

## Section 2 - Technical Specifications

### 2.1 Electrical Specifications

AE-LIFT STO Motor Driver technical specifications and maximum ratings are shown in Table 2.1. Motor driver will be damaged if maximum ratings are exceeded or if improper auxiliary units are used. For this reason select auxiliary devices according to the tables shown below.

Table 2.1 Electrical Specifications of AE-LIFT STO Motor Drivers

MODEL	AES04	AES05	AES07	AES11	AES15	AES22	AES30
<b>Nominal Motor Power</b>	4 kW (5.5 HP)	5.5 kW (7.5 HP)	7.5 kW (10 HP)	11 kW (15 HP)	15 kW (20 HP)	22 kW (30 HP)	30 kW (40 HP)
<b>Nominal Output Current</b>	9 A	13 A	18 A	25 A	32 A	45 A	60 A
<b>Maximum Current Allowed Time</b>	18 A 5 s	26 A 5 s	36 A 5 s	50 A 5 s	64 A 5 s	90 A 5 s	120 A 5 s
<b>Control Circuit Input Voltage</b>	1-Phase 100V.....240V AC 50/60 Hz +- %5						
<b>Nominal Supply Voltage</b>	3-Phase 340V.....420V AC 50/60 Hz +- %5						
<b>Nominal Output Voltage</b>	3-Phase 0V.....420V AC 0.....100 Hz						
<b>Carrier Frequency</b>	6....16 KHz						

Table 2.2 Electrical Specifications of Braking Resistors

MODEL	AES04	AES05	AES07	AES11	AES15	AES22	AES30
<b>Braking Resistor Values</b>	120 Ω	80 Ω	60 Ω	40 Ω	30 Ω	20 Ω	15 Ω
<b>Minimum Resistor Power of Asynchronous Motor for low traffic or low rise buildings</b>	1.000W	1.200W	1.500W	2.200W	3.000W	4.400W	6.000W
<b>Minimum Resistor Power of Synchronous Motor for low traffic or low rise buildings</b>	1.500W	1.800W	2.250W	3.300W	4.500W	6.600W	9.000W
<b>Resistor Power for high traffic or high rise buildings</b>	3.500W	5.000W	7.000W	10.000W	14.000W	20.000W	30.000W

Table 2.3 AE-LIFT STO DC Reactor Selection List

Device Model	DC Reactor Model	DC Reactor Inductance	DC Reactor Current
AES04	DR04	7.0 mH	10 A
AES05	DR05	4.0 mH	14 A
AES07	DR07	3.5 mH	20 A
AES11	DR11	2.2 mH	27 A
AES15	DR15	1.8 mH	35 A
AES22	DR22	1.3 mH	50 A
AES30	DR30	1.0 mH	70 A