

Title:	Unidrive SPM output sharing chokes		
Product:	Unidrive SP	Issue Date:	06-July-2005
Variant:	N/A	Date Codes:	
Category:	General	Manuals affected:	No
Issued By:	Jon Atkinson	Priority:	Normal

SUMMARY

This Technical bulletin supersedes T050607 changing the specification for parts being sourced locally.

Until the OTL range of output sharing inductors is finalised the following inductors should be used with the different ratings of SPM module.

For ordering locally

SPMD1401 - 1403 – same specification as for Unidrive classic size 5 sharing choke

SPMD1404 - specification below

For ordering from Unit 79

Various combinations of existing parts – see the table below.

MORE INFORMATION

The OTL range of output sharing inductors is not yet available for the SPM range of drives. To allow projects to proceed in the short term the chokes detailed overleaf, which are already available from unit 79, should be used.

The following specification can be used to source chokes locally :

SPMD1401, SPMD1402 and the SPMD1403 Output Choke Specification

NOTE: This choke is as per the Unidrive Classic Size 5 sharing choke.

Min Inductance: 40uH

Frequency range: 0Hz to maximum motor frequency

Current rating: 300A

Overload: 120% rated current for 1 minute in a 10-minute period

Harmonic current: 10% at 3kHz

Saturation level: 200% rated current

Ambient temperature; 55 degrees C max

Temp rise: 100 degrees C max

Cooling: Convection

Insulation class: H (180 degrees C) or better

High-potential test Winding to core: 2.5kV at 50/60 Hz

High-potential test Winding to windings: 2.5kV at 50/60 Hz

SPMD1404 Output Choke Specification

Min Inductance: 35uH

Frequency range: 0Hz to maximum motor frequency

Current rating: 350A

Overload: 120% rated current for 1 minute in a 10-minute period

Harmonic current: 10% at 3kHz

Saturation level: 200% rated current

Ambient temperature; 55 degrees C max

Temp rise: 100 degrees C max

Cooling: Convection

Insulation class: H (180 degrees C) or better

High-potential test Winding to core: 2.5kV at 50/60 Hz

High-potential test Winding to windings: 2.5kV at 50/60 Hz

<i>New name</i>	SPMD1401	SPMD1402	SPMD1403	SPMD1404	SPMD1601	SPMD1602
<i>Motor Current rating normal duty (A)</i>	202	236	290	350	125	125
<i>Motor Power rating normal duty (kW)</i>	110	132	160	200	90	90
<i>Interim solution</i>	4401-0176	4401-0176	4401-0175	4401-0175	4401-0173	4401-0173
Number in parallel	1	1	2	2	1	1
Lac (uH) =	100	100	67.5	67.5	160	160
Thermal current rating =	300	300	404	404	156	156