





Uninterruptible Motor drive type UMD C100 Rated Power 2,2 - 30kW @ 3x400V_{AC}

The UMD C100 is a complete system for uninterruptible motor drive for three phase AC-motors. For applications where high availability is required, e.g. oil pumps, fans, sluice gates etc.

Mains and battery supplied Secures operation of AC-motors in critical processes from both the mains and battery supply.

Uninterruptible operation

Transition without interruption between mains and battery supply at full power. Quicker start up compared to a DC motor.

Energy saving

Based on frequency converters with speed control saves energy and battery capacity.

Compact and robust

Designed for easy installation with minimal space requirements in any environment, wall mounted up to 7.5kW and in floor cabinet up to 30kW

High availability

UMD C100 with an AC motor increases system availability and reduces maintenance cost compared to additional standby systems with starter and DC motors.

Operator Friendly

Simple setting and distinct indication of operation mode with advanced control panel.

Uninterruptable motor drive - C100

General

UMD C100 is intended together with an external DC system to provide uninterruptible motor drive. Typical applications are pumps and fans. UMD C100 is made in two designs depending on the DC systems voltage: 110/125VDC or 220VDC.

Enclosure

Type: Cable entrance (wall): Cable entrance (floor): Size: Color: IP-enclosure: Ventilation: Wall or floor cabinet from bottom from bottom or above Se table RAL 7035 light grey IP21 Natural (fans in drive and DC/DC modules)

Environment Ambient temperature:

Humidity: Altitude a.s.l:

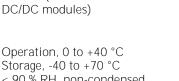
Input DC Input voltage:

Connection: Other:

Input AC (Option) Input voltage: Frequency: Power factor: Connection: Other:



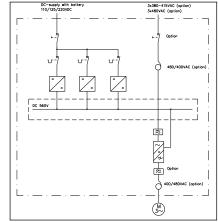
Operator's control panel



< 90 % RH, non-condensed < 1000 m, ≤2000 m by derating

 $\begin{array}{l} 110V_{DC}, \ -15\% \\ 125 \ V_{DC}, \ +16\% \\ 220V_{DC}, \ \pm15\% \\ Terminal \ block \\ See \ table \ 1 \ \& \ 2 \end{array}$

3x380/480V_{AC}, +10%/-15% 45 – 65 Hz > 0.95 at 3x400 V_{AC}, full load Terminal block See table 1 & 2



Single line diagram UMD C100

Output AC

Type: Output voltage, nominal: Connection: Other:

Disconnect switch DC switch: AC switch:

Standards Safety: EMC, immunity: EMC, emission: Battery installations:

Operator interface Control signals:

External indication:

Local control: Local indication:

Options AC supply Thermistor relay Control of stand still heater Bus communication

IP-enclosure Temperature Commissioning Extended approval Frequency converter 3x380/480VAC, +10%/-15% Terminal block See table 1 & 2

In cabinet In cabinet (AC-option)

EN 50178:1997 EN/EC 61800-3:2004 EN/EC 61800-3:2004 EN 50272-2

Start signal External error Ready Running Error Door mounted control panel Door mounted control panel

PROFIBUS, CANopen, DeviceNet, EtherNet/IP, ModBus/TC IP43-IP54 (floor cabinet) 0-50°C by derating

<RV 132GB-

UL (USA) CSA (Canada)

Output data 3x400V _{AC}		Input data DC		Input data AC (option)	Size	Weight	Output data 3x480V _{AC}		Input data DC		Input data AC (option)	Size	Weight	
Motor power	Current	Current		Rated current***	HxWxD		Motor Current power		Current		Rated current***	HxWxD		
		-110	-220		(1)wall, (2)floor				-110	-220		(1) wall, (2) floor		
(kW)	(A)	(A)*	(A)**	(A)	(mm)	(kg)	(kW/Hp)	(A)	(A)*	(A)**	(A)	(mm)	(kg)	
2,2	5	33	17	7,8	1120x400x400 (1)	37	2,2/3	4,4	46	23	7	2100x700x600 (2)	220	
3	7	48	24	9,8	1120x400x400 (1)	37	3,7/5	7,5	71	36	11	2100x700x600 (2)	250	
4	8,7	60	30	12	1120x400x400 (1)	37	5,5/7,5	10	96	48	15	2100x700x600 (2)	270	
5,5	12	84	42	15	1120x400x400 (1)	44	7,5/10	15	140	70	22	2100x700x600 (2)	310	
7,5	16	114	57	20	1120x400x400 (1)	44	11/15	19,5	177	89	28	2100x700x600 (2)	330	
11	24	170	85	20	2100x700x600 (2)	210	15/20	25	229	115	36	2100x700x600 (2)	370	
15	31	224	112	27	2100x700x600 (2)	220	18,5/25	32	283	142	44	2100x700x600 (2)	400	
18,5	40	289	145	33	2100x700x600 (2)	225	22/30	37	330	165	51	2100x700x600 (2)	420	
22	46	336	168	39	2100x700x600 (2)	230	30/40	55	443	221	67	2100x1500x600 (2)	680	
30	54,7	395	198	55	2100x700x600 (2)	250	*Max @t 93.5Vpc, ** Max @ 187Vpc, ***@ 3x480Vac							
	*Max @ 93,5V _{DC} ** Max @ 187V _{DC} ***@ 3x400V _{AC}													

Table 1, Rated power and cabinet size for 3x400V_{AC} motor drive.

Table 2, Rated power and cabinet size for 3x480V_{AC} motor drive.



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