

Uninterruptable motor drive type UMD S400



UMD S400 is a complete system for uninterruptible motor drive where the transition from mains drive to battery drive is automatic. UMD S400 is built on well-tried techniques to provide maximum availability and flexibility. UMD S400 is a module-built system that both saves space and is simple to install. Examples of drives are turbine systems, sluice gates, seepage water pumps, cooling pumps, fans and valves.

- **UMD guarantees the operation of AC-motors** in critical processes by uninterruptible operation from batteries and can be expanded to several drive units for maximum availability.
- **Uninterruptible transition with full effect** between mains drive and battery drive. Quicker start compared to DC-motors
- **Higher availability and reduced maintenance cost** with UMD and AC-motor compared to extra standby system with starter and DC-motor.
- **Increased efficiency** in the production process by speed control with frequency converters from leading manufacturers..
- **Simple installation** because UMD S400 is a complete factory-tested unit. We help you with the dimensioning.
- **Safe operation and high availability** We help you with commissioning and service and provide training in the management and maintenance.

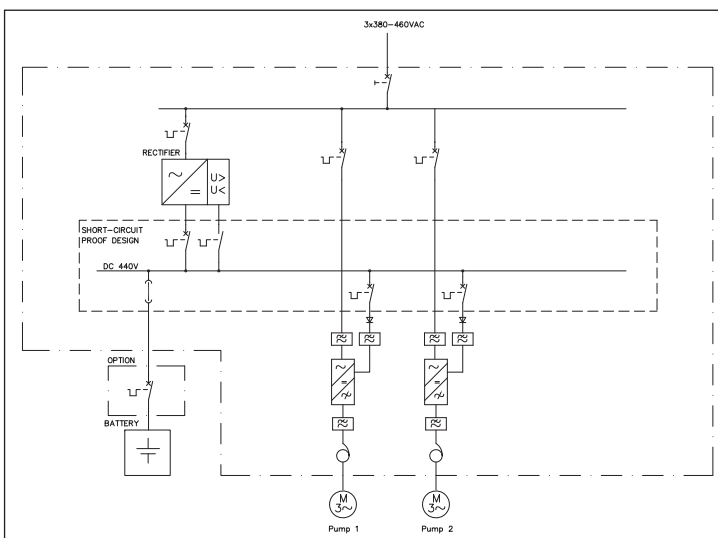
UMD S400 Uninterruptible motor drive

Technical data, general

UMD S400 is a system intended for the uninterruptible operation of motors. It is based on frequency converters that can be powered not only from the existing mains drive but also from batteries. The system consists of batteries, a battery centre and UMD cabinet. The UMD cabinet in its turn can, depending on requirements, contain; rectifier, frequency converter for motor drive, frequency converter for UPS, DC/DC-converter, AC and DC distribution, transformers and filters, motor protection and UPS-distribution

Motor power (typical) 3x400VAC/50Hz		Rated output current	Cabinet size, height 2200 mm		
			width		depth
			singel drive	dual drive	
kW	Hp	A	mm	mm	mm
3	4	6,3	840	840	654
4	5	8,2	840	840	654
5,5	7,5	10,9	840	840	654
7,5	10	14,5	840	840	654
11	15	21,1	840	840	854
15	20	28,6	840	1540	854
18,5	25	34	840	1540	854
22	30	41	840	1540	854
30	40	54,7	840	1540	854
37	50	66,4	840	1540	854
45	60	80,4	1540	2240	854
55	75	94	1540	2240	854
75	100	136	1540	2240	854
90	125	158	1540	2240	854
110	150	192	Contact Kraftelektronik		
132	179	228			
160	217	273			
200	272	341			

Table 1, Rated power for drive module and cabinet size with single or dual drives. Contact us for layout with larger or multiple drives.



Single diagram UMD S400 - example double operation of pump.

Rated power at constant load (kW)		Rated capacity	Battery sand			
			Dimensions (mm)			weight
5 min	30 min	Ah	bredd	djup	höjd	kg
11	4	15	Built in cabinet			238
18	6	24	900	500	1690	396
24	11	35	600	715	1704	526
33	15	50	1200	360	1746	661
40	19	60	1200	360	1779	831
59	27	90	1050	500	1786	1073
61	29	105	1200	715	1745	1286
72	36	125	1200	715	1799	1703
84	42	155	2400	715	1799	1915

Table 2, Battery size for floor installation with reserve time 5 min and 30 min. Other battery sizes and types are quoted on request.

Technical data, general

Input AC

Input voltage 3x380-415 VAC, 3x440-480/600VAC 50-60Hz
 Connection Terminal block
 Other See table1

Output AC

Frequency converter with sine filter and transformer output
 Utspänning nom 3x400VAC
 Connection Terminal block
 Other See table1

Input DC

Input voltage 440 VDC +/-15%
 Connection Terminal block

Options

UPS-output, 3x400VAC/50Hz
 UPS-output, 24 VDC utgång
 Output for engine brake
 IP-enclosure, IP43
 Commissioning
 Battery braker

Standards

Safety EN 50178:1997
 EMC, immunity EN/EC 61800-3:2004
 EMC, emission EN/EC 61800-3:2004
 Battery installations EN 50272-2