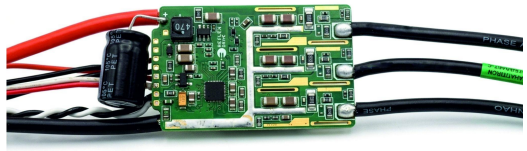
Reflex Drive

RD A-Series ESC 40A (FOC)

MADE IN INDIA



Field Oriented Control

Over Current Protection

Startup Protection

Over Temperature Protection

Stuck Rotor Protection

Email: sales@reflexdrive.in Sales: +91 9151118036 www.reflexdrive.in Lucknow, Hyderabad

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Product Description:

The **RD A-Series ESC 40A (FOC)** is an advanced Electronic Speed Controller (ESC) designed for high-performance applications. Made in India, this model significantly enhances thermal and current handling capabilities. Housed in a sleek and durable aluminium enclosure, the ESC offers excellent heat dissipation and protection against harsh environmental conditions.

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ESC Specifications

S. No.	Parameter	Requirement	Remark
1	Product name	RD A-Series ESC 40A (FOC)	-
2	Input Voltage (S)	4S~8S LiPo	-
3	Continuous output current (A)	20 A (under air flow condition)	-
4	Peak current (<30 s)	40 A (under air flow condition for 30 sec)	-
5	BEC output voltage	No	-
6	Operating ambient temperature (℃)	(-20 ℃) ~ (+65 ℃)	±5 ℃
7	Operating humidity (%)	15% ~ 85% RH	±5% RH
8	Storage temperature (℃)	(-40 ℃) ~ (+65 ℃)	±5 ℃
9	Preservation humidity (%)	15% ~ 85% RH	±5% RH
10	Standby power	≤ 60 mA	-
11	PWM range	1050 us ~ 1950 us	-
12	Recommended PWM frequency	50 ~ 450 Hz	-
13	Driving method	PWM & CAN	-
14	Telemetry	CAN only	-
15	Opto-isolation	NA	-

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Protection / Warnings

S No.	List of Protection	Remarks
1	Over Temperature warning (OTW)	110 ℃
2	Stuck Rotor at start-up	Yes
3	Bad Motor Phase	Yes
4	Over Voltage Protection (OVP)	36 V
5	Over Current Protection (OCP)	Yes
6	Signal Loss	Continuous beep (2-second interval)
7	Under Voltage Protection (UVP)	12 V
8	Start-up Protection	Yes
9	Throttle not reset to zero	Continuous beep (rapid beeping)

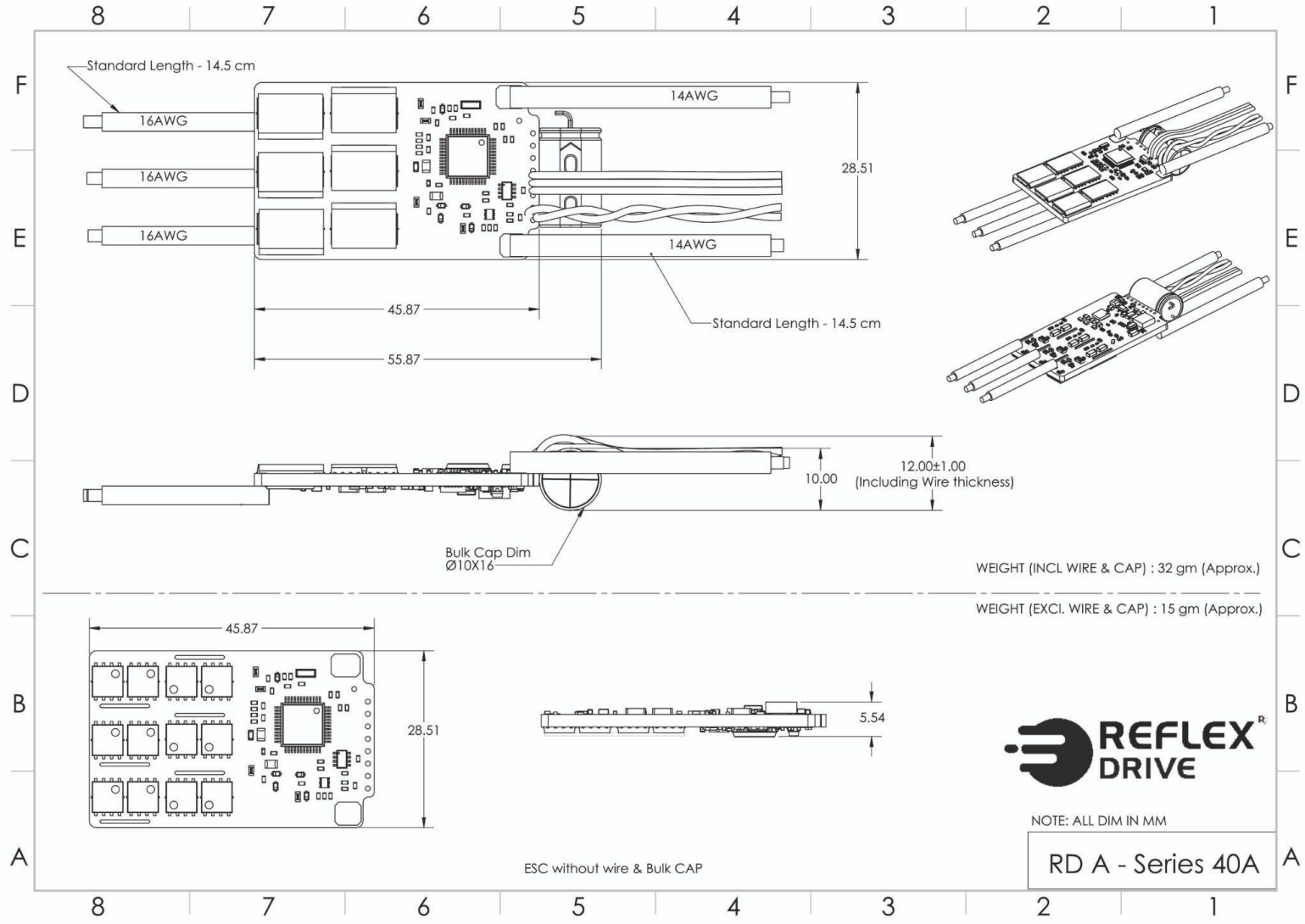
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Main Materials / Part Specification

S. No.	Item	Wire colors / Size	Length	Remarks
1	Input cables	Silicone wires - red/black - 14 AWG	14.5 cm	±1 cm
2	Output cables	Silicone wires - black - 16 AWG	14.5 cm	±1 cm
3	Signal wires	Silicone wires - black, white (2P)	20 cm	±1 cm
4	CAN wires	Silicone wires - black, white, red (3P)	20 cm	±1 cm

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Technical Drawing



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