

LBD/HP 230

Brushless
drives
stand alone

Brushless drives
stand alone



• BRUSHLESS DRIVE 230 VAC

with **CANopen & EtherCAT** interface dedicated to the FCT series motion controller

Power supply

230Vac single phase

Control supply

24Vdc

Rated current

230Vac: 5,5A - 8,5A

Peak current

230Vac: 11A - 17A

Interface

CANopen DS402 (2 RJ45 connectors), EtherCAT,
± 10V, Pulse/direction

Feedback

Resolver, TTL incremental encoder, TTL incremental encoder+HES
SinCos, SinCos+HES, HIPERFACE absolute encoder single and multturn,
digital HIPERFACE DSL absolute encoder, digital EnDat 2.2 absolute encoder,
linear absolute encoder

Encoder emulation

Incremental TTL (differential output)

2 Analog inputs

16 bits +/-10V

1 Analog output

8 bits +/- 2,5V

5 Digital inputs

24Vdc optoisolated: general purpose or configurable
as Capture, Index, Limit switch +/-, Enable, STEP/DIR

3 Digital outputs

Parametrable 24Vdc max 300mA with dedicated
terminal connection for motor brake control
(external power device required)

Braking resistor

35W included. External connections available

STO function

2 channels, SIL3

Motor thermal sensor

PTC/NTC

EMC filter

Choke integrated

Certifications: CE, UL



EtherCAT  **CANopen** 

• OVERALL DIMENSIONS

Type	LBD/HP 230	
Peak current	11	17
Standard dimensions (mm)	H177,8 x W75,4 x D149,1	
Weight (Kg)	1,5	

• BRAKING RESISTOR

Ref. Drives	Braking resistor	Ohm / Watt
LBDHP2311	DP50/200	50 Ohm 200 W
LBDHP2317	DP50/200	50 Ohm 200 W

LBD/HP 400

Brushless
drives
stand alone

Brushless drives
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• BRUSHLESS DRIVE 400 VAC

with **CANopen & EtherCAT** interface dedicated to the FCT series motion controller

Power supply

400Vac three phase

Control supply

24Vdc

Rated current

400Vac: 4 - 10 - 22,5* - 35* - 75* A

Peak current

400Vac: 8 - 20 - 45* - 100* - 200* A

Interface

CANopen DS402 (2 RJ45 connectors), EtherCAT,
± 10V, Pulse/direction

Feedback

Resolver, TTL incremental encoder, TTL incremental encoder+HES,
SinCos, SinCos+HES, HIPERFACE absolute encoder single and multi-
turn, digital HIPERFACE DSL absolute encoder, digital EnDat
2.2 absolute encoder, linear absolute encoder

Encoder emulation

Incremental TTL (differential output)

2 Analog inputs

16bits +/-10V

1 Analog output

8 bits +/- 2,5V

5 Digital inputs

24Vdc optoisolated: general purpose or configurable as
Capture, Index, Limit switch +/-, Enable, STEP/DIR

3 Digital outputs

Parametrable 24Vdc max 300mA with dedicated terminal
connection for motor brake control (external power device required)

Braking resistor

35W included. External connections available

STO function

2 channels, SIL3

Motor thermal sensor

PTC/NTC

EMC filter

Choke integrated

Certifications:

CE

UL: Except for the codes LBD40200(200A) and MMGDPS400/64.000(64kW)

* external power supply unit (code **MMGDPS400** / 16.000)
(code **MMGDPS400** / 32.000)
(code **MMGDPS400** / 64.000)



EtherCAT  **CANopen**

• OVERALL DIMENSIONS

Type	LBD/HP 400				
Peak current	008	020	045	100	200
Standard dimension mm	H235xW75,4xD191		235x80x215,3	H295xW166,7xD218,4	
Weight (Kg)	2,2		3,3	8,5	

• BRAKING RESISTOR

Ref. Drives	Braking resistor	Ohm / Watt
LBDHP40008	DP100/100	100 Ohm 100 W
LBDHP40020	DP50/200	50 Ohm 200 W
LBDHP40045	DP33/280 (on MMGSPS400/16)	33 Ohm 280 W
LBDHP40100	DP16,5/560 (on MMGSPS400/32)	16,5 Ohm 560 W
LBDHP40200	DP7,5/560 (on MMGDPS400/64)	7,5 Ohm 560 W

LBD/HP

Ordering Codes

• LBD

Type	Power supply	Peak current (cc)	Interface/feedback (XXX)	ab**	c***
CAN version - LBD23CC.XXX.abc - 230V					
LBDHP2311/CAN.abc	23(230V)	11 (11 A)	CAN fieldbus/Standard feedback	00	0
LBDHP2311/CND.abc	23(230V)	11 (11 A)	CAN fieldbus/Digital feedback	00	0
LBDHP2317/CAN.abc	23(230V)	17 (17 A)	CAN fieldbus/Standard feedback	00	0
LBDHP2317/CND.abc	23(230V)	17 (17 A)	CAN fieldbus/Digital feedback	00	0
EtherCAT version - LBD23CC.XXX.abc - 230V					
LBDHP2311/ETC.abc	23(230V)	11 (11 A)	EtherCAT fieldbus/Standard feedback	00	0
LBDHP2311/ETDabc	23(230V)	11 (11 A)	EtherCAT fieldbus/Digital feedback	00	0
LBDHP2317/ETC.abc	23(230V)	17 (17 A)	EtherCAT fieldbus/Standard feedback	00	0
LBDHP2317/ETD.abc	23(230V)	17 (17 A)	EtherCAT fieldbus/Digital feedback	00	0

