



Quinder HUB motor specifications:

Name: Quinder 8" 48V DC Brushless HUB motor

Product number: 10101025

EAN: 7448129356364

Development purpose use: Agricultural purposes

!! Never switch the + pole and the – pole!!

Switching the + pole and the – pole will damage the HALL sensors in the motor

DaviLot
Zonnehorst 5
7207 BT Zutphen
+31 575 513 503
www.davilot.nl |
www.davilot.de

Quinder E-Drives are professional agricultural electric drives systems.

Quinder e-drives is an exclusive brand from DaviLot.

General specs

Motor voltage: 48V DC

Motor rated power: 550Watt

Motor type: Brushless S1 working conditions

Slot number: 18

Number of poles: 2P=20

Speed signal: 6 A/circle

Speed ratio: 5:1

Self lubricating inner-gear

Motor temperature

Normal temperature, motor gives 5V the signal.

Warning temperature is at 105 degrees Celsius, signal is 1.09V.

Switch-off temperature is at 110 degrees Celcius, the signal is 0.68V.

Power specs

NON-load specs: RPM: 95 +/- 10RPM Current: 1.0A or less	Rated loading: RPM: 75 +/- 10RPM Current: 9.0A or less	Max.Output: RPM: 55 +/- 10 Current: 20A or less
--	---	--

!!Attention !!

DaviLot assumes that the person installing the Quinder e-drives parts has profound knowledge about electrical and mechanical constructions.

Bad connectors, unsafe constructions and not following quidelines can lead to physical injuries, fire or electric shocks.

DaviLot will never be responsible or reliable for any damage that comes from bad connectors, unsafe constructions and not following guidelines.

Warranty 1 year, warranty expires if the motor has not been handled conform the guidelines in this sheet.

[Operational conditions](#)

Operational conditions: -20 degrees to +40 degrees

[Cable specs](#)

Cable type: 3 x 2.5mm² + 8 x 0.14mm²

Cable length: 200mm

[Rim](#)

Rim: 8"

Fork width for mounting: 138mm

Fork steel plate for mounting: min. 6mm steel

Mounting hole: max 10.2mm

Rim surface treatment: black coating

Tyre: Agricultural 4.00/4.80-8 Chevron Tractor tyre with innertube

Construction level: IP66 (do not put motor under water)

Max load: 500Kg

[Storage](#)

Do not store in direct sunlight or below -20 degrees or above 60 degrees

[Warranty](#)

Warranty: 1 Year

Life expectancy: 30.000Km

Connector

Description 10-wire cable

Large pins:

Green - A 3 Phase of Motor

Yellow - B 3 Phase of motor

Blue - C 3 Phase of motor

Small pins:

Red - 5Volt

Black - ground

Yellow – 3 phase of Hall

48V brushless	—	1	(BK)	2	48(48V-)		0V	
		2	(R)	2	(48V+)		48V	
technical requirements: 1、current-limiting: 18±1A, undervoltage: 41±1V. 2、Cable from one end, with housing. 3、Eight sets of output lines, outlet length including connectors 4、Program number: NJC.BIN. 5、Match for 8" 555W hub motor, tire outside dimension 16" 6、Two-in-one combination switch control forward, maximum speed 6KM/H, backward, maximum speed 6KM/H, horn switch control horn ringing 7: Temperature control alarm: motor internal temperature below 90° does not ring, 90° to 110° ring 0.5 seconds stop 2 seconds, more than 110° ring 1 second stop 1 second, and the motor stops working 8: Low voltage alarm: power is too low ring 0.2 seconds stop 1 second 9. Deceleration thumb: control vehicle electronic brake strength, the higher the thumb voltage, the stronger the strength 10: Release the electronic brake handle: When the motor is in the state of electronic brake, press the brake handle to release the electronic brake 11: Equipped with 124DX integrated instrument, acceleration dial from 1.1V to 3.8V, low speed from 0KM/H to 2KM/H, medium speed from 0KM/H to 4KM/H, high speed from 0KM/H to 6KM/H. 12. The temperature signal is collected by the temperature sensor 13: The speed measurement signal is collected by Hall signal 14. 6 power tubes, operating voltage range 41V~60V	—	1	(B)	2	Motor Phase A	0V~24V		
		2	(G)	2	Motor Phase B	0V~24V		
		3	黄(Y)	2	Motor Phase C	0V~24V		
		4	红(R)	0, 2	Motor-Hall Sensor+	4. 3V		
		5	黑(BK)	0, 2	Motor-Hall Sensor-	0V		
		6	蓝(B)	0, 2	Motor-Hall Sensor Signal:A	0V OR 5V		
		7	绿(G)	0, 2	Motor-Hall Sensor Signal:B	0V OR 5V		
		8	黄(Y)	0, 2	Motor-Hall Sensor Signal:B	0V OR 5V		
		9	(White)	0, 2	speed tachometer	0V OR 5V		
		10	(Purple)	0, 2	temperature controller singal	4. 8V~0. 67V		
Green - 3 phase of Hall	—	1	(Y)	0, 3	(Protocol RX)	3. 9V		
		2	绿(G)	0, 3	TX(Protocol TX)	4. 3V		
		3	棕(BR)	0, 3	(48V+)	48V		
		4	橙(Orange)	0, 3	Key	48V		
		5	黑(BK)	0, 3	电源负	0V		
		6	白(White)	0, 3	Throttle-Hall -	0V		
		7	蓝(B)	0, 3	(Throttle signal)	0. 8V~3. 5V		
		8	红(R)	0, 3	Throttle-Hall +	4. 3V		
Blue - 3 phase of Hall	—	1	红(R)	0, 3	Reverse signal +	5V		
		2	黄(Y)	0, 3	Reverse signal -	0V		
		3	蓝(B)	0, 3	Horn switch in	48V		
		4	绿(G)	0, 3	Horn switch out	0V OR 48V		
White – Hall of motor speed	—	1	红(R)	0, 3	Slow down decelerate-Hall +	4. 3V		
		2	黑(BK)	0, 3	Slow down decelerate-Hall -	0V		
		3	绿(G)	0, 3	Slow down decelerate-signal	0. 8V~3. 5V		
Purple – Temperature warning	—	1	灰(Gray)	0, 3	ABS Enable - control Signal +	5V		
		2	黑(BK)	0, 3	ABS Enable - control Signal -	0V		
—	—	1	绿(G)	0, 3	Horn +	0V OR 48V		
		2	黑(BK)	0, 3	Horn -	0V		
—	—	1	红(R)	0, 3	MCU POWER +	5V		
		2	黄(Y)	0, 3	MCU TDO	5V		
		3	绿(G)	0, 3	MCU TMS	0V		
		4	蓝(B)	0, 3	MCU TDI	0V~2V		
		5	白(White)	0, 3	MCU RST	5V		
		6	黑(BK)	0, 3	MCU POWER -	0V		
(No.)	(Sn.)	(Color)	(Diameter)	(Function)		Signal Voltage	Shape	

