TBF-R

Product Data Sheet

TBF60/5R

Resolver-feedback servo amplifier

NOMINAL VOLTAGE	DC LINK RANGE	NOMINAL CURRENT, PEAK VALUE	PULSE CURRENT, PEAK VALUE
60 V	**25 to 85 V DC**	**5 A**	**15 A**

Parker Compumotor TBF60/5R is a four-quadrant PWM servo amplifier for electronically commutated brushless motors. The TBF-R design uses resolver feedback and an internal current loop, with configuration for velocity control or direct current control.

01 TECHNICAL DATA

Nominal voltage	60 V
DC link range	25 to 85 V DC
Nominal current, peak value	5 A
Pulse current, peak value	15 A
Recommended transformer voltage	54 V AC
Efficiency	93%
PWM clock	9.5 kHz
Current ripple frequency	19 kHz
Current-loop bandwidth	1 kHz
Minimum load inductance	1.2 mH at nominal current

02 ADDITIONAL PRODUCT DATA

Command input	±10 V differential
Command input resistance	20 kΩ
Resolver excitation	7 V RMS, 10 kHz
Encoder signal format	RS422
Current monitor scaling	10 V corresponds to 15 A

03 PRODUCT FUNCTION

The amplifier has a nominal 60 V class and a 25-85 V DC intermediate-circuit range. Nominal and pulse currents are specified as peak values of 5 A and 15 A, respectively. A differential ±10 V command input, 9.5 kHz PWM clock and RS422 encoder outputs support integration with an external motion controller.

04 SYSTEM COMPATIBILITY

Maintain the DC link between 25 and 85 V and use the recommended 54 V AC transformer arrangement where applicable. The 5 A nominal and 15 A pulse figures are peak current values; account for the manual ventilation and added-filtering requirements at higher effective or pulse currents.

05 DOCUMENT BASIS

Parker Compumotor manufacturer documentation. Selected source pages: 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, 17, 18.

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