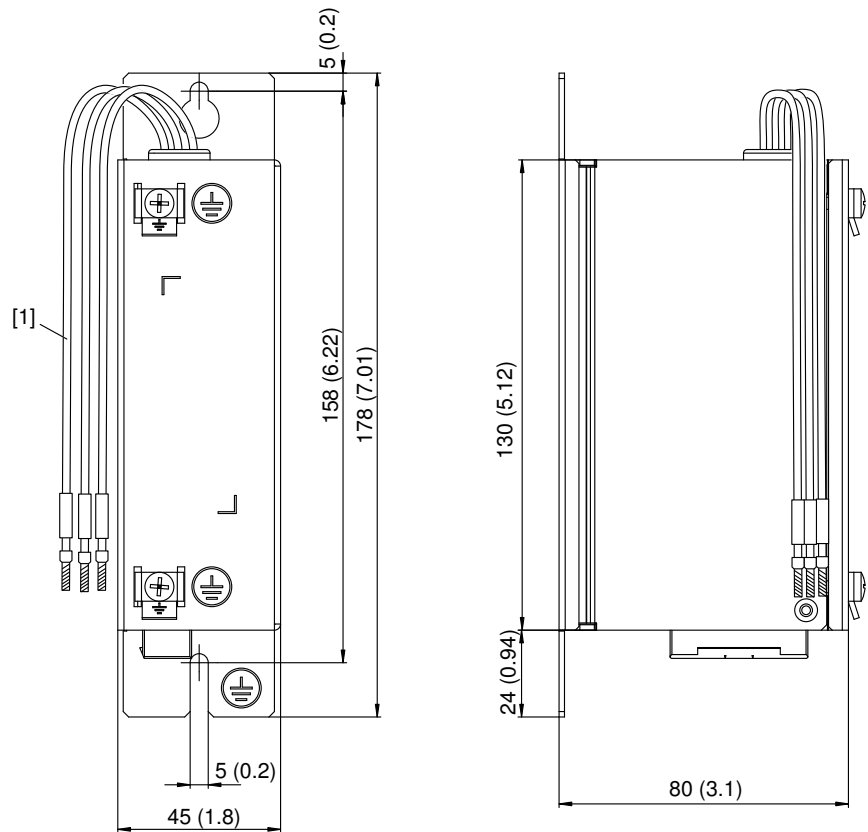


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Output choke type	Main dimensions mm (in)			Mounting dimensions mm (in)		Inner Ø mm (in)	Hole dimension mm (in)	Mass
	A	B	C	a	b	d	c	kg (lb)
HD001	121 (4.76)	64 (2.5)	131 (5.16)	80 (3.1)	50 (2.0)	50 (2.0)	5.8 (0.23)	0.5 (1)
HD002	66 (2.6)	49 (1.9)	73 (2.9)	44 (1.7)	38 (1.5)	23 (0.91)		0.2 (0.4)
HD003	170 (6.69)	64 (2.5)	185 (7.28)	120 (4.72)	50 (2.0)	88 (3.5)	7.0 (0.28)	1.1 (2.4)

4.2 Dimension drawing HD012

The following figure shows the mechanical dimensions in mm (in):



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[1] Length = 100 mm (3.94 in)

5 EMC module FKE12B / FKE13B

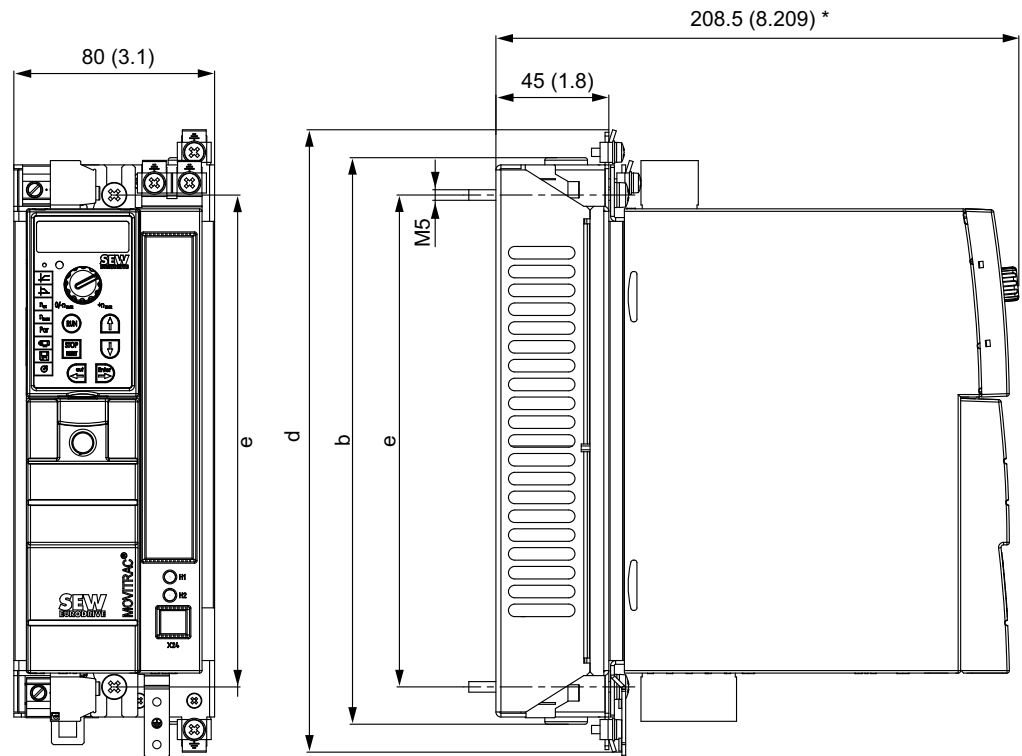
Using the EMC module, you can reach limit class C1 (B). The EMC module is designed for 100% and 125% operation.