Type	Power supply	Peak current (cc)	Interface/feedback (XXX)	a	b**	c***
CAN version - LBD40CC.XXX.abc - 400V						
LBDHP40008/CAN.abc	40(400V)	008 (08 A)	CAN fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40008/CND.abc	40(400V)	008 (08 A)	CAN fieldbus/Digital feedback		0	0
LBDHP40020/CAN.abc	40(400V)	020 (20 A)	CAN fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40020/CND.abc	40(400V)	020 (20 A)	CAN fieldbus/Digital feedback		0	0
LBDHP40045/CAN.abc	40(400V)	045 (45 A)*	CAN fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40045/CND.abc	40(400V)	045 (45 A)*	CAN fieldbus/Digital feedback		0	0
LBDHP40100/CAN.abc	40(400V)	100 (100 A)*	CAN fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40100/CND.abc	40(400V)	100 (100 A)*	CAN fieldbus/Digital feedback		0	0
LBDHP40200/CAN.abc	40(400V)	200 (200 A)*	CAN fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40200/CND.abc	40(400V)	200 (200 A)*	CAN fieldbus/Digital feedback		0	0
EtherCAT version - LBD40CC.XXX.abc - 400V						
LBDHP40008/ETC.abc	40(400V)	008 (08 A)	EtherCAT fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40008/ETD.abc	40(400V)	008 (08 A)	EtherCAT fieldbus/Digital feedback		0	0
LBDHP40020/ETC.abc	40(400V)	020 (20 A)	EtherCAT fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40020/ETD.abc	40(400V)	020 (20 A)	EtherCAT fieldbus/Digital feedback		0	0
LBDHP40045/ETC.abc	40(400V)	045 (45 A)*	EtherCAT fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40045/ETD.abc	40(400V)	045 (45 A)*	EtherCAT fieldbus/Digital feedback		0	0
LBDHP40100/ETC.abc	40(400V)	100 (100 A)*	EtherCAT fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40100/ETD.abc	40(400V)	100 (100 A)*	EtherCAT fieldbus/Digital feedback		0	0
LBDHP40200/ETC.abc	40(400V)	200 (200 A)*	EtherCAT fieldbus/Standard feedback	0=DSUB standard	0	0
LBDHP40200/ETD.abc	40(400V)	200 (200 A)*	EtherCAT fieldbus/Digital feedback		0	0

* external power supply unit required

** reserved

*** customized

• MMGDPS

POWER SUPPLY

ORDERING CODE: MMGDPS400/pp.000

MMGDPS400/16.000	Power supply 16 kW with kit external connector
MMGDPS400/32.000	Power supply 32 kW with kit external connector
MMGDPS400/64.000	Power supply 64 kW with kit external connector



CMZ engineers and manufactures electronic systems for industrial motion control.

The company targets to OEMs and systems integrators for the co-development of automatic machines featuring a deep level of customization in multi axis motion. The result: high performing machines with unique, special features.

Established in 1976 focusing on controllers, today CMZ offers a complete portfolio of solutions including the systems design, the electronics programming, the development of ready-to-use application libraries and ad-hoc softwares, alongside a wide selection of master controllers IEC61131 up to 99 axis, integrated and stand-alone drives, brushless and stepper motors up to 120 Nm strictly compact and Made in Italy, peripherals and I/O modules both digital and analogic, integrated vision systems based on machine learning technology, HMI operator panels.

CMZ's high technological and safety standing is based on its team of 70 technicians and engineers. The systems realized to date in its plant count over 125,000 units.

CMZ is part of SOGA ENERGY TEAM industrial group operating in power generation, motion and control since 1966.

CMZ sviluppa e realizza sistemi elettronici e soluzioni per il motion control industriale.

L'azienda si rivolge a OEMs e system integrators per la co-progettazione di macchine automatiche dotate di funzionalità personalizzate e speciali nella movimentazione degli assi. Il risultato: macchine ad alta performance e dalle caratteristiche uniche.

Fondata nel 1976 con focus sui controllori, oggi CMZ offre un portfolio integrale di soluzioni che include la progettazione dei sistemi, la programmazione dell'elettronica, lo sviluppo di librerie applicative ready-to-use e pacchetti software ad-hoc, affiancati a un'ampia scelta di controllori IEC 61131 programmabili fino a 99 assi, azionamenti integrati e stand-alone, motori brushless e passo-passo fino a 120 Nm rigorosamente compatti e Made in Italy, periferiche e moduli I/O digitali e analogici, sistemi di visione integrata con tecnologia machine learning, pannelli operatore HMI.

L'elevato standing tecnologico e di sicurezza di CMZ si basa su un team di 70 tecnici e ingegneri. I sistemi realizzati fino ad oggi nel sito produttivo dell'azienda sono oltre 125.000. CMZ fa parte del gruppo industriale SOGA ENERGY TEAM, attivo dal 1966 a livello internazionale nei settori power generation, motion e control.

