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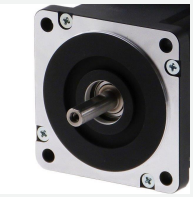
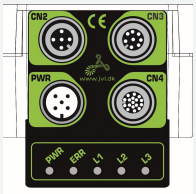
MIS341C12Q5H285

Int.Step 12-72VDC, RS485, EncC-L

ServoStep MIS is a series of integrated stepper motors with servo control (closed-loop) and up to 3000 RPM.
It consists of NEMA 17..23..34..43 size motors with holding torques from 0.18 Nm up to 25 Nm.
All motors are programmable and have 8 I/O points (each can be DI or DO or AI).

Options include:
- incremental (semi-absolute) encoder*). absolute multiturn encoder
- brake module*)
- radial or axial*) connectors
- CANopen
- Ethernet interface w/built-in switch for easy daisy-chaining and all protocols (Profinet. EtherNet/IP. EtherCAT. Sercos. ModbusTCP/UDP. Powerlink).
- Wireless versions are also possible: WLAN or BlueTooth.
- Special shaft versions include double shaft and hollow shaft. contact JVL to learn which combinations are possible.
- Higher IP versions are also available. *) Depending of other options





General information

Description	Int.Step 12-72VDC, RS485, EncC-L, 4xM12. 17pF:8xDIO/AI+RS422+RS485 8pF:RS485 5pF:485, High Resolution: 409.600 step/rev. ±0.01 RPM, Programmable (incl. current, position & velocity), Closed-Loop Semi-Abs. Encoder 4096 CPR, Ø9.53x30.5 mm D-shape Shaft: IP42Motor: IP42, 86.4x125 mm Holding Torque: 6.1 NmMax. 322.37 WRadial Connector12-72 VDC		
Manufacture	JVL	**Motor type**	Integrated Stepper - Rotating
Motor resolution	409600	**Encoder type**	H2 Incremental/abs_singleturn
Speed [Rpm]	3000.00	**Power Peak [W]**	322.37
Flange size	NEMA 34 - 87x87mm	**Shaft size - Front [mm]**	9.53 mm
Running torque [Nm]	6.1	**Rated Winding current [A]**	9.0
Holding torque [Nm]	6.1	**Connectivity: Without module**	RS485
Integrated PLC	Yes	**PLC no. of DI/DO/AI**	8
Closed loop	Yes	**STO connector**	No
Integrated gear	No	**Gear ratio**	
Brake	External brake option	**Protection House/Shaft**	
Shaft Double	No	**Main supply [V]**	12-72

MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

General information

Main supply UL [V]	12-60	**Voltage type - Main**	DC
Control voltage (CVI/O+) [VDC]	7-28	**Control Voltage for UL recognized**	7–30 VDC 150 mA + max 500 mA for user outputs
Weight net [kg]	3.06	**MTBF 100% [Year]**	13
Weight gross [kg]	3.32	**MTBF 30% [Year]**	15
Software	MacTalk		
CE Marked	Yes		
Approval - ROHS-3	Yes		
Approval UL	Yes. Recognized	**UL Installation**	Read more in usermanual about UL precautions

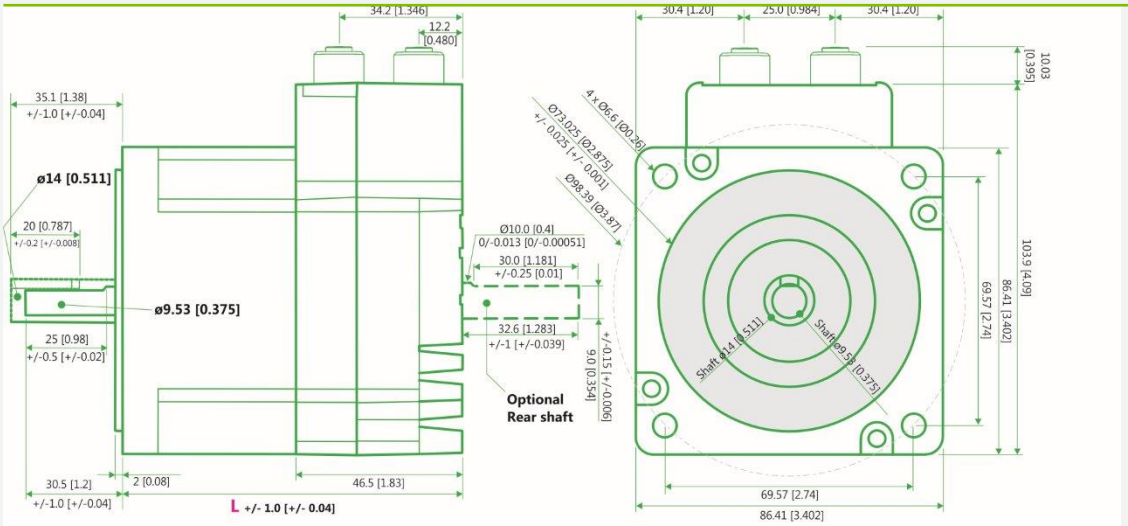
Ambient Temperature range [°C]:		**Max. Amb. Temperature range - Torque derating:**	
Maximum Installation Altitude [m]:		**- Power Derating every 1000m over 1000m [%]:**	

