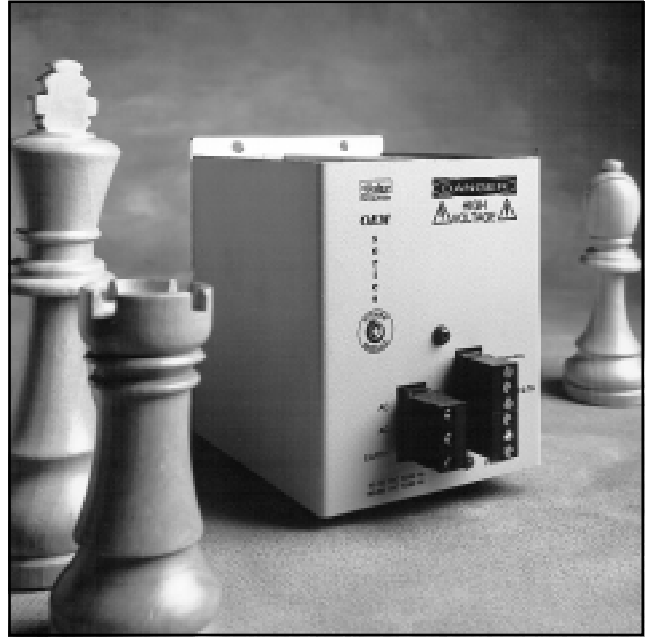


Optional power module for OEM series drives

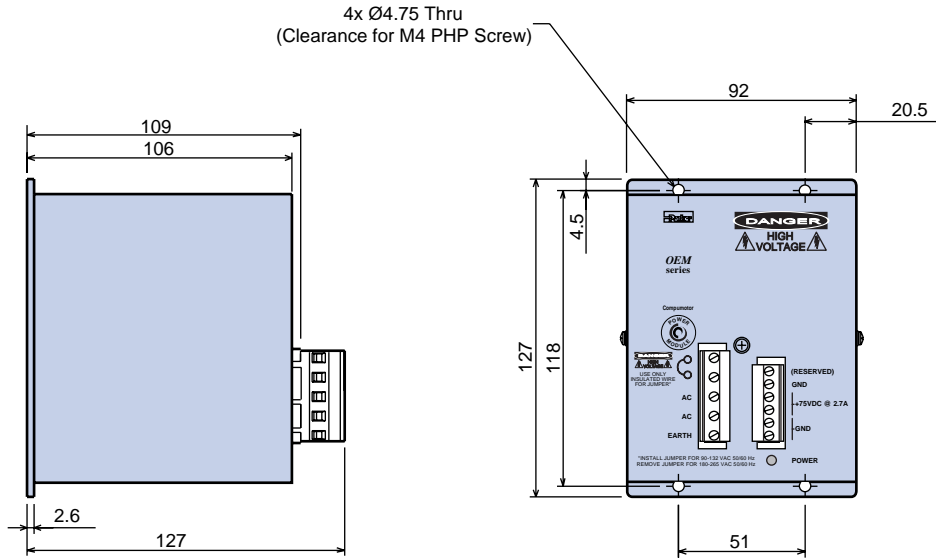
The OEM300 is a direct-on-line power module which can provide power to a number of OEM series servo drives. It operates from supplies in either the 120V or 230V AC range and occupies the same space as two OEM drives. It is rated at 200 watts continuous and 300 watts peak. A power dump circuit is included to dissipate surplus regenerated energy during deceleration. Full short circuit, overvoltage and overtemperature protection is included.



OEM300 Specifications

Parameter	Value
AC Inputs	
Low Range: jumper installed	90 VAC to 132 VAC, 50-60 Hz
High Range: jumper removed	180 VAC to 265 VAC, 50-60 Hz
Prohibited Range:	132 VAC to 180 VAC
Input Filter	Line filter on the AC input to minimise noise energy returned to the power line
Inrush Current	The power module has current limiter which limits the inrush current to 40A
DC Outputs	
Voltage	75 VDC $\pm 5\%$ (fixed; not adjustable)
Current	2.7A at 75 VDC continuous current; 4.0A at 75 VDC peak current
Power	200 W continuous; 300 W peak—30 sec max at peak, 10% duty cycle at max (Example: 30 sec at 300 W, followed by a minimum of 270 sec at 200 W or less)
Grounds	Output grounds are internally connected to each other, to the AC input ground (labelled EARTH), and to the cover of the OEM300
Voltage Regulation	$\pm 5\%$ max
Efficiency	A minimum of 80% efficiency at full output load
Over-temperature Protection	Will shut down if heatplate reaches 60°C. This is a latched condition. To resume normal operations, turn off AC power, cool the power module below 30°C and then turn on AC power.
Power Dump	This circuit can dissipate excess energy from load regeneration conditions
Threshold Voltage:	85 VDC ± 3 VDC
Average Power Dissipation:	8 watts
Peak Power Dissipation:	722 watts
Equivalent Energy:	Two 83–135 motors, each turning loads with 10:1 rotor inertia at 50 rps, simultaneously decelerating to a full stop in 0.3 sec
Short-Circuit Protection	Powers down the 75 VDC output if there is a short circuit in output cables or drives. This is a latched condition. Cycle AC power to resume normal operations
If short circuit 9 amps	Response time is immediate (output shuts down)
If short circuit 6 amps	Responds in 3 sec
Overvoltage Protection	The output overvoltage protection circuit shuts down the power module if the power dump stays on continuously for more than $\frac{1}{2}$ second. This is a latched condition. Correct the problem, then cycle AC power to resume normal operation.
Operating Temperatures	
Max Ambient: Still Air	35°C with a 200 W load; 40°C with a 170 W load
Max Ambient: Moving Air	45°C with a 200 W load; 50°C with a 170 W load
Max Heatplate Temperature	60°C
Min Ambient Temperature	0°C

OEM300 Power Module Dimensions



OEM670 and OEM675 Series Dimensions

