

3 PRODUCT CODE

Single Phase Convertors Types 540/541

All members of the single phase convertor range can be fully specified using a 18 digit numerical order code. This Product Code appears as the "Model No." on the convertor rating label, an example of which is shown overleaf.

A rating label is attached to each convertor - on the inner surface of the right hand side panel, or on the top cross-member - always check that all specified parameters are correct.

The 18 digits are split into 8 groups or blocks. The function and number of digits in each block is given below:-

<u>Block No.</u>	<u>No. of Digits</u>	<u>Function</u>
1	3	Basic product
2	3	Output current
3	1	Input power voltage
4	1	Field convertor configuration
5	1	Input auxiliary supply voltage
6	3	Speed feedback calibration
7	4	Option switch settings
8	2	Special options

The 8 blocks are defined as follows:-

BLOCK 1: 3 digits identifying the basic product.

540 single phase, 4 Quadrant. Regenerative Convertor.

541 single phase, 2 Quadrant. Non-regenerative Convertor.

BLOCK 2: 3 digits identifying the DC output current rating.

The digits in this block represent a number between 00.0 and 99.9. To form the code from the numbers, the decimal point is suppressed and leading zeros are added where necessary.

Examples:	23.5 AMPERES	=	CODE 235
	8.6 AMPERES	=	08.6A
			CODE 086

Conversely:	CODE 047	=	4.7 AMPERES
	CODE 124	=	12.4 AMPERES

BLOCK 3: 1 Digit identifying the 3-phase AC power voltage.

0	1	2	3	4	5	6	7	8	9
110v	115v		220v	240v	380v	415v	440v	460v	480v

BLOCK 4: 1 Digit identifying field supply configuration.

- 0 -
- 1 -
- 2 - Internally supplied full-wave rectifier.
- 3 - Internally supplied half-wave rectifier.
- 4 -
- 5 - Externally supplied full-wave rectifier.
- 6 - Externally supplied half-wave rectifier.

BLOCK 5: 1 Digit identifying the control supply voltage (AC).

0	1	2	3	4
110v	115v		220v	240v

BLOCK 6: 3 Digits identifying the tachogenerator feedback voltage at full speed.

The three digits in this block form a number between 010 and 999 which represents the actual tacho feedback voltage, rounded to the nearest whole number and with leading zeros added where necessary.

For example:- 123 VOLTS = 123
 45.6 VOLTS = 046

or conversely:- CODE 090 = 90 VOLTS ± 0.5v
 CODE 180 = 180 VOLTS ± 0.5 v

BLOCK 7: 4 Binary digits identifying the setting of the four internal option switches.

Each digit defines the setting of one switch and can take the value 0 (=OFF) or 1(=ON) as follows:-

First digit, switch 1:

- 0 = OFF - Armature current meter reads modulus.
- 1 = ON - Armature current meter reads Bipolar (+ and -).

Second digit, switch 2:

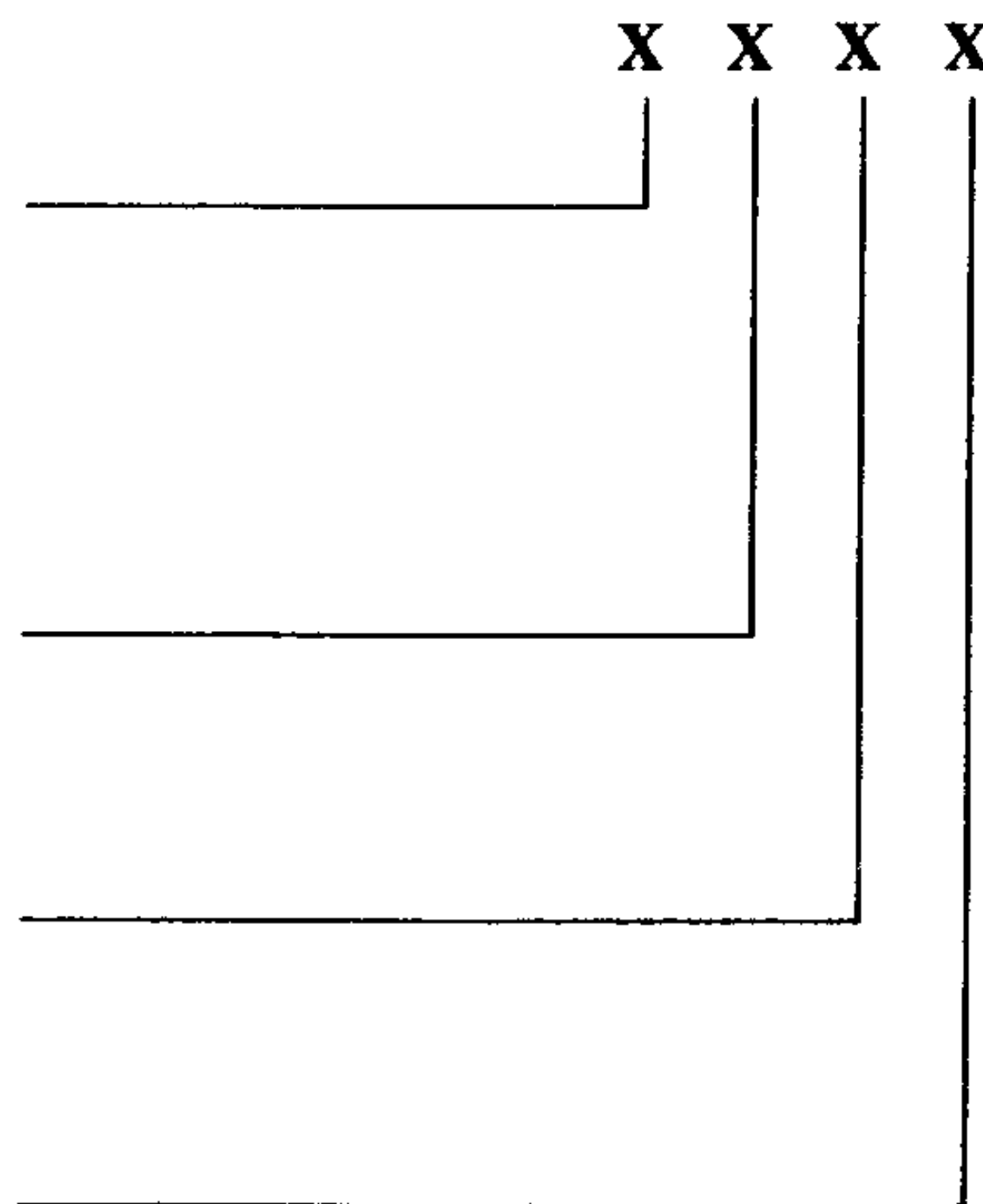
- 0 = OFF - Standstill logic disabled.
- 1 = ON - Standstill logic enabled.

Third digit, switch 3:

- 0 = OFF - Setpoint ramp connected.
- 1 = ON - Setpoint ramp disconnected.

Fourth digit, switch 4:

- 0 = OFF - Setpoint ramp rate 1 - 20 seconds.
- 1 = ON - Setpoint ramp rate 0.1 - 2 seconds.



BLOCK 8: 2 Digits identifying special options.

- 00 - No special options
- 01 - 98 - Documented special options
- 99 - Undocumented special options; specify requirement