Motion Information:			
Velocity Precision [+/-ppm]		**Velocity Resolution [Rpm]**	
Acceleration / Deceleration Range [Rpm/s]		**Acceleration / Deceleration Range [Rpm/s]**	
Electronic Gearing Ratio [Range / Resolution]		**Country Of Origin**	DK
Tariff no	85015100	**Tariff no US**	

MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

Mechanical information

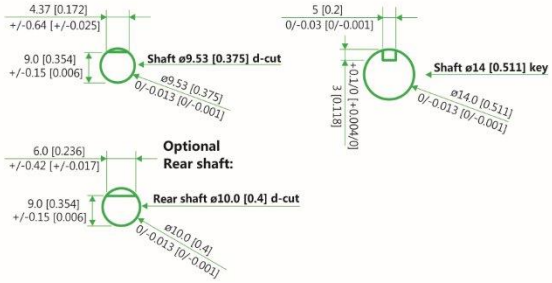
Paint type



[ ] = Inches

Motor Type	Length (L) ±1.0 [±0.04]	Shaft dia. 9.53 [0.375] D-cut See also det. shaft drawings	Shaft dia. 14 [0.511] with 5x5 key See also det. shaft drawings	Shaft dia. 14 [0.511] Round shaft See also det. shaft drawings
MIS340...	95.0 [3.74]	✓	✓	
MIS341...	125.0 [4.92]	✓	✓	✓
MIS342...	155.0 [6.10]		✓	
MIS343...	185.0 [7.28]		✓	
Below are motors with rear shaft ø10 [0.4] dia. D-cut				
MIS340...	95.0 [3.74]	✓		
MIS341...	125.0 [4.92]	✓		
MIS342...	155.0 [6.10]		✓	
MIS343...	185.0 [7.28]			

These options are currently in stock, other options are available (Feb. 2019).



Motor length [mm]	125.0	**Motor width [mm]**	86.4
Motor height [mm]	104.0		
Protection house	IP42	**Protection shaft**	IP42
		Flange Rear	No
Flange Type Front		**Flange Type Rear**	
Motor diameter center front [mm]	73.0	**Motor diameter center rear [mm]**	
Bolt circle diameter front [mm]	98.4	**Bolt circle diameter front [mm]**	
Mounting holes front [mm]	6.6 mm	**Mounting holes rear [mm]**	
Flange Thickness [mm]		**Flange material**	Aluminium
		Shaft Double	No
Shaft Type Output	D-shape	**Shaft Type Rear**	
Shaft size - Front [mm]	9.53 mm	**Shaft size - Rear**	-
Shaft length Front [mm]	30.5	**Shaft length Rear [mm]**	
Shaft material	Stainless steel SUS303	**Shaft Key included**	Key NOT included
Shaft Key Dimension	-		
Integrated gear	No	**Gear ratio**	

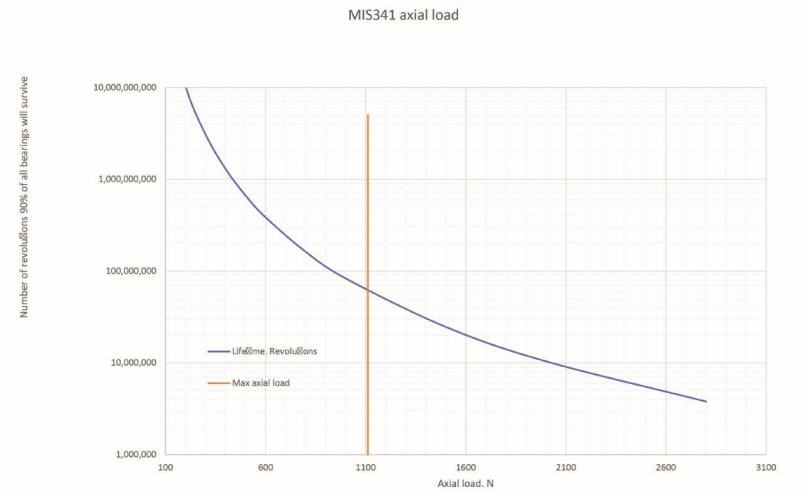
MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

