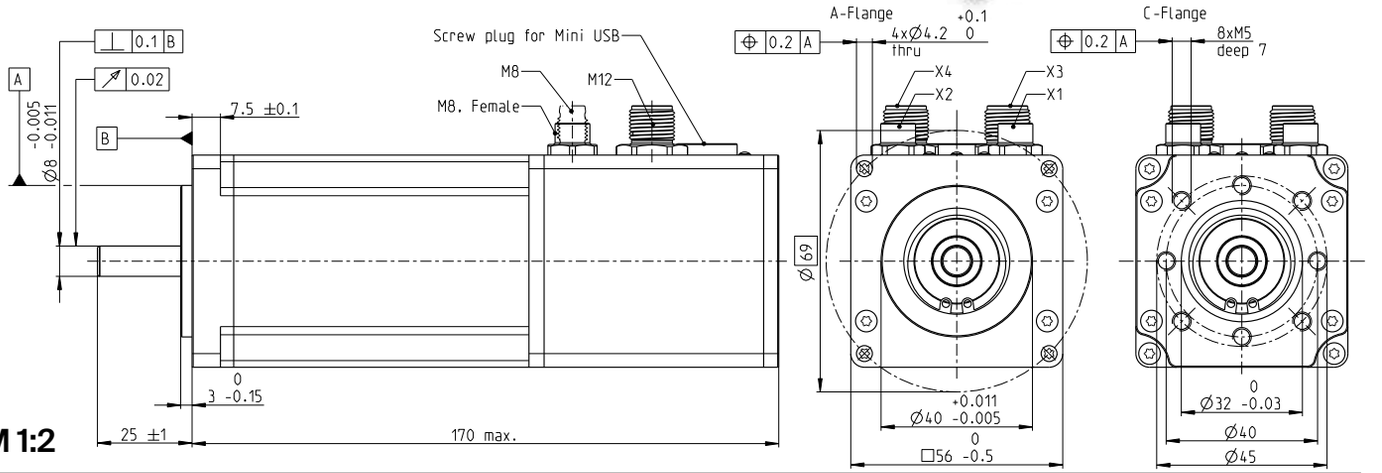
IDX 56 L with integrated electronics

Drive with Positioning/Speed Controller

Key Data: 283/308 W, 794 mNm, 6000 rpm

NEW



M 1:2

Drive data (provisional)				
1_ Nominal power supply voltage	V	24	48	
2_ Nominal speed	rpm	2750	3500	
3_ Nominal torque at 25°C (max. continuous torque)	mNm	794	779	
4_ Nominal torque at 40°C (max. continuous torque)	mNm	704	690	
5_ Nominal supply current at 25°C	A	11.2	6.7	
6_ Nominal supply current at 40°C	A	10	6.0	
7_ Maximum speed at nominal voltage	rpm	3090	4915	
8_ Maximum permissible drive speed	rpm	6000	5000	
9_ Maximum torque (short-time)	mNm	1596	1997	
10_ Maximum supply current (short-time)	A	24	24	
11_ Rotor inertia of the drive	gcm²	265	265	
12_ Nominal supply voltage + V_{CC}	V	12..48	12..48	
13_ Run-up time to maximum speed	ms	5.4	6.9	

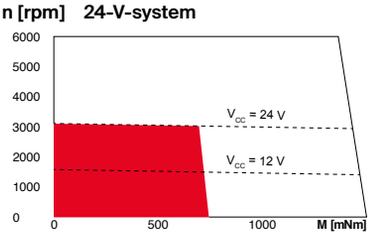
Thermal data		
14_ Thermal resistance housing-ambient	K/W	2.01
15_ Thermal resistance winding-housing	K/W	0.76
16_ Thermal time constant winding	s	20.1
17_ Thermal time constant drive	s	1450
18_ Ambient temperature	°C	-20...+85
Mechanical data		
19_ Axial play	mm	0.14
Preload	N	21
Direction of force		Pull
20_ Radial play		preloaded
21_ Max. axial load (dynamic)	N	12
22_ Max. force for press fits (static)	N	150
23_ Max. radial load [mm from flange]	N	110 [12.5]

Other specifications		
24_ Weight of the drive	g	1445
25_ Typical noise level [rpm]	dBA	58 [4000]
Encoder: Steps per turn		4096

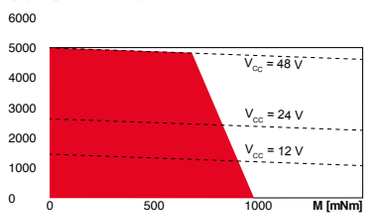
Supply	M12, male, 5 poles, L-coded
I/O's	M12, male, 12 poles, A-coded
CANopen Input	M8, male, 5 poles, B-coded
CANopen Output	M8, female, 5 poles, B-coded
EtherCAT Input	M8, female, 4 poles, A-coded
EtherCAT Output	M8, female, 4 poles, A-coded

Operating Range

n [rpm] 24-V-system



n [rpm] 48-V-system



Continuous operation
Short term operation

maxon Modular System Details on catalog page 32

maxon gear	Stages [opt.]	maxon brake
354_GPX 52 A/UP	1–3	522_AB 34
355_GPX 52 LN	1–3	

Configuration

Flange front: A-Flange/C-Flange
Interfaces: CANopen / EtherCAT