



MACK[®]
DRIVE+POWER

— MKD —

— MKP —



P.N. : D.S. / 10.05.16 / MKDP / 10

DRIVE MODEL	MKD 300				MKD 600				
SIZE (A)	2/4	4/8	6/12	8/16	1.5/3	2.5/5	3.5/7	5/10	7/14
Rated Current / Peak Current x 5 sec (Arms)	2 / 4	4 / 8	6 / 12	8 / 16	1.5 / 3	2.5 / 5	3.5 / 7	5 / 10	7 / 14
Power Supply	310 ÷ 385 V _{DC} (from MKP 300)				530 ÷ 650 V _{DC} (from MKP 600)				
Control Brake Supply	24 V _{DC} (± 5%) - 1 A _{DC} max (from insulating transformer)								
Backup Logic Supply	24 V _{DC} (± 10%) - 0.25 A _{DC} max (from specific MACK POWER Supply)								
Case	A	A	A-V ⚡	A-V ⚡	A	A	A-V ⚡	A-V ⚡	A-V ⚡

POWER MODEL	MKP 300 M *	MKP 300 T	MKP 600 T
SIZE	3.0 (3000 w)	4.5 (4500 w)	4.5 (4500 w)
Power In (50/60 Hz - grounded system only) (V _{rms})	1 x 230 V _{AC} (± 10%)	3 x 230 V _{AC} (± 10%)	3 x 400 V _{AC} (± 10%)
(Arms)	8 A	12 A	7 A
Power Out (at full - load) (V _{DC})	310 - 385 V	310 - 385 V	530 - 650 V
(A _{DC})	10 A / 20 A _{PK} X 5"	15 A / 30 A _{PK} X 5"	8.5 A / 17 A _{PK} X 5"
Backup In (from insulating transformer)	24 V _{DC} (± 10%) - 2.5 A _{DC} max		
F1: Power In Line Fuses (T - type = time - lag)	12 A / 250 V	16 A / 250 V	8 A / 500 V
Case	B		

* Single ph does not allow to obtain the rated torque and speed of motor. Contact Axor for details.

STANDARD FEATURES

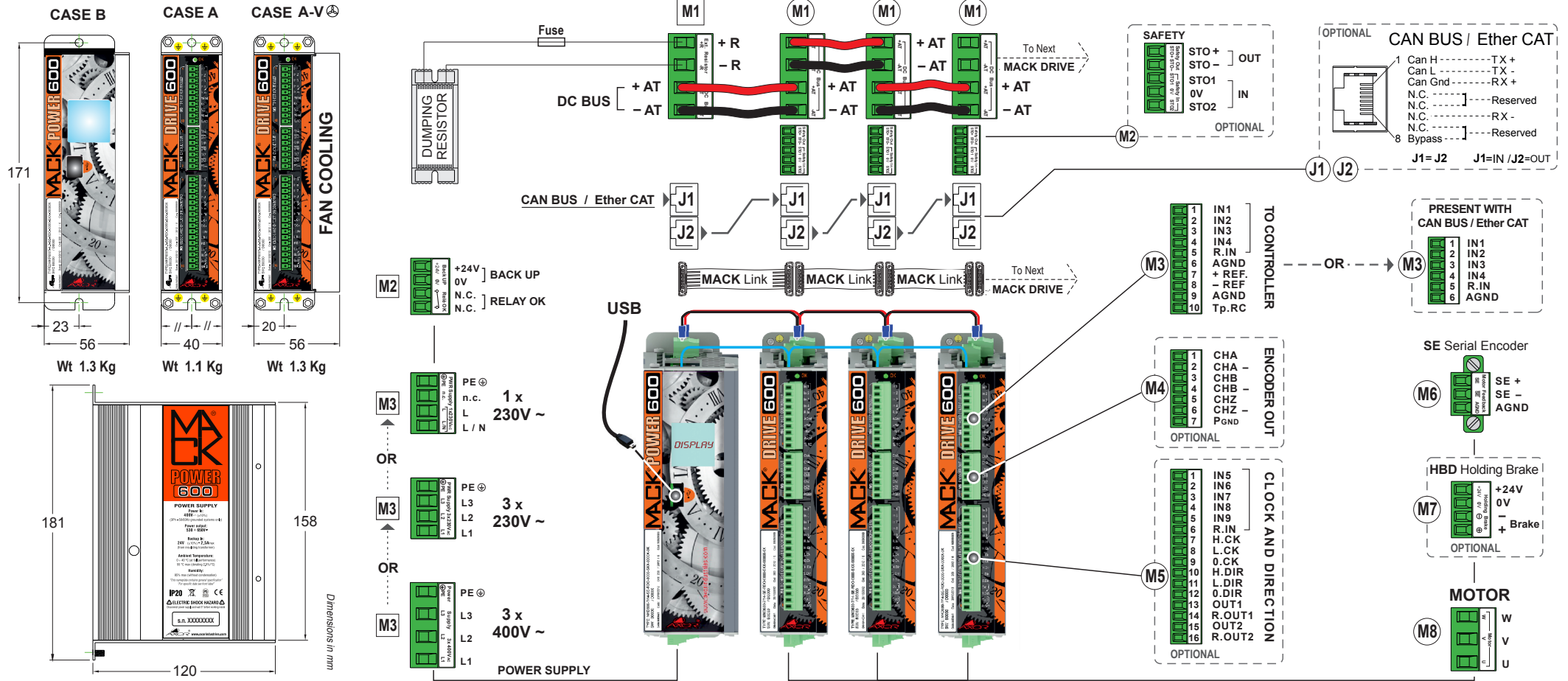
- ♦ Very compact multiaxis servosystem for brushless motors
- ♦ Power supply 230 and 400 V_{AC} direct from the mains
- ♦ Driving motor ranges up to 11 Nm
- ♦ Several drives powered by a single supply unit
- ♦ Built-in EMC line filter, in-rush and regen circuits
- ♦ **USB** single access for setting and monitoring all drives
- ♦ **SE** Serial Encoder feedback with single hybrid cable for motor connections
- ♦ **Speeder-One**[®] software interface
- ♦ **RD0** differential analog ref. ± 10v (13 bit)
- ♦ Protection rating: IP20
- ♦ Storage time: 1 year²
- ♦ Operating frequency 8 KHz
- ♦ Current / velocity loop bandwidth 2 KHZ / 200 Hz
- ♦ Ambient temp¹:
 - operating at rated data: 0 - 40°C (no derating)
 - rated and pk current derating: 40 - 55°C (2.5% / °C)
 - maximum operating: 55°C max
 - storage: -20 - 55°C
- ♦ Humidity¹: 85% max (operating & storage)
- ♦ Altitude a.m.s.l.
 - operating at rated data: 1000 m
 - rated and pk current derating: up to 2500 m (1.5% /100m)