Mechanical information

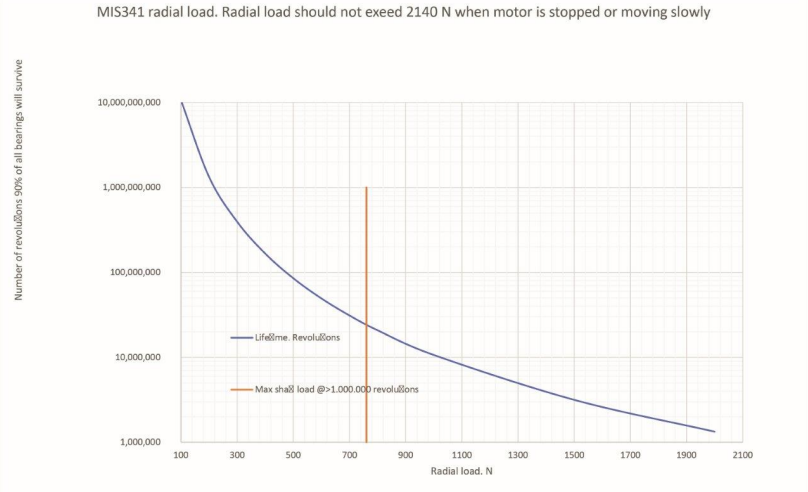
Gear efficiency [%]	< -	**Gear backlash [ArcMin]**	-
Brake	External brake option	**Brake - Go ON time [ms]**	-
Brake Holding torque [Nm]	-	**Brake - Go OFF time [ms]**	-
Rotor inertia [kgcm^2]	2.7	**Max inertia factor**	40
Precision Motor - Absolute [Deg -/+]	0.35	**Precision Motor - Max Load [Deg -/+]**	
Precision Motor - Repeatabillity [Deg -/+]	0.15	**Step angle [°/full step]**	1.8°
CAD 2D [PDF]	Download	**CAD 3D [STEP]**	Download
CAD 2D [DWG]	Download	**CAD 3D [DWG]**	No
CAD 3D [EASM]	No	**CAD 3D [IGES]**	Download
Datasheet - pdf		**CAD file page**	Link
User Manual	Download	**WEB page**	Link
Approval UL	Yes. Recognized	**UL Installation**	Read more in usermanual about UL precautions
STO connector	No	**Approval - ATEX**	No
Approval TÜV - STO	No	**Oil resistant**	
Temperature ambient [°C]	0...40 °C and 0...70 °C with derating of performance	**Temperature storage**	-40...70 °C
Humidity working	5...93% non-condensing	**Vibration**	5-25 Hz: +/-1.6mm, 25-500Hz: 4G, 1.0 oct./min
Shock	15G, 30ms. 6 x 1000 cycles in +/-X, +/-Y, +/-Z	**Withstand Voltage**	500 VDC between earth and supply ground
EMC in general	EMC Directive DIR2014/30/EU	**EMC Emission**	EN61800-3 / EN61000-6-3 / EN61000-6-4 all 2. enviroment
EMC Immunity	En IEC 61800-3 / EN61000-6-1 all 2. enviroment	**Safety in general**	LVD DIR2014/35/EU / EL61800 - USA and Canada only MIS34x products are pending
Safety wo STO	EN60950-1	**Safety w STO**	EN60950-1 / EN61508-1/-2 SIL3 / ISO13849-1/-2 / ISO62061 / EN61800-5-1/-2
Inviromental	IEC 60068-2-27, Test Ea. Shock test	**Inviromental 2**	IEC 60068-2-6, Test Fc. Vibration test
Inviromental 3	IEC 60068-2-2, Test Bd. covers temperaturerise/dry heat	**Inviromental 4**	IEC 60068-2-78, Perm. moisture/Damp heat, steady state
REACH SVHC document	REACH-SVHC Statement	**Low voltage Directive**	LVD conformity with EU standard: EN 61800-3
No Dual Use	Read more here		
Duty Cycle		**Max Duty Cycle [%]**	
Dutycycle UL	Read more in usermanual about UL precautions		
Front bearing type	6002ZZCM/5K	**Rear bearing type**	6002ZZCM/5K
Axial Load Max: Typical Term	Axial load Max Typical is a run of 7.200.000 revolutions at indicated load	**Axial Load Max: Long Term**	Axial load Max Long is a run of 1.440.000.000 revolutions at indicated load
Axial Load Max: Typical [N] (Bearing)	1111	**Axial Load Max: Long [N] (Bearing)**	384

MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

Mechanical information



Radial Load Max Typical Term:	Radial load Max Typical is a run of 7.200.000 revolutions at indicated load	**Radial Load Max Long Term:**	Radial load Max Long is a run of 1.440.000.000 revolutions at indicated load
Radial Load Max: Typical [N] (Bearing)		**Radial Load Max: Long [N] (Bearing)**	372



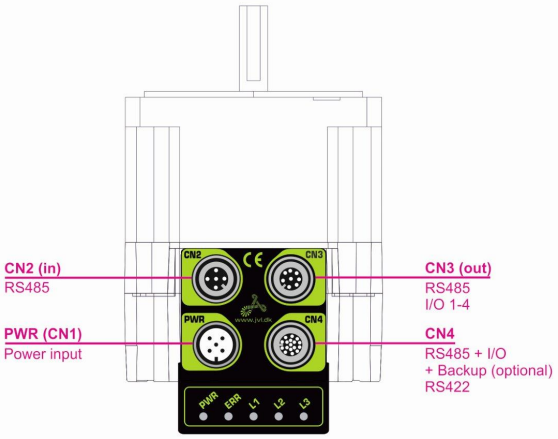
Radial load distance [mm]	15	**Axial play [mm]**	
Axial play force [N]		**Shaft Seal**	

MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

Connector information

Connector 1 label	PWR	**Connector 1**	M12 5-pin male A-coded
Connector 2 label	CN2	**Connector 2**	M12 5-pin female A-coded
Connector 3 label	CN3	**Connector 3**	M12 8-pin female A-coded
Connector 4 label	CN4	**Connector 4**	M12 17-pin female A-coded
Connector 1 RS485	No	**Connector 2 RS485**	Yes
Connector 3 RS485		**Connector 4 RS485**	Yes