5.1 Technical data

Type	FKE12B	FKE13B
Part number	829 590 5	829 591 3
Nominal voltage	3 × AC 230 – 500 V	
Voltage drop in the filter (at nominal current)	< 1%	
Nominal current	5.3 A	11.9 A
Power loss (at nominal current)	20 W	
Ambient temperature	-10 °C to +60 °C Derating 2.5% I _N per K at 40 °C to 50 °C 3% I _N per K at 50 °C to 60 °C	
Degree of protection	IP20	
Mains and motor connection	Terminal screw 4 mm ² (AWG10)	
Inverter connection	Cables with conductor end sleeves	
Mass	0.40 kg (0.88 lb)	0.48 kg (1.1 lb)
Can be submounted for size	0S	0L
For MOVITRAC® B...-5A3	0005 / 0008 / 0011 / 0015	0022 / 0030 / 0040
For MOVITRAC® B...-2A3	0005 / 0008	0011 / 0015 / 0022

5.2 Dimension drawing of EMC modules FKE12B / FKE13B

All dimensions are specified in mm (in).

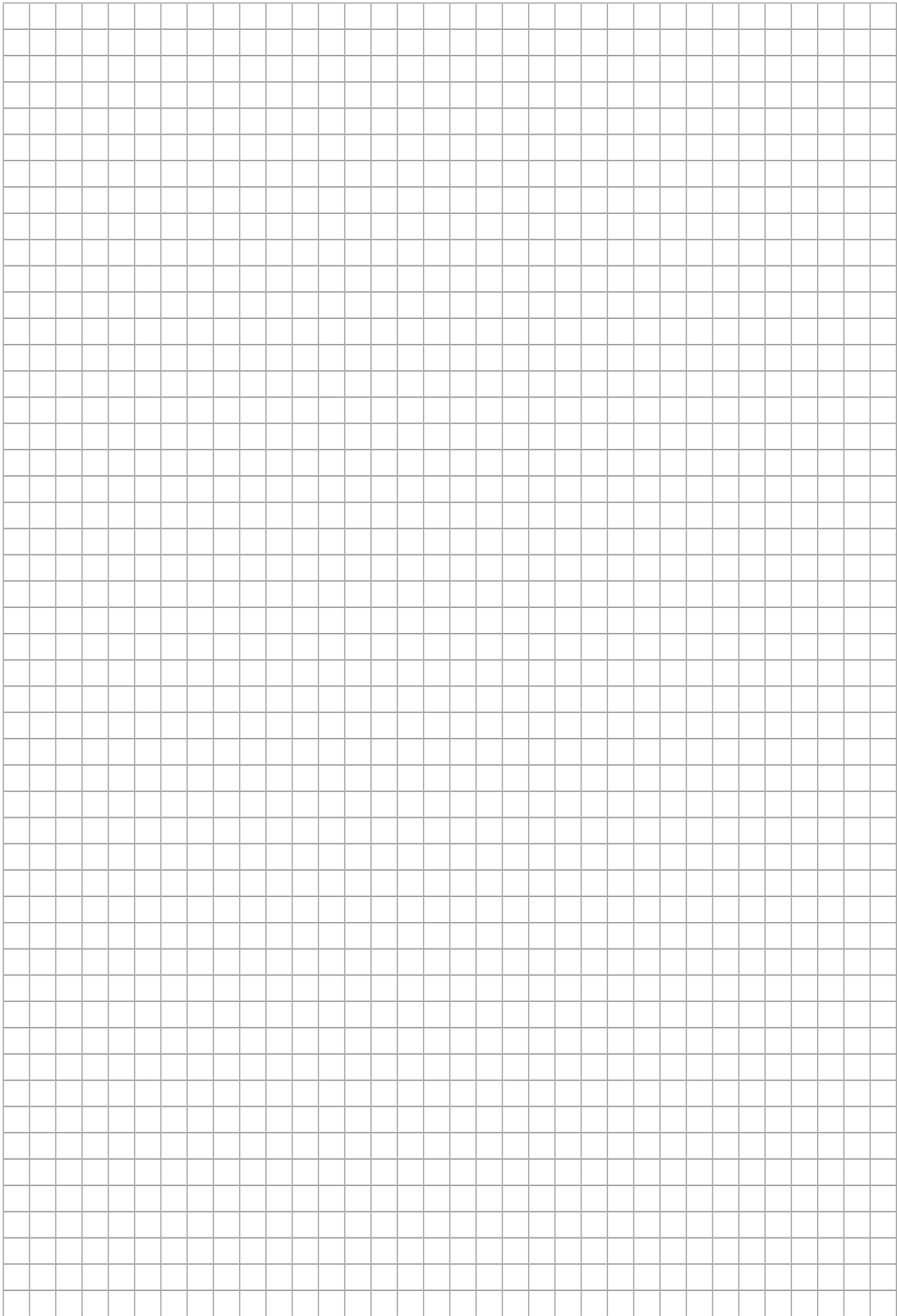


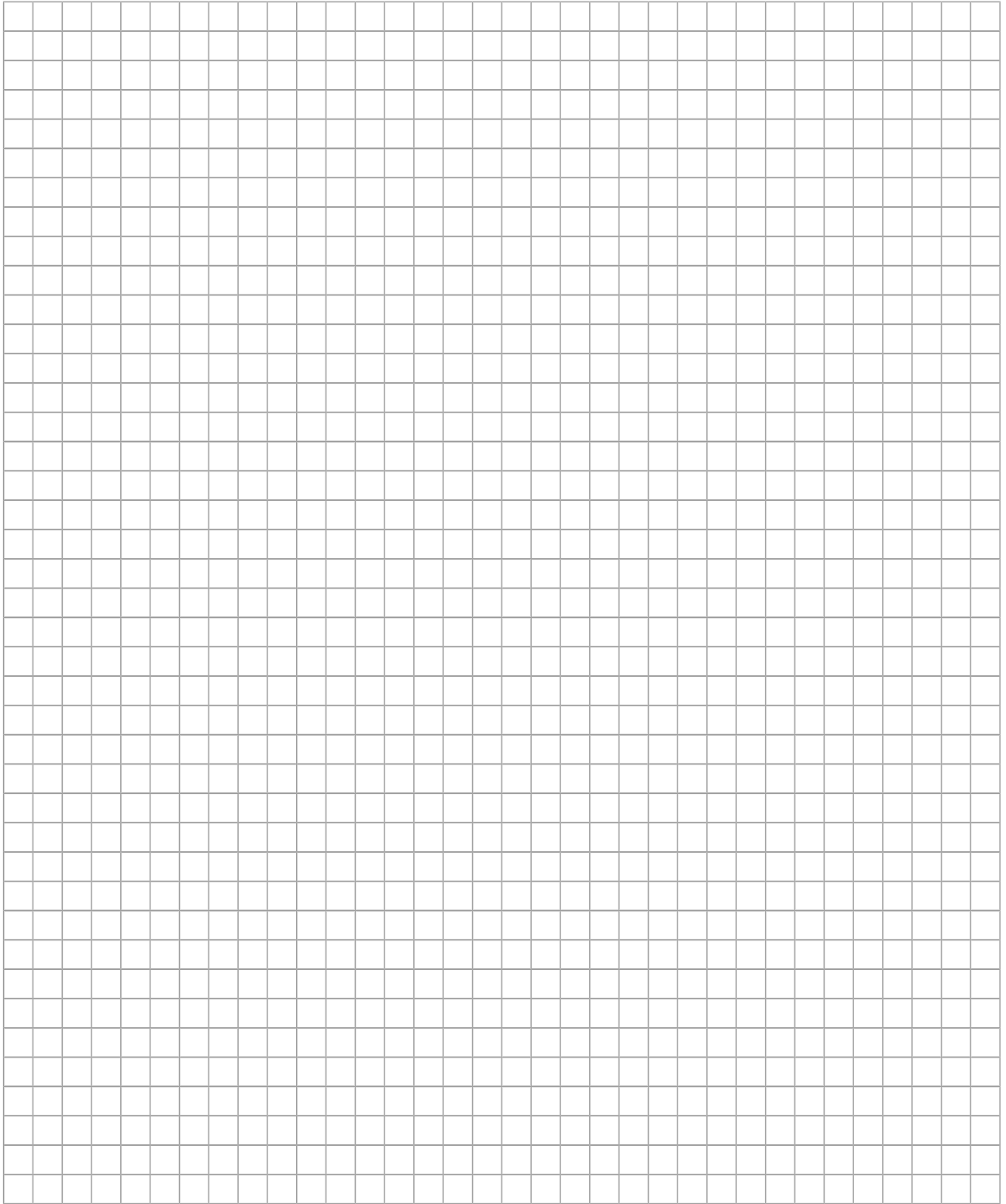
9007199616643467

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* With front module FSE24B + 4 mm (0.16 in)

EMC module	MOVITRAC® B	Main dimensions in mm (in)		
		b	d	e
FKE12B	Size 0S	226 (8.90)	248 (9.76)	196 (7.72)
FKE13B	Size 0L	314.5 (12.38)	336.5 (13.25)	284.5 (11.20)







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