YASKAWA – IP54 Solutions

Product Launch Information

18.4.2012, C. Schreiter

YASKAWA – IP54 Ready

Product

- A1000 based ready to be mounted in IP54 Cabinet
- 400 V, 44A to 165 A (18.5 kW (HD) to 90 kW (ND))
- Mounting flange with sealing part of chassis
- All Standard A1000 features and functions
- CE, RoHS (no UL!)

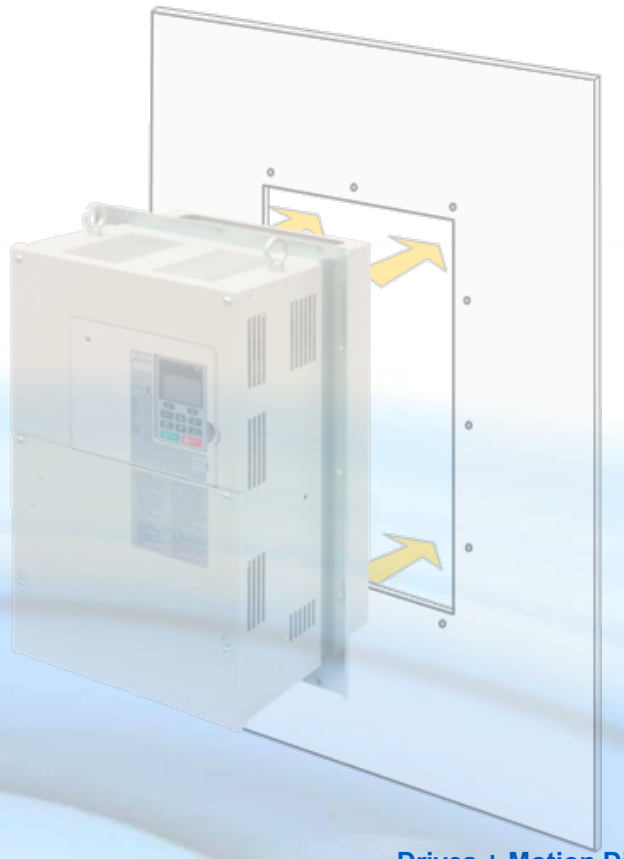
Features

- Easy Installation out of the box
- Heatsink out the back mounting brings heat loss outside panel and allows for very compact panels in IP54

Application

- HVAC, Pump, machines or installations with low space
- Installation of multiple drives in one IP54 panel

A1000 IP54 Ready
Heat sink out the back mounting



YASKAWA – IP54 Wall Mount

Product

- A1000 in IP54 Cabinet
- 400 V, 44A to 165 A (18.5 kW (HD) to 90 kW (ND))
- All Standard A1000 features and functions
- EMC filter built in
- CE, RoHS (no UL!)
- Lockable mains switch optional
- Scope of delivery: Drive, Quick Start Guide, Panel key
  (!!! Cable glands must be bought separately → check QSG for details)

Features

- Easy installation out of the box, no panel design required
- For use in wet and dirty environment
- Decentralised installation close to machine

Applications

- HVAC, Pump, Fan
- Compressor, Hydraulic power pack
- Retrofit of machines with no panel → Energy saving, ready to install solution

Model Code

CIMR-	A	C	4	A	0044	T	A	A	-	XXXX
A	B	C	D	E	F	G	H	J		K

A	Yaskawa Standard AC Inverter	CIMR	
B	Inverter Series	A:	A1000 Series
C	Region/Customization	C:	Europe, CE conform
D	Voltage Class	4:	400 V, three phase
E	Base Inverter	A:	A1000
F	Rated Output Current		0044 to 0165
G	Enclosure	T:	IP54 Wall Mount, CE, non UL
		W:	IP54 Ready
H	Environmental Conditions	A:	Standard
J	Revision	A through Z	
K	Additional Spec	Blank: IP54 panel drive, standard EMC filter, no mains isolator	
		0095: IP54 panel drive, standard EMC filter, mains isolator	
		0098: IP54 panel drive, IT grid EMC filter (contact PM in case of demand)	

Model List

Type	Power [kW]	Model Code
A1000 IP54 Wall Mount	18.5	CIMR-AC4A0044TAA
	22	CIMR-AC4A0058TAA
	30	CIMR-AC4A0072TAA
	37	CIMR-AC4A0088TAA
	45	CIMR-AC4A0103TAA
	55	CIMR-AC4A0139TAA
	75	CIMR-AC4A0165TAA
A1000 IP54 Wall Mount with built in mains Switch	18.5	CIMR-AC4A0044TAA-0095
	22	CIMR-AC4A0058TAA-0095
	30	CIMR-AC4A0072TAA-0095
	37	CIMR-AC4A0088TAA-0095
	45	CIMR-AC4A0103TAA-0095
	55	CIMR-AC4A0139TAA-0095
	75	CIMR-AC4A0165TAA-0095
A1000 IP54 Ready	18.5	CIMR-AC4A0044WAA
	22	CIMR-AC4A0058WAA
	30	CIMR-AC4A0072WAA
	37	CIMR-AC4A0088WAA
	45	CIMR-AC4A0103WAA
	55	CIMR-AC4A0139WAA
	75	CIMR-AC4A0165WAA
A1000 IP54 Wall Mount with built in IT Grid Filter	18.5	CIMR-AC4A0044TAA-0098
	22	CIMR-AC4A0058TAA-0098
	30	CIMR-AC4A0072TAA-0098
	37	CIMR-AC4A0088TAA-0098
	45	CIMR-AC4A0103TAA-0098
	55	CIMR-AC4A0139TAA-0098
	75	CIMR-AC4A0165TAA-0098

