



Front View three / single phase

Rear View Three / single phase

AC/AC converter family MS	CO20FR0-11	CO30FR0-11	CO45FR0-31	CO65FR0-31
Product type	PWM microprocessor controlled			
Total Efficiency	87%			
INPUT				
Acceptable voltage (Type ...FR0-11)	230 V _{AC} ± 15 % (L-N / PE)		400 V _{AC} ± 15 % (L1-L2-L3 / PE)	
Acceptable frequency	45 Hz to 66 Hz			
OUTPUT				
Wave form	Sinus			
Output voltage	0÷270 V _{AC} (P + N)		0÷270 V _{AC} (two floating lines)	
Frequency	50 or 60 Hz ± 0,1% (selectable)			
Harmonic distortion	≤ 3%			
Bridge earth to output	not allowed (external galvanic separation required)			
Maximum Power 270 V (P _{Max 100 %})	5,4 kW	8,91 kW	12,15 kW	17,55 kW
Maximum current (I _{Max 100 %})	20 A	30 A	45 A	65 A
Current characteristic	Constant current			
Load regulation time (I _{Max 100 %})	< 6 ms			
Voltage regulation (with constant load)	< 1 % of V _{Max}			
Voltage regulation (at Load variation)	< 5 % of V _{Max}			
Analogue interface (0-10V _{DC})	On board			
PROTECTIONS				
Overload	Yes			
Frequency 50/60Hz	Yes			
RFI Filter	Yes			
Necessary disconnections	Automatic switches (input and output)			
Output and Input terminals	Yes			
CONTROLS				
Switch	ON/OFF Enable, 50 / 60 Hz			
Display, visualization	, output voltage, output current,			
LED	Enable, Inverter ready, over Temperature., Inverter fault, overload, input remote, 50 Hz, 60 Hz			
USEFUL DATA				
General Directives for CE	89/336 EEC "Electromagnetic compatibility" 73/23 EEC "Low voltage until to 1000Vac and 1500Vdc"			
Relative operating humidity (without formation of condensation or ice)	(40°C / 60%) - (25°C / 90%)			
Operative temperature	-10°C ÷ +65°C			
Altitude without reduction of power	1000 mt/s.l.m.			
Audible noise level	40 dBA		50 dBA	
Air volume (circulating)	150 m ³ /h	174 m ³ /h	325 m ³ /h	325 m ³ /h
INPUT CURRENT AND CABLING				
Max Input current (I _{PP})	32 A	48 A	17 A / phase	23 A / phase
input cable wiring suggesting	3 x 6 mm ²	3 x 10 mm ²	4 x 6 mm ²	4 x 10 mm ²
DIMENSIONS AND WEIGHTS				
Height	220 mm (5 U)	220 mm (5 U)	220 mm (5 U)	220 mm (5 U)
Width	440 mm (19")	440 mm (19")	440 mm (19")	440 mm (19")
Depth (including back terminal cover)	520 mm	520 mm	720 mm	720 mm
Weight	30 kg	38 kg	35 kg	35 kg

Note: all specifications are subject to change without notice

