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NMD

Three-phase direct online power supplies

Two central power modules are available to power SV-M or COMPAX-M drives, with continuous ratings of 10 kW (NMD10) and 20 kW (NMD20). These supplies operate from a 3-phase AC input up to 480V. The DC output is connected to one or more servo drives by jumper cables fitted behind a removable front plate. A separate 24 VDC supply is required to power the control circuits, permitting communication and diagnostic facilities to be retained should the main power supply fail.

Energy regenerated during deceleration will be stored in the power supply capacitors unless the DC bus voltage exceeds a preset level, in which case a ballast resistor is automatically switched in to dissipate the surplus energy. The high-power NMD20 module may be used in conjunction with an external ballast resistor to handle high regenerated energy levels.

Power Supply Characteristics

AC supply voltage	100-480V +10% -15%
Supply frequency	50-60 Hz
Safety specification	VDE0160
Control voltage	+24 VDC ±10%, ripple <1V p-p
Control current	See ratings
Standby contact rating	0.5 A, 125V, 30 W
Overheating protection	Heatsink temperature >85°C
Undervoltage protection	DC output <80V
Overvoltage protection	Braking resistor switched in at preset level
Phase failure monitoring	Red LED flashes on phase failure, system disabled after 40s

Power Supply Ratings

Model No.	Continuous Power	Peak (<3s) Power	AC Supply Voltage	DC Output Voltage	AC Supply Protection*
NMD10	10kW	20kW	480V 3ø	680V	16A
NMD20	20kW	40kW	480V 3ø	680V	35A

* External cutout or equivalent cartridge fuse, supplied by customer

Power Supply Braking & Ballast Ratings

Model No.	Continuous Power Dissipation	Intermittent ratings			DC Bus Capacity	Storable Energy
		Power	Duration	Cooling Time		
NMD10	120W*	4.5kW	<1s 17kW	>50s <50ms	1100µF >10s	173 Ws
NMD20	120W*	3kW	<1s 9.5kW	>50s <50ms	1650µF >10s	260 Ws
BMR4/1†	570W	37kW	<0.4s	>120s	-	-
BMR4/2†	740W	37kW	<0.6s	>120s	-	-
BMR4/3†	1.5kW	37kW	<1.2s	>120s	-	-

* Increased to 250W with fan option †External ballast used with NMD20

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