Can be made on request

Specification

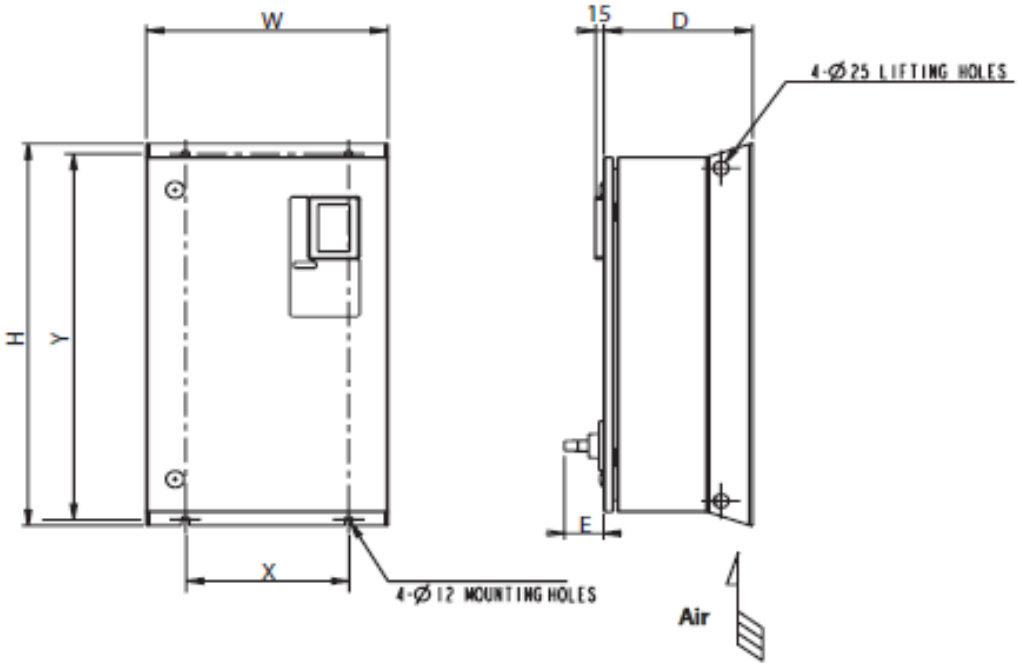
	IP54 Ready (CIMR-AC4AxxxxWAA)	IP54 Wall Mount (CIMR-AC4AxxxxTAA)
Power	18.5 kW to 75 kW (Heavy Duty)	
Input Voltage	380~480 Vac , 50/60 Hz	
Display	Clear text LCD, 8 languages	
Ambient temperature	Panel outside -10 to 40 °C; 50 °C inside	-10 to + 40 °C
Digital Inputs/Outputs	8 inputs, Sink/Source selectable; 4 Relay outputs	
Analog Inputs/Outputs	3 inputs, -10 to 10V / 0..20 mA selectable, 1 usable as PTC input; 2 outputs, -10 to 10V / 4 to 20 mA selectable	
Pulse Input/Output	1 pulse input, 0 to 32 kHz; 1 pulse output, 0 to 32 kHz	
Serial Communcation	Built in, RS422/485, up to 115 kBps, Memobus protocol	
Functional Safety	STO (Safe Torque Off), ISO13849 PLd	
Motor Control	Open Loop, Closed Loop, Induction and PM motors	
Options	Analogue I/O, Digital I/O, Fieldbus, Speed feedback	

* Coming soon

Dimensions – A1000 IP54 Wall Mount

Model CIMR-A□	Dimensions (mm)							Weight (kg) <1>
	Drive size	W	H	D	X	Y	E (optional)	
4A0044	A	400	700	245	270	670	47	31.3 / 34.3
4A0058	B	465	750	285.5	293.5	720	45.5	45 /48
4A0072								50 / 53
4A0088	C	553.5	950	310	425	925	65.5	71 / 74
4A0103								71 / 74
4A0139								81 / 83.5
4A0165								82 / 84.5

<1> Weight is displayed without main switch / with main switch



Marketing Materials and Actions

- Flyer: A1000 IP54 Solutions (EN, DE)
  download and print

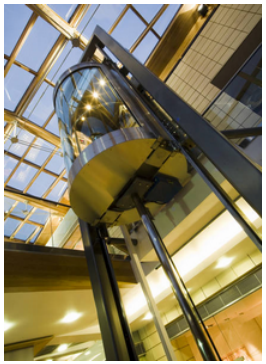
- Documentation: QSG in English, German, Italian, Spanish, French delivered with drive
  (For wall mount type currently English only, Multi language from July/August)

- Web Page Info: * Flyer
  * Quick Start Guide
  * Pictures
  http://www.yaskawa.eu.com/en/products/inverter-series/a1000-premium-drive/ip54.html

References and Applications

References:

- Hydraulic Power Pack for renewal of hydraulic elevators
  →Easy to install all-in-one wall mount solution
  →40 % Reduction of energy consumption
  →Longer lasting oil
  →Lower oil temperature = less cooling
  Installations in London Fire Brigade, Subways, …



- **Diesel Generators**
  → IP54 units mounted directly in the trailer or container system.

Other Applications: Fish farms (feeding), HVAC, Pump, Compressor, …
Retrofit of machines an systems without panel space