Motor connectors



MIS34xC - Q5

RS485 serial communication in network and IO

Picture CN1

"PWR" (CN1) - Power input. M12 - 5pin male connector

Signal name	Description	Pin no.	JVL Cable WI1000-M12F5TxxN	Isolation group
P+	Main supply +7-72VDC. Connect with pin 2 *	1	Brown	1
P+	Main supply +7-72VDC. Connect with pin 1 *	2	White	1
P-	Main supply ground. Connect with pin 5 *	3	Blue	1
CVI	Control and user output supply +7-30VDC. **DO NOT connect >30V to this terminal!**	4	Black	1
P-	Main supply ground. Connect with pin 3 *	5	Grey	1

* Note: P+ and P- are each available at 2 terminals. Make sure that both terminals are connected in order to split the supply current in 2 terminals and thereby avoid an overload of the connector.

Picture CN2

"CN2" - RS485 IN/OUT. M12 - 5pin female connector.

Signal name	Description	Pin no.	JVL Cable WI1000-M12 M5TxxN	Isolation group (See note)
RS485: B0-	RS485 interface. Leave open if unused	1	Brown	1
RS485: A0+	RS485 interface. Leave open if unused	2	White	1
RS485: B0-	RS485 interface. Leave open if unused	3	Blue	1
RS485: A0+	RS485 interface. Leave open if unused	4	Black	1
GND	Ground intended to be used together with the other signals in this connector	5	Grey	1

MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

Connector information

Picture CN3

"CN3" - RS485 + I/O connector - M12 - 8pin female connector.

Signal name	Description	Pin no.	JVL Cable WI1000-M12 M8TxxN	Isolation group (See note)
IO1	I/O channel 1. Can be used as input or output	1	White	1
IO2	I/O channel 2. Can be used as input or output	2	Brown	1
IO3	I/O channel 3. Can be used as input or output	3	Green	1
GND	Ground intended to be used together with the other signals in this connector	4	Yellow	1
RS485: B0-	RS485 interface. Leave open if unused	5	Grey	1
RS485: A0+	RS485 interface. Leave open if unused	6	Pink	1
IO4	I/O channel 4. Can be used as input or output	7	Blue	1
CVO	Supply output. Connected internally to the **CVI** terminal in the PWR connector. Max 700 mA. **DO NOT connect >30V to this terminal!** USB interface. Supply input 5VDC nominal	8	Red	1

Picture CN4

"CN4" - RS485 + I/O + Backup (option) **connector - M12 - 17pin female connector**

Signal name	Description	Pin no.	JVL Cable WI1009M12 M17TxxN	Isolation group (see note)
IO1	I/O channel 1. Can be used as input or output	1	Brown	1
GND	Ground intended to be used together with the other signals in this connector	2	Blue	1
IO2	I/O channel 2. Can be used as input or output	3	White	1
IO3	I/O channel 3. Can be used as input or output	4	Green	1
RS422: B1-	RS422 I/O terminal B-	5	Pink	1
IO4	I/O channel 4. Can be used as input or output	6	Yellow	1
RS422: A1-	RS422 I/O terminal A-	7	Black	1
RS422: B1+	RS422 I/O terminal B+	8	Grey	1
CVO	Supply output. Connected internally to the **CVI** terminal in the PWR connector. **DO NOT connect >30V to this terminal!**	9	Red	1
RS422: A1+	RS422 I/O terminal A+	10	Violet	1
IO5	I/O channel 5. Can be used as input or output	11	Grey/pink	1
IO6	I/O channel 6. Can be used as input or output	12	Red/blue	1
IO7	I/O channel 7. Can be used as input or output	13	White/Green	1
IO8	I/O channel 8. Can be used as input or output	14	Brown/Green	1
RS485: B0-	RS485 interface. Leave open if unused	15	White/Yellow	1
EXTBACKUP	Only for motors with the -H3 or -H4 option (abs. multiturn encoder). This terminal can be connected to an external supply. **Connect to ground (GND) if not used.**	16	Yellow/brown	1
RS485: A0+	RS485 interface. Leave open if unused	17	White/grey	1

* Note: Isolation group indicate which terminals/circuits that a galvanic connected to each other. In other words group 1, 2, 3 and 4 are all fully independently isolated from each other. Group 1 correspond to the housing of the motor which may also be connected to earth via the DC or AC input supply.

