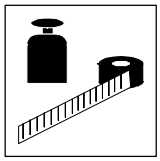


3.3 Rated data

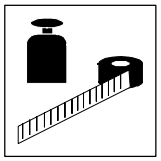
3.3.1 Types 9321 to 9325

	Type	EVS9321-EP	EVS9322-EP	EVS9323-EP	EVS9324-EP	EVS9325-EP
	Order No.	EVS9321-EP	EVS9322-EP	EVS9323-EP	EVS9324-EP	EVS9325-EP
	Type	**EVS9321-CP**	**EVS9322-CP**	**EVS9323-CP**	**EVS9324-CP**	**EVS9325-CP**
	Order No.	EVS9321-CP	EVS9322-CP	EVS9323-CP	EVS9324-CP	EVS9325-CP
Mains voltage	V_r [V]	320 V - 0 % ≤ V_r ≤ 528 V + 0 % ; 45 Hz - 0 % ... 65 Hz + 0 %				
Alternative DC supply	V_{DC} [V]	460 V - 0 % ≤ V_{DC} ≤ 740 V + 0 %				
Mains current with mains filter Mains current without mains filter	I_r [A]	1.5 2.1	2.5 3.5	3.9 5.5	7.0 -	12.0 16.8
Ratings for operation at a mains: 3 AC / 400V / 50Hz/60Hz						
Motor power (4-pole ASM)	P_r [kW]	0.37	0.75	1.5	3.0	5.5
	P_r [hp]	0.5	1.0	2.0	4.0	7.5
Output power U, V, W (8kHz*)	S_{r8} [kVA]	1.0	1.7	2.7	4.8	9.0
Output power $+U_{DC}$, $-U_{DC}$ 2)	P_{DC} [kW]	2.0	0.75	2.2	0.75	0
Output current (8 kHz*)	I_{r8} [A]	1.5	2.5	3.9	7.0	13.0
Output current (16 kHz*)	I_{r16} [A]	1.1	1.8	2.9	5.2	9.7
Max. output current (8 kHz*)1)	I_{max8} [A]	2.3	3.8	5.9	10.5	19.5
Max. output current (16 kHz*)1)	I_{max16} [A]	1.7	2.7	4.4	7.8	14.6
Max. standstill current (8 kHz*)	I_{08} [A]	2.3	3.8	5.9	10.5	19.5
Max. standstill current (16 kHz*)	I_{016} [A]	1.7	2.7	4.4	7.8	14.6
Ratings for operation at a mains: 3 AC / 480V / 50Hz/60Hz						
Motor power (4-pole ASM)	P_r [kW]	0.37	0.75	1.5	3.0	5.5
	P_r [hp]	0.5	1.0	2.0	4.0	7.5
Output power U, V, W (8kHz*)	S_{r8} [kVA]	1.2	2.1	3.2	5.8	10.8
Output power $+U_{DC}$, $-U_{DC}$ 2)	P_{DC} [kW]	2.0	0.75	2.2	0.75	0
Output current (8 kHz*)	I_{r8} [A]	1.5	2.5	3.9	7.0	13.0
Output current (16 kHz*)	I_{r16} [A]	1.1	1.8	2.9	5.2	9.7
Max. output current (8 kHz*)1)	I_{max8} [A]	2.3	3.8	5.9	10.5	19.5
Max. output current (16 kHz*)1)	I_{max16} [A]	1.7	2.7	4.4	7.8	14.6
Max. standstill current (8 kHz*)	I_{08} [A]	2.3	3.8	5.9	10.5	19.5
Max. standstill current (16 kHz*)	I_{016} [A]	1.7	2.7	4.4	7.8	14.6
Motor voltage	V_M [V]	0 - 3 × V_{Mains}				
Power loss (operation with I_{ratedx})	P_{loss} [W]	100	110	140	200	260
Power derating	[%/K] [%/m]	40 °C < T_V < 55 °C: 2%/K (not UL approved) 1000 m amsl < h ≤ 4000 m amsl: 5%/1000m				
Weight	m [kg]	3.5	3.5	5.0	5.0	7.5

1) The currents apply to a periodical load cycle with 1 minute overcurrent with the current mentioned here and 2 minutes base load with 75% I_{ratedx}

2) When operated under rated load, the controller can supply this power additionally.

* Chopper frequency of the inverter (C0018)



3.3.2 Types 9321 to 9324 with 200 % overcurrent

	Type	EVS9321-EP	EVS9322-EP	EVS9323-EP	EVS9324-EP
Ratings for operation at a mains: 3 AC / 400V / 50Hz/60Hz					
Motor power (4-pole ASM)	P_r [kW]	0.37	0.75	1.5	3.0
	P_r [hp]	0.5	1.0	2.0	4.0
Output power U, V, W (8 kHz)	S_{r8} [kVA]	1.0	1.7	2.7	4.8
Output current (8 kHz) [2]	I_{r8} [A]	1.5	2.5	3.9	7.0
Output current (16 kHz) [2]	I_{r16} [A]	1.1	1.8	2.9	5.2
max output current (8 kHz)[1]	I_{max8} [A]	3.0	5.0	7.8	14.0
max output current (16 kHz)[1]	I_{max16} [A]	2.2	3.6	5.8	10.4
max. standstill current (8 kHz)	I_{08} [A]	3.0	5.0	7.8	14.0
max. standstill current (16 kHz)	I_{016} [A]	2.2	3.6	5.8	10.4
Ratings for operation at a mains: 3 AC / 480V / 50Hz/60Hz					
Motor power (4-pole ASM)	P_r [kW]	0.37	0.75	1.5	3.0
	P_r [hp]	0.5	1.0	2.0	4.0
Output power U, V, W (8 kHz)	S_{r8} [kVA]	1.2	2.1	3.2	5.8
Output current (8 kHz) [2]	I_{r8} [A]	1.5	2.5	3.9	7.0
Output current (16 kHz) [2]	I_{r16} [A]	1.1	1.8	2.9	5.2
max output current (8 kHz)[1]	I_{max8} [A]	3.0	5.0	7.8	14.0
max output current (16 kHz)[1]	I_{max16} [A]	2.2	3.6	5.8	10.4
max. standstill current (8 kHz)	I_{08} [A]	3.0	5.0	7.8	14.0
max. standstill current (16 kHz)	I_{016} [A]	2.2	3.6	5.8	10.4

1) The currents apply to a periodical load cycle with 10 seconds overcurrent with the current mentioned here and 50 seconds base load with 44 % I_{rx}

Majority in indiv. cases	Setting in code C0022	thermal continuous current	Maximum current phase	Recovery phase
Continuous power	$I_{max} \leq 150$ % I_{rX}	100 % I_{rX}	150 % I_{rX} for 60 s	75 % I_{rX} for 120 s
Peak power	$I_{max} > 150$ % I_{rX}	70 % I_{rX}	200 % I_{rX} for 10 s	44 % I_{rX} for 50 s

2) This output current Irx applies for a maximum current to be set under C022 which has not exceeded 150% of the rated controller current (nameplate).
If the maximum current is higher than this value, the continuous current reduces automatically to 70% of the original value.

Overcurrent diagram: 📖 7-4

All other data: 📖 3-3

Tip!

You can switch to $I_{max} > 150$ % I_{rX} only if the controller is inhibited.