OPTIONS

- ♦ **CD0** Clock and Direction control mode
- ♦ **CB0** CAN Bus control mode
- ♦ **ETC** Ether CAT control mode
- ♦ **AE** Absolute Multiturn Encoder feedback
- ♦ **EC** Commutation Encoder feedback
- ♦ **HBD** Motor holding brake drive circuit
- ♦ **STO** Safe Torque Off safety function
- ♦ **M5** Additional I/O connector
- ♦ **M4** Emulated Encoder connector
- ♦ **R02 / R05 / R10** increased dumping to 160W / 500W / 1000W

NOTE: ¹ Free from condensation ² After one year storage the electrolytic capacitors must be reformed. Contact AXOR for details.





MACK® DRIVE		HARDWARE CODE		SW CODE		MACK® POWER		HARDWARE CODE		SW CODE	
MKD 600 - 7/14 SE - RD0		- 0 0 0 0 - Sxxx		(X000/X000/X000)		MKP 600T - 4.5 - R01 - 0 0 0 - Sxxx		(X000/X000/X000)			
DRIVE LINE		HBD (Holding Brake Drive):		SPEC NUMBER		POWER SUPPLY		SPEC NUMBER		FW	SW
MODEL: 300 or 600		0 = w/out (std), 1 = with (opt)		(opt)		MODEL Power In:		(opt)			CONFIG FILE
SIZE: (see table on reverse)		STO (Safe torque Off):				300M = 1x230V _{AC} (for MKD 300)					
FEEDBACK:		0 = w/out (std), 1 = with (opt)				300T = 3x230V _{AC} (for MKD 300)					
SE = Serial Encoder (std)		M5 (Additional I/O):				600T = 3x400V _{AC} (for MKD 600)					
AE = Absolute Multiturn Encoder (opt)		0 = w/out (std), 1 = with (opt)				SIZE: Power Out					
EC = Commutation Encoder (opt)		M4 (Emulated Encoder):				3.0 = 3000 Wrms (for MKD 300M)					
CONTROL MODE:		0 = w/out (std), 1 = with (opt)				4.5 = 4500 Wrms (for MKD 300T-600T)					
RD0 = Diff. analog reference (std)		T (Tropicalized): 0 = w/out (std), 1 = with (opt)				DUMPING SIZE: Ext. Resistors					
CD0 = Clock and Direction (opt)						MKP300 : R02 / 300 = 160W 22Ω (std), R05 / 300 = 500W 22Ω (opt)					
CB0 = CAN BUS (opt)						MKP600 : R01 / 600 = 100W 39Ω (std), R02 / 600 = 160W 33Ω (opt)					
ETC = Ether CAT (opt)						R05 / 600 = 500W 33Ω (opt), R10 / 600 = 1000W 33Ω (opt)					