Connector STO No

Picture STO Con -

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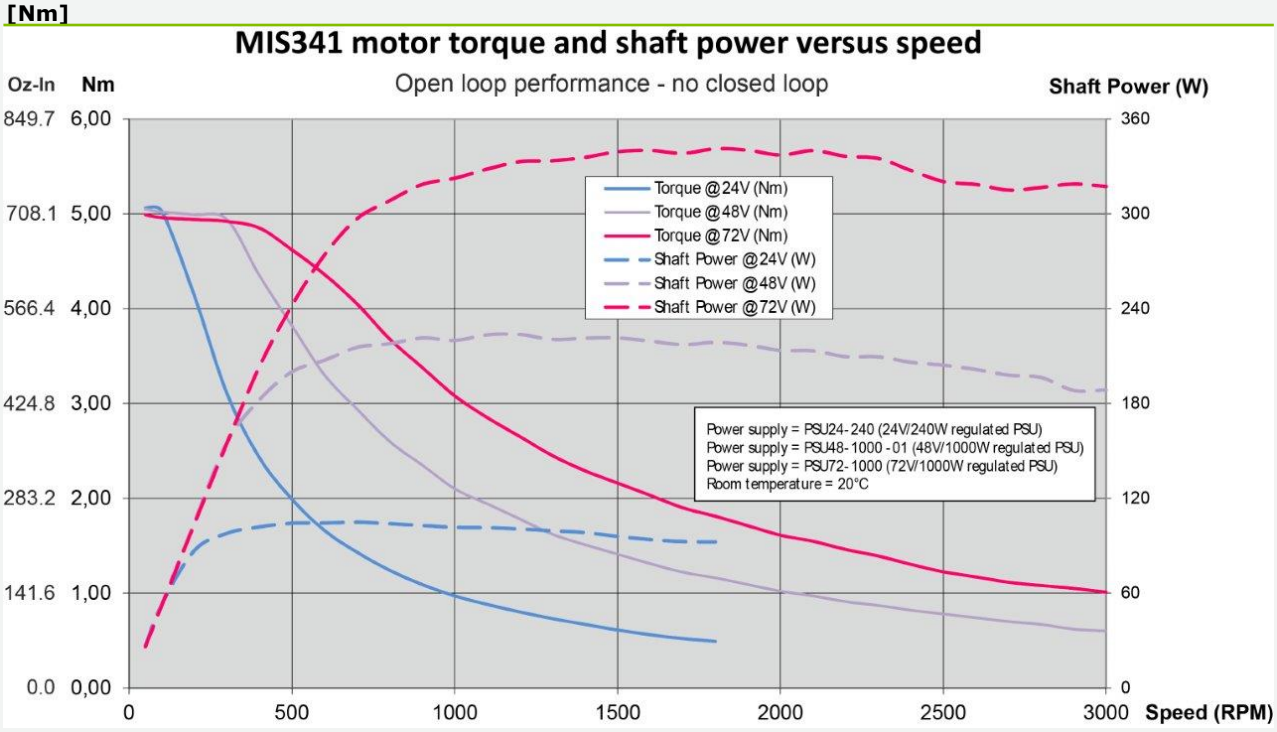
MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

Torque, force and Power information

Supply Volt 1 [V]	12	**Power Peak 1 [W]**	49.82
Supply Volt 2 [V]	24	**Power Peak 2 [W]**	104.77
Supply Volt 3 [V]	48	**Power Peak 3 [W]**	221.37
Supply Volt 4 [V]	72	**Power Peak 4 [W]**	322.37
Holding torque [Nm]	6.1	**Running torque [Nm]**	6.1
Detent torque [Nm]			



MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

Electrical information

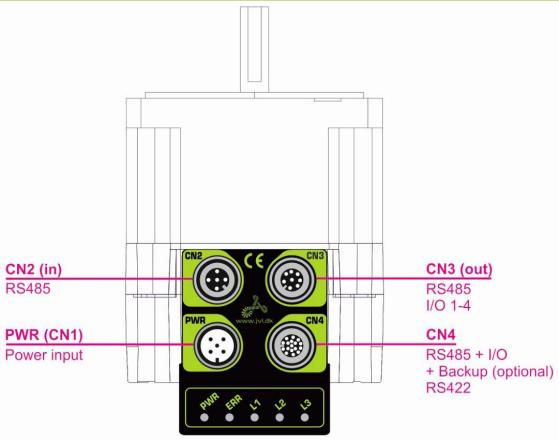
Main supply [V]	12-72	**Main supply Min-Max [V]**	7-90
Main supply UL [V]	12-60	**Main supply Max UL [V]**	7-60
Rated motor current [A]	7.6	**Control voltage (CVI/O+) [VDC]**	7-28
Control Voltage (CVI) Min-Max [VDC]	7-32	**Control Voltage for UL recognized**	7–30 VDC 150 mA + max 500 mA for user outputs
CVI current wo Ethernet and output (12/24VDC) [mA]	165/95	**Current Ethernet option (12/24VDC) [mA]**	-
Current brake option [mA]	-	**Current for 1 Dig. output - max [mA]**	350
Max current CVI [A]			
Encoder type	H2 Incremental/abs_singleturn	**Encoder Resolution (H2)**	H2 - 4096 Singleturn AbsEnc - Semi multiturn
Encoder Resolution (H3)	-	**Encoder revolutions**	+/-5242
PLC no. of DI/DO/AI	8	**Analogue voltage**	0-5VDC 12bit
Dig. Input impedans	27 Kohm	**Counter frequency max**	12MHz
Standard used		**Standard used 2**	
Resistance [Ohm]		**Induction [mH]**	

MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

Communication information

Software	MacTalk	**Connector 2 RS485**	Yes
Connectivity: Without module	RS485	**Connector 3 RS485**	
		Connector 4 RS485	Yes

