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IM-3X10

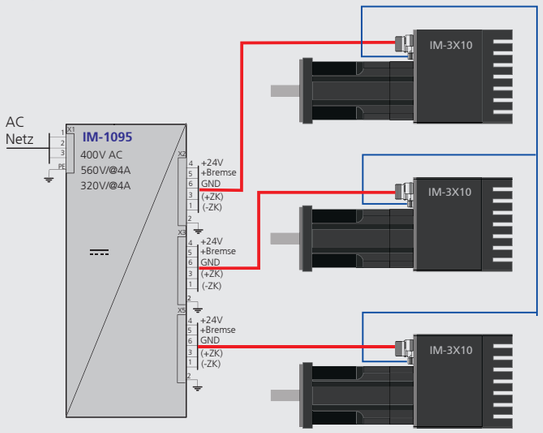
Option

Option	IM-3X10
Voltage	560 V DC * or 3x 400 V AC
Encoder	singleturn or multiturn
Fieldbus	without* opt.Profibus,CanBus or Ethercat
IO	local Bus or Sensor_IO *
Brake	yes or no *
Protection	IP54 * or IP67

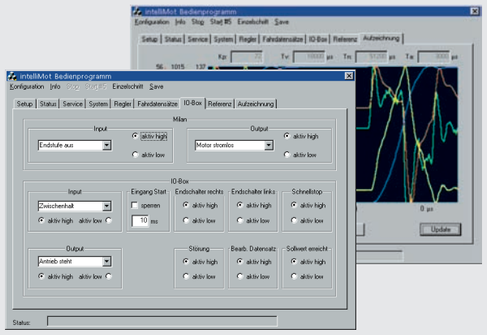
*standard equipment with no extra charge

Application

Feldbus; Profibus, CanBus or Ethercat



Control software



Servo drive series IM-3X10

The drives can be obtained with a single- or multiturn-encoder, which have a resolution of 4096 increments per revolution.

Each drive has a digital input and a digital output. Optional, you can replace them with a local IO bus system.

Each drive can be equipped with a field bus system. There is Can_Bus DS402, Profibus or Ethercat available.

A holding brake with integrated management is procurable for every drive of the IM-3X10 series.

Application IM-1095 and IM-3X10

In a DC-Link network you can connect multiple IM-3X10 servo drives to the IM-1095 feed-in module, which can operate with a maximum power of 4 kW.

The integrated ballast module in the IM-1095 compensates the regenerating energy of the drive network.

For IP67 applications, the IM-1096 is available. Optionally you can also supply these drives directly on the AC 3x400V main. Under this option, each drive gets a rectifier and a ballast resistor. General, these drives require no additional filtering measures.

IntelliTool

The supplied menu managed control software is designed for commissioning and test on the servo drive. It includes following features and benefits:

- Input, display and saving of parameters, drive records and status messages,
- Creation of working cycles
- Display of power and speed curves (Monitoring)

automation & drive

IM-3X10 Servo drive 3,2 ... 6,0 Nm

Product information

Servo drive series IM-3X10

The compact and intelligent low voltage servo drive IM-3X10 is designed for the S1 handling at a 560V DC voltage or a 3-phase 400V AC.

The power output stage with integrated control electronics, power supply and EMC filters are integrated compactly in this servo drive series.

This provides technical and economical benefits in the standalone mode as well as in the decentralized field bus mode.

The commissioning is very fast because of the alogned electronics and drive components.

The application field of the IM-3000 is for complex tasks in dynamic automation technology as on packaging, handling units etc.

The IM-3X10 servo drive can be equipped with a fieldbus system. By default, the service interface for the parameterization and the creation of simple processes is included. The servo drive is delivered with an input and an output. Optionally, there is a local bus system for digital and analog I/O available.

Performances

- Low voltage application for 100% S1 handling
- Supply 560 V DC, optional 3 x 400 V AC
- Torque from 3,2 Nm up 6,0 Nm
- Temperature range from 0°C up to +50°C
- Electronical overload and temperature rise protection
- Busable for fieldbus Profibus, Can-Open and Ethercat
- Local I/O Bus for analog and digital I/O
- High reliability and durability
- Integrated speed, position- and torquemode
- Standby for Logicsupply
- IP54 case, convection
- Robust aluminium case
- Compactly dimension
- Optional brake with management
- Optional IP67

LOGic automation & drive

IM-3X10

Technical data

general data	IM - 3X10
voltage - 3 phase	560 V DC +15% -10% (Opt. 3x 400 V AC)
ambient temperature	0°C bis 50°C *1
current consumption	min. 80 mA
solution	4096 increments per revolution
positioning	$\pm 2^{19}$ revolutions
nom.speed	3000 min^{-1}
peaktorque	2,0 x nom. torque
handling	S1 - ED=100%*2
specific data	
nom.torque	3,2 Nm .. 6,0 Nm
inertia	1,7 kgcm² .. 3,5 kgcm²
inputpower	1000 W .. 1900 W
switch on current	1,5 A
length *	236 mm .. 316 mm
weigth *	6,5 kg .. 8,9 kg
protection	IP 54 (Opt. IP 67)
color	black RAL 9005
program memory	100 driving set
program memory	RS232C bis 38,4 kBaud
option electrical	
local IO Bus	for analog and digital input
digital IO	three free programmable IO's
fieldbus	Profibus_DP, CAN_Open DSP 402, Ethercat
option mechanical	
brake (holding brake)	24 VDC I=0,7A m=0,9 kg J=0,37 kgcm²

