

# ARTDrive L - AVRy

The Lift drive with built-in power recovery

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The AVRy series inverter offers the latest technology to meet the high demands of today's civil lift engineering sector.

It's the single solution that provides cutting edge control for both asynchronous and synchronous motors used in the lift industry.

AVRy's advanced features, including its "clean energy" recovery technology (harmonic resonance < 4%), and high performance in terms of the dynamics and comfort of installation, guarantee considerable savings in operating energy costs.

### Applications:

- Speed range up to 5m/s and beyond
- Geared and gearless

### General Specifications:

- Power supply: 3 x 400Vac...480Vac, 50/60Hz
- Motor ratings from 11kW (15Hp) to 22kW (30Hp)
- Unit cosphi operation
- Harmonic resonance < 4%

## Il drive per gli impianti Lift con recupero di energia integrato

La serie AVRy offre la più evoluta tecnologia per il settore del sollevamento civile.

Una singola soluzione che oltre ad integrare il controllo per motori sincroni ed asincroni consente il recupero in rete di "energia pulita" (distorsione armonica < 4%), garantendo un considerevole risparmio sull'operatività di impianto nonché massime prestazioni in termini di dinamica e comfort.

### Applicazioni:

- Range di velocità impianto fino a 5m/s ed oltre
- Motori Geared e Gearless

### Caratteristiche principali:

- Alimentazione: 3 x 400Vac...480Vac, 50/60Hz
- Range potenze da 11kW (15Hp) a 22kW (30Hp)
- Cosphi unitario
- Distorsione armonica < 4%



# ...life is elevation.

English\_Italiano



## ARTDrive L “AVRy” Technical Specifications

### LINE SIDE

Drive Type		14/25 Size	25/45 Size	33/60 Size
$U_{LN}$	[V]	3 x 400 - 15%...3 x 480 + 10%, 50/60Hz $\pm$ 5% (230V version available upon request)		
Nominal mains input voltages	[V]	3 x 400 $\pm$ 15%, 3 x 460/480 $\pm$ 10%		
$\cos\phi_{L1}$		$\approx$ +1 (motor), $\approx$ -1 (generator) better than $\pm$ 0.95		
Rated input power (see motor side output load cycle)	[KVA]	12	22	29
Rated input current $I_{LN}$ @ $U_{LN}$ = 400Vac	[AAC]	18	32	42
Rated input current $I_{LN}$ @ $U_{LN}$ = 460Vac/480Vac	[AAC]	13	28	37
THD of $I_{LN}$ (ref.to $I_{L1}$ and @ $I_{sc}$ =100)	[%]	$\leq$ 4		
Efficiency	[%]	$\geq$ 96		
Modulation type		Space vector PWM		
Default modulation frequency	[kHz]	16	8	8

Additional sizes are available upon request.

### MOTOR SIDE

Drive Type		14/25 Size	25/45 Size	33/60 Size
Output voltage range $U_2$	[V]	0...513		
Output frequency range $f_2$	[Hz]	0...400		
Modulation frequency	[kHz]	8,12 or 16		
Rated output current $I_2$	[Arms]	14	25	33
Rated output overload current $I_{2OV}$	[Arms]	25	45	60

### Dimensions

mm (inches)

