

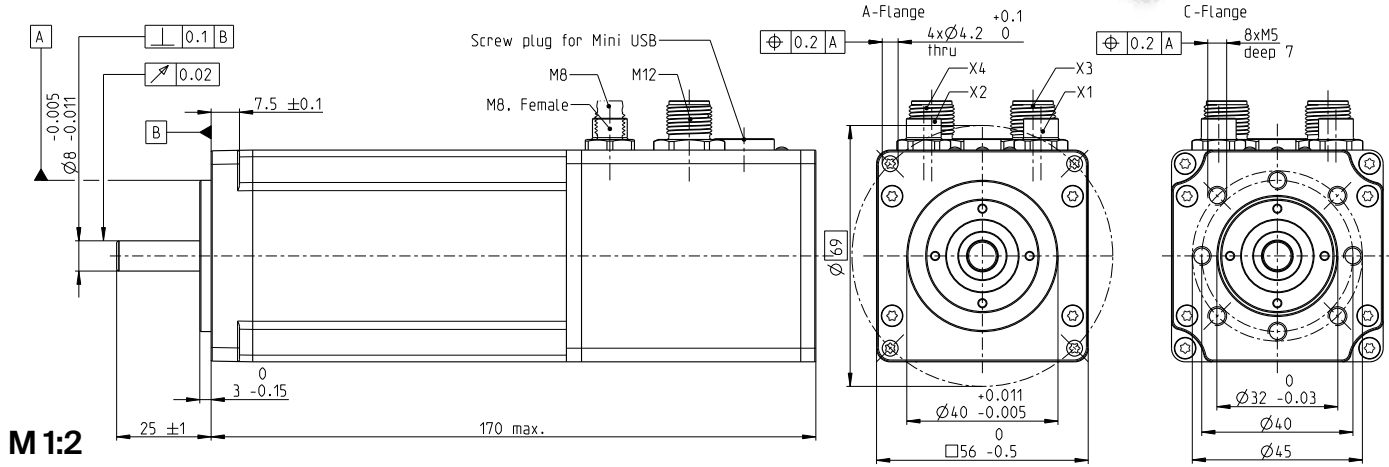
# IDX 56 L with integrated electronics

Drive with Positioning/Speed Controller



IDX

**Key Data: 280/316 W, 795 mNm, 6000 rpm**



**M 1:2**

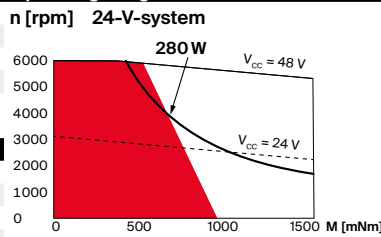
**Drive data (provisional)**

1_ Nominal power supply voltage	V	24	48
2_ Nominal speed	rpm	2724	3500
3_ Nominal torque at 25°C	mNm	795	779
4_ Nominal torque at 40°C	mNm	690	690
5_ Nominal supply current at 25°C	A	11.4	6.7
6_ Nominal supply current at 40°C	A	9.9	6.0
7_ Maximum speed at nominal voltage	rpm	3110	4925
8_ Maximum permissible drive speed	rpm	6000	5000
9_ Maximum torque (short-time)	mNm	1589	2006
10_ Maximum supply current (short-time)	A	24	24
11_ Rotor inertia of the drive	gcm <sup>2</sup>	265	265
12_ Nominal supply voltage + V <sub>CC</sub>	V	12..48	12..48
13_ Mechanical time constant	ms	0.57	0.55

**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	-30...+85

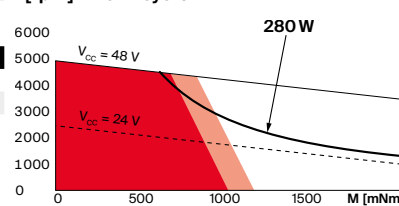
**Operating Range**



**Mechanical data**

19_ Axial play	mm	0.14
Preload	N	16
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]

**Operating Range**



**Other specifications**

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

- Continuous operation
- Continuous operation with reduced thermal resistance R<sub>th2</sub> 50%
- Short term operation

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

**Modular System**

<b>Gear</b>	Stages [opt.]	<b>Sensor</b>	<b>Motor Control</b>
390_GPX 52 A/UP	1-3	integrated	integrated
391_GPX 52 LN	1-3		
<b>Accessories</b>			
569_AB 42 S			

Details on catalog page 40

**Configuration**

Flange front: A-Flange/C-Flange  
 Interface with Positioning/Speed Controller: CANopen / EtherCAT  
 Interface with Speed Controller: I/O