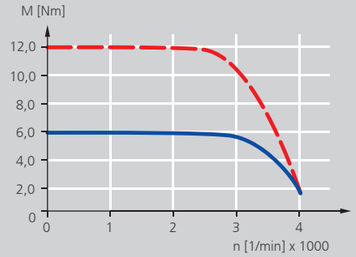
subject to change without notice
*1 derating up 70°C electronic temperature
*2 performance at 20°C ambient temperature

IM-3810

Servo drive 6,0 Nm

nom.torque	6,0 Nm
inertia	3,5 kgcm²
inputpower	1900 W
switch on current	3,4 A
length *3	316 mm
weigth *3	8,9 kg

IM-3810



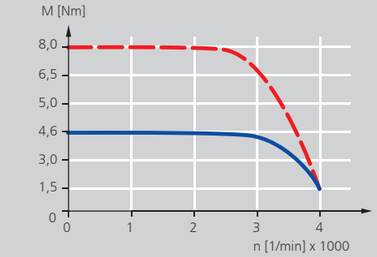
peak-torque Mp
nom-torque Mn

IM-3710

Servo drive 4,6 Nm

nom.torque	4,6 Nm
inertia	2,6 kgcm²
inputpower	1450 W
switch on current	2,6 A
length *3	276 mm
weigth *3	7,7 kg

IM-3710



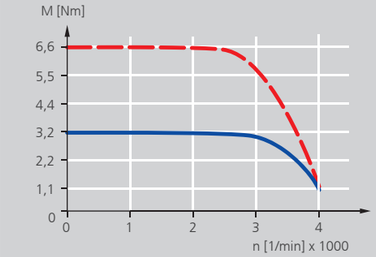
*3 with brake: length + 43 mm, weight +0,9 kg
with multiturnencoder: length +10 mm, weight +0,1 kg

IM-3610

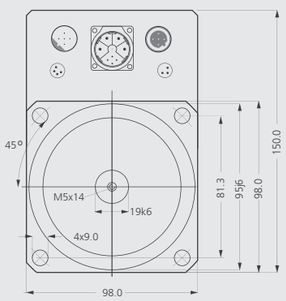
Servo drive 3,2 Nm

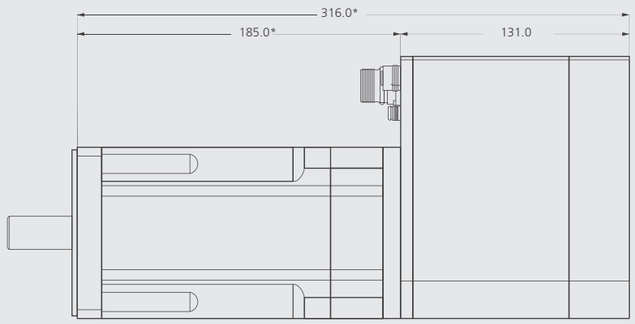
nom.torque	3,2 Nm
inertia	1,7 kgcm²
inputpower	1000 W
switch on current	1,8 A
length *3	236 mm
weigth *3	6,5 kg

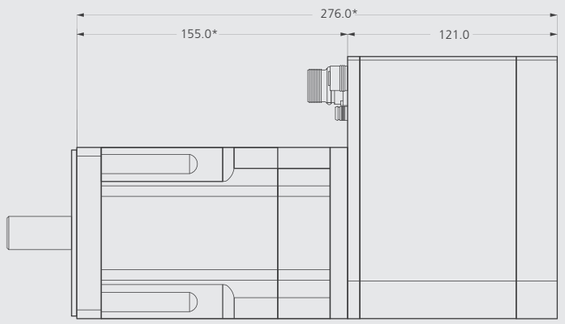
IM-3610

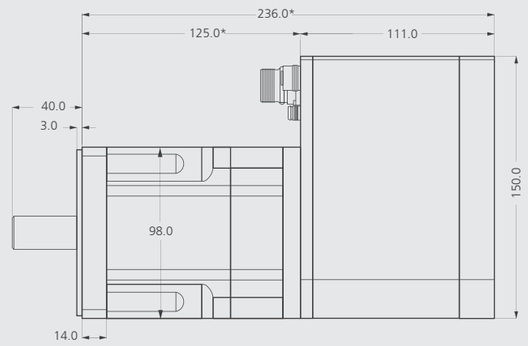


Mechanical dimension







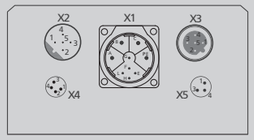


* with brake: length + 43mm - with multiturnencoder: length +10 mm

IM-3X10

Connections

X1 = AC / DC supply
X2 = fieldbus in
X3 = fieldbus out
X4 = option
X5 = serviceinterface



Option

For the series IM-3X10 are the following options available.

2X3 digital IO
1L1 local bus
1P3 profibus DP
1C1 canbus DSP 402
1E1 ethercat
3A0 singleturnencoder
3A1 multiturnencoder
6B38 brake IM-3810
6B36 brake IM-3610
6B37 brake IM-3710
6Z38 AC-Supply IM-3810
6Z36 AC-Supply IM-3610
6Z37 AC-Supply IM-3710