Motor connectors



MIS34xC - Q5

RS485 serial communication in network and IO

e-PLC Files	**Ethernet, PLC demo files**

MIS341C12Q5H285 Int.Step 12-72VDC, RS485, EncC-L

Cable information

Item number Item description	Mount on	Cable con 1 +Con 1 angle Cable con 2 +Con 2 angle	Cable application Cable flexibilty	Wires no totally Wire [mm2]	Cable length [m] Connector 1 LED
WI1000-M12F5T02N M12 Shl Cable 2m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	2 No
WI1000-M12F5T05N M12 Shl Cable 5m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	5 No
WI1000-M12F5T1.2N M12 Shl Cable 1.2m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	1.2 No
WI1000-M12F5T10N M12 Shl Cable 10m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	10 No
WI1000-M12F5T10R M12 Shl Cable 10m 5 pin Fem 0°, Power, High-flex	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Cable Chains - 2D	5 0.34	10 No
WI1000-M12F5T20N M12 Shl Cable 20m 5 pin Fem 0°, Power	Connector 1	M12 5-pin female A-coded - 180° Straight Open Ended - n/a	Power/Motor/com Standard	5 0.32	20 No
WI1000-M12F5TLT0185 M12 shl Cable 3m 5 pin female 0°,PW SPEC	Connector 1	M12 5-pin female A-coded - 180° Straight - n/a	Power/Motor/com Standard	5 0.32	3 No
WI1000-M12F5TM5T1.5N M12 A Code Shl Cable 1.5m 5 pin Female/Male 0° Pow	Connector 1	M12 5-pin female A-coded - 180° Straight - n/a	Power/Motor/com		1.5 No
WI1000-M12F5V05N M12 Shl Cable 5m 5 pin Fem 90°, Power	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	5 No
WI1000-M12F5V05R M12 Shl Cable 5m 5 pin Fem 90°, Power, 3D	Connector 1	M12 5-pin female A-coded - 90° Angled - n/a	Power/Motor/com		5 No
WI1000-M12F5V10N M12 Shl Cable 10 m 5 pin Fem 90°, Power	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	10 No
WI1000-M12F5V20N M12 Shl Cable 20m 5 pin Fem 90°, Power	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	20 No
WI1000-M12F5W05N M12 Shl Cable 5m LED 5p Fem 90°, Power <50V	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	5 LED
WI1000-M12F5W10N M12 Shl Cable 10m LED 5 p Fem 90°, Power <50V	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	10 LED
WI1000-M12F5W15N M12 Shl Cable 15m LED 5 p Fem 90°, Power <50V	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	15 LED
WI1000-M12F5W20N M12 Shl Cable 20m LED 5 p Fem 90°, Power <50V	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	5 0.32	20 LED
WI1000-M12F5WF5W20N M12 shl cab 20m LED 5 pin female 90',Pow <50V	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin female A-coded - n/a	Power/Motor/com Standard	5 0.32	20 LED
WI1005-M12F5TF5T03P M12 Cab 3m, 5p Fem - 5p Fem twistedPair	Connector 1	M12 5-pin female A-coded - 180° Straight M12 5-pin female A-coded - n/a	Communication	0.32	3 No
WI1005-M12F5TM5T2.0N M12 cable 2m, 5 pin female - 5pin male	Connector 1	M12 5-pin female A-coded - 180° Straight M12 5-pin male A-coded - n/a	Communication Standard	0.32	2 No
WI1008-M12F5AG1 M12 Con 5p Fem 90° Spring Ø4-8mm cable	Connector 1	M12 5-pin female A-coded - 90° Angled Open Ended - n/a	CANopen/DeviceNet		20 No
WI1008-M12F5SS1 M12 Con 5p Fem 0° Solder assembly	Connector 1	M12 5-pin female A-coded - 180° Straight - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1008-M12F5TG1 M12 Con 5p Fem 0° Spring Shield+B222	Connector 1	M12 5-pin female A-coded - 180° Straight - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1008-M12F5VG1 M12 Con 5p Fem 90° Spring Shield	Connector 1	M12 5-pin female A-coded - 90° Angled - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1025-M12F5AF5AM5A M12 T-Con 2x Fem 5 p + 1x Male 5 p	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin female A-coded - n/a	Standard	5 0.32	No
WI1025-M12F5AM5A M12 Cabinet Feed-through F5p-M5p	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin male A-coded - n/a	Standard	5 0.32	No
WI1025-M12F5AM5AF5A M12 T-Con Fem 5p+ Male 5p + Fem 5p NoSh	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin male A-coded - n/a	Standard	5 0.32	No
WI1025-M12F5VM5VF5V M12 Shl Y-Con 1xMale 5p + 2x Fem 5p CAN	Connector 1	M12 5-pin female A-coded - 90° Angled M12 5-pin male A-coded CAN - n/a	Standard	5 0.32	No
WI1000-M12M5A05N	Connector 2	M12 5-pin male A-coded - 90° Angled	Power/Motor/com	5	5