Motor specs

	V	A	W	N.m	rpm	W	%	S
1	48.06	0.595	28.99	0.04	95.6	0.364	1.3	0.000
2	48.06	0.676	32.49	0.24	95.5	2.425	7.5	2.304
3	48.06	0.754	36.25	0.83	95.0	8.363	23.1	4.409
4	48.06	0.944	45.37	1.98	95.1	19.82	43.7	5.110
5	48.06	1.198	57.57	3.35	94.8	33.23	57.7	7.813
6	48.06	1.536	73.81	4.84	93.9	47.62	64.5	9.516
7	48.06	1.995	94.91	7.22	92.4	69.89	73.6	11.22
8	48.06	2.407	115.7	9.31	91.4	89.11	77.0	12.92
9	48.07	3.148	151.3	12.92	89.5	117.3	77.5	14.63
10	48.06	3.858	185.4	15.24	88.0	140.4	75.7	16.33
11	48.06	4.311	207.2	17.86	86.8	152.3	78.4	18.03
12	48.07	4.814	231.4	21.74	84.8	193.0	83.4	19.74
13	48.06	5.431	261.0	24.74	83.4	216.0	82.8	21.44
14	48.06	6.323	303.9	29.16	81.1	247.6	81.5	23.14
15	48.06	7.006	336.7	32.67	79.5	271.9	80.5	24.84
16	48.06	7.605	365.5	36.10	78.1	295.2	80.8	26.55
17	48.06	8.618	414.2	40.56	75.9	320.7	77.4	28.25
18	48.06	9.303	451.7	44.09	74.4	343.5	76.0	29.95
19	48.06	10.06	483.7	48.82	72.5	370.6	76.6	31.66
20	48.06	10.99	528.3	52.34	70.8	388.0	73.4	33.35
21	48.06	11.76	565.1	56.06	69.6	408.5	72.3	35.06
22	48.07	12.54	602.8	60.02	67.6	424.8	70.5	36.77
23	48.06	13.30	639.1	63.54	65.4	441.8	69.1	38.47
24	48.06	14.02	674.1	66.48	63.8	451.0	66.9	40.17
25	48.06	14.57	700.2	70.05	63.9	468.6	66.9	41.88
26	48.06	14.70	706.7	72.19	62.7	473.9	67.1	43.58
27	48.06	15.19	730.1	73.54	61.9	476.6	65.3	45.28
28	48.07	15.74	756.7	75.43	61.4	484.9	64.1	46.99
29	48.07	16.10	774.1	77.24	60.4	488.5	63.1	48.69
30	48.06	16.31	783.8	79.02	59.7	493.9	63.0	50.39
31	48.06	16.97	815.8	80.46	58.9	496.2	60.8	52.09
32	48.07	17.26	829.8	82.04	58.3	500.7	60.3	53.80
33	48.07	17.37	835.0	82.76	57.8	500.8	60.0	55.50
34	48.07	17.81	856.3	83.84	57.1	501.2	58.5	57.20
35	48.07	18.36	882.5	86.59	56.6	513.1	58.1	58.91
36	48.07	18.33	881.3	87.02	56.0	513.7	58.3	59.61
37	48.06	18.71	899.4	88.11	55.3	510.2	56.7	62.31
38	48.06	18.54	916.0	88.78	54.7	508.5	56.7	64.03
39	48.06	19.26	925.9	89.64	53.7	504.0	54.4	65.72
40	48.06	19.24	924.7	91.70	53.1	509.8	55.1	67.40
41	48.07	19.65	944.7	91.70	52.3	502.1	53.2	69.13
42	48.06	19.69	946.3	94.11	51.8	510.4	53.9	70.83
43	48.07	20.33	978.2	93.22	51.2	510.4	52.2	72.33
44	48.07	20.27	974.5	96.03	51.4	508.7	52.0	74.24
45	48.07	20.86	1002	97.42	49.8	508.0	50.7	75.91