

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

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 Celsius, the signal is 0.68V.

Power specs

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

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Quinder E-Drives are professional agricultural electric drives systems.

Quinder e-drives is an exclusive brand from

DaviLot.

!!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 guidelines 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	
<p>technical requirements:</p> <p>1、current-limiting: 18±1A, undervoltage: 41±1V.</p> <p>2、Cable from one end, with housing.</p> <p>3、Eight sets of output lines, outlet length including connectors</p> <p>4、Program number: NJC.BIN.</p> <p>5、Match for 8" 555W hub motor, tire outside dimension 16"</p> <p>6、Two-in-one combination switch control forward, maximum speed 6KM/H, backward, maximum speed 6KM/H, horn switch control horn ringing</p> <p>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</p> <p>8: Low voltage alarm: power is too low ring 0.2 seconds stop 1 second</p> <p>9. Deceleration thumb: control vehicle electronic brake strength, the higher the thumb voltage, the stronger the strength</p> <p>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</p> <p>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.</p> <p>12、The temperature signal is collected by the temperature sensor</p> <p>13: The speed measurement signal is collected by Hall signal</p> <p>14. 6 power tubes, operating voltage range 41V-60V</p> <p>Green - 3 phase of Hall</p> <p>Blue - 3 phase of Hall</p> <p>White – Hall of motor speed</p> <p>Purple – Temperature warning</p>	二	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 signal		4. 8V-0. 67V	
	三	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	
	四	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	
	五	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	
	六	1	灰(Gray)	0, 3	ABS Enable - control Signal +		5V	
		2	黑(BK)	0, 3	ABS Enable - control Signal -		0V	
	七	1	绿(G)	0, 3	Horn +		0V OR 48V	
		2	黑(BK)	0, 3	Horn -		0V	
	八	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)	(Diame-ter)	(Function)		Signal Voltage	Shape

Motor specs

	V	A	W	N.m	rpm	W	%	S
1	48.06	0.595	28.59	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	2.704
3	48.06	0.754	36.25	0.83	95.0	8.363	23.1	4.407
4	48.06	0.944	45.37	1.98	95.4	19.82	43.7	5.110
5	48.06	1.198	57.57	3.35	94.8	33.23	57.7	7.513
6	48.06	1.536	73.81	4.84	93.9	47.62	64.5	9.516
7	48.06	1.975	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	12.52	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	162.3	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	80.8	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	9.308	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	33.36
21	48.06	11.76	565.1	56.06	69.0	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	66.4	441.8	69.1	38.47
24	48.06	14.02	674.1	66.48	64.8	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	475.9	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	87.62	56.0	513.7	58.3	60.61
37	48.06	18.71	899.4	88.11	55.3	510.2	56.7	62.31
38	48.06	18.64	896.0	88.78	54.7	508.5	56.7	64.02
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	67.42
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	95.22	51.2	510.4	52.2	72.53
44	48.07	20.27	974.5	96.03	50.4	506.7	52.0	74.24
45	48.07	20.86	1002	97.42	49.8	508.0	50.7	75.94