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Cable information

Item number Item description	Mount on	Cable con 1 +Con 1 angle Cable con 2 +Con 2 angle	Cable application Cable flexibilty	Wires no totally Wire [mm2]	Cable length [m] Connector 1 LED
M12 cable 5m, 5 pin male 90°, COM2/ B4		Open Ended - n/a	Standard	0.32	No
WI1000-M12M5T05N	Connector 2	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	5
M12 Shl Cable 5m 5 p Male 0°, COM		Open Ended - n/a	Standard	0.32	No
WI1000-M12M5T20N	Connector 2	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	20
M12 Shl Cable 20m 5 p Male 0°, COM		Open Ended - n/a	Standard	0.32	No
WI1000-M12M5TF5T.5N	Connector 2	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	0.5
M12 Shl Cable .5m 5p Male 0° to 5p Fem 0		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1000-M12M5TF5T01N	Connector 2	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	1
M12 Shl Cable 1m 5p Male 0° to 5p Fem 0°		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1000-M12M5TF5T02T	Connector 2	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	2
M12 Cable 2m 5pM 0° to 5pF 0° twisted, power c		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1000-M12M5TF5T03N	Connector 2	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	3
M12 Shl Cable 3m 5p Male 0° to 5p Fem 0°		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1000-M12M5V05N	Connector 2	M12 5-pin male A-coded - 90° Angled	Power/Motor/com	5	5
M12 Shl Cable 5m 5 p Male 90°, COM		Open Ended - n/a	Standard	0.32	No
WI1000-M12M5V20N	Connector 2	M12 5-pin male A-coded - 90° Angled	Power/Motor/com	5	20
M12 Shl Cable 20m 5 p Male 90°, COM		Open Ended - n/a	Standard	0.32	No
WI1005-M12M5STR6	Connector 2	M12 5-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 5-pin male A Code Resistor RS485		n/a - n/a	n/a	n/a	No
WI1005-M12M5TF5T.2N	Connector 2	M12 5-pin male A-coded - 180° Straight	Communication		0.2
M12 Cab 0.2m, 5p Mal - 5p Fem, RS485 .Std cable		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1005-M12M5TM5T01N	Connector 2	M12 5-pin male A-coded - 180° Straight	Communication		1
M12 Cab 1m, 5p Mal - 5p Mal, RS485. Std cable		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1008-M12M5AC1	Connector 2	M12 5-pin male A-coded - 90° Angled	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Male 90° Screw PG7 for cable		- n/a	n/a	n/a	No
WI1008-M12M5AG1	Connector 2	M12 5-pin male A-coded - 90° Angled	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Male 90° Spring Ø4-8mm cable		- n/a	n/a	n/a	No
WI1008-M12M5SC1	Connector 2	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Male 0° Screw PG7 cable		- n/a	n/a	n/a	No
WI1008-M12M5SS1	Connector 2	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Male 0° Solder assembly		- n/a	n/a	n/a	No
WI1008-M12M5STR4	Connector 2	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 5-pin male A Code Resistor CAN		- n/a	n/a	n/a	No
WI1008-M12M5TC1	Connector 2	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Male A-coded Screw Shield		- n/a	n/a	n/a	No
WI1008-M12M5TG1	Connector 2	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Male 0° Spring Shield		- n/a	n/a	n/a	No
WI1008-M12M5VG1	Connector 2	M12 5-pin male A-coded - 90° Angled	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Male 90° Spring Shield		- n/a	n/a	n/a	No
WI1025-M12M5AF5AF8A	Connector 2	M12 5-pin male A-coded - 90° Angled		5	
M12 T-Con Male 5 p + Fem 5 p + 1 Fem 8 p		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1025-M12M5VM5VF5V	Connector 2	M12 5-pin male A-coded - 90° Angled		5	
M12 Shl Y-Con 2xMale 5p + 1xFem 5p RS485		M12 5-pin male A-coded - n/a	Standard	0.32	No
RS485-M12-1-5-5	Connector 2 RS485	-			
RS485 M12-5pin DSub, 5m, straight		-			
RS485-M12-6-3-5	Connector 2 RS485	-			
RS485 Prg Cable, 6xSMC75/MIS, 3m-0.3m		-			
WI1000-M12M8T02N	Connector 3	M12 8-pin male A-coded - 180° Straight	Power/Motor/com	8	2
M12 Shl Cable 2m 8 p Male 0° COM1/Ext IO		Open Ended - n/a	Standard	0.32	No
WI1000-M12M8T05N	Connector 3	M12 8-pin male A-coded - 180° Straight	Power/Motor/com	8	5
M12 Shl Cable 5m 8 p Male 0° COM1/Ext IO		Open Ended - n/a	Standard	0.32	No
WI1000-M12M8T20N	Connector 3	M12 8-pin male A-coded - 180° Straight	Power/Motor/com	8	20
M12 Shl Cable 20m 8 p Male 0° COM1/ExtIO		Open Ended - n/a	Standard	0.32	No
WI1000-M12M8T20R	Connector 3	M12 8-pin male A-coded - 180° Straight	Power/Motor/com		20
M12 Shl Cable 20m 8 p Male 0° 2D cable chain		- n/a			No

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Cable information

Item number Item description	Mount on	Cable con 1 +Con 1 angle Cable con 2 +Con 2 angle	Cable application Cable flexibilty	Wires no totally Wire [mm2]	Cable length [m] Connector 1 LED
WI1000-M12M8TF4LT186 M12 shl cable5m, M12 M8, M8 F4 0° IO	Connector 3	M12 8-pin male A-coded - 180° Straight M12 4-pin female A-coded - n/a	Power/Motor/com	8 0.32	5 No
WI1000-M12M8TLT0184 M12 shl cable5m, 8 pin male 0° IO SPEC	Connector 3	M12 8-pin male A-coded - 180° Straight M12 4-pin female A-coded - n/a	Power/Motor/com	8 0.32	5 No
WI1000-M12M8V05N M12 Shl Cable 5m 8 p Mal 90° COM1/ExtIO	Connector 3	M12 8-pin male A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	8 0.2	5 No
WI1000-M12M8V20N M12 Shl Cable 20m 8 p Mal 90° COM1/ExtIO	Connector 3	M12 8-pin male A-coded - 90° Angled Open Ended - n/a	Power/Motor/com Standard	8 0.2	20 No
WI1005-M12M8QM5V.3N M12 Shl Cab 0.3m 8p Mal 5p Mal 90° RS485 twisted	Connector 3	M12 8-pin male A-coded - 90° Angled M12 5-pin male A-coded - n/a	Communication Standard	 0.32	0.3 No
WI1005-M12M8S10N M12 Shl Cable 10m, 8 p Male MAC00-B41 twisted	Connector 3	M12 8-pin male A-coded - 180° Straight Open Ended - n/a	Communication Standard	8 0.32	10 No
WI1005-M12M8STR5 M12 8-pin male A Code Resistor RS485	Connector 3	M12 8-pin male A-coded - 180° Straight n/a - n/a	Communication n/a	n/a 0.32	Connector No
WI1005-M12M8TF8T01N M12 Shl Cab 1m 8p Male 0° to 8p Female 0° 2x4pair	Connector 3	M12 8-pin male A-coded - 180° Straight M12 8-pin female A-coded - n/a	Communication Standard	8 0.32	1 No
WI1005-M12M8TF8T20N M12 Shl Cab 20m 8p Male 8p Female 0° 2x4p twisted	Connector 3	M12 8-pin male A-coded - 180° Straight M12 8-pin female A-coded - n/a	Communication	8 0.32	20 No
WI1005-M12M8TM5T.3N M12 Shl Cab 0,3 m 8p Male 5p Male 0° RS485 twisted	Connector 3	M12 8-pin male A-coded - 180° Straight M12 5-pin male A-coded - n/a	Communication Standard	5 0.32	0.3 No
WI1005-M12M8TM5T.5N M12 Shl Cab 0,5 m 8p Male 5p Male 0° RS485 twisted	Connector 3	M12 8-pin male A-coded - 180° Straight M12 5-pin male A-coded - n/a	Communication Standard	5 0.32	0.5 No
WI1005-M12M8TM5T05N M12 Shl Cab 5m 8p Male 5p Male 0° RS485 twisted	Connector 3	M12 8-pin male A-coded - 180° Straight M12 5-pin male A-coded - n/a	Communication Standard	5 0.32	5 No
WI1005-M12M8VM5V.5N M12 Shl Cab 0.5m 8pMale 5pMale 90° RS485 twisted	Connector 3	M12 8-pin male A-coded - 90° Angled M12 5-pin male A-coded - n/a	Communication Standard	5 0.32	0,5 No
WI1005-M12M8VM5V03N M12 Shl Cab3m 8p Male 5p Male 90° RS485 twisted	Connector 3	M12 8-pin male A-coded - 90° Angled M12 5-pin male A-coded - n/a	Communication Standard	5 0.32	3 No
WI1005-M12M8VM5V10N M12 Shl Cab10m 8p Male 5p Male 90° RS485 twisted	Connector 3	M12 8-pin male A-coded - 90° Angled M12 5-pin male A-coded - n/a	Communication Standard	5 0.32	10 No
WI1005-M12M8VM5V20N M12 Shl Cab20m 8p Male 5p Male 90° RS485 twisted	Connector 3	M12 8-pin male A-coded - 90° Angled M12 5-pin male A-coded - n/a	Communication Standard	5 0.32	20 No
WI1008-M12M8SC1 M12 Con 8p Male 0° Screw Ø4-8mm cable	Connector 3	M12 8-pin male A-coded - 180° Straight - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1008-M12M8SS1 M12 Con 8p Male 0° Solder assembly	Connector 3	M12 8-pin male A-coded - 180° Straight - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1008-M12M8TC1 M12 Con 8p Male 0° Screw Shield	Connector 3	M12 8-pin male A-coded - 180° Straight - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1008-M12M8TS1 M12 Con 8p Male 0° Solder Shield	Connector 3	M12 8-pin male A-coded - 180° Straight - n/a	CANopen/DeviceNet n/a	n/a n/a	Connector No
WI1009-M12M8Q1.2N M12 Shl Cable 1.2m 8p Male 90° 4P twisted	Connector 3	M12 8-pin male A-coded - 90° Angled Open Ended - n/a	Basic I/O, Com Standard	8 0.32	1.2 No
WI1009-M12M8V05N M12 Shl Cable 5m 8 p Male 90° 4P twisted	Connector 3	M12 8-pin male A-coded - 90° Angled Open Ended - n/a	Basic I/O, Com Standard	8 0.32	5 No
WI1009-M12M8V20N M12 Shl Cable 20m 8 p Male 90° 4P twisted	Connector 3	M12 8-pin male A-coded - 90° Angled Open Ended - n/a	Basic I/O, Com Standard	8 0.32	20 No
WI1005-M12M17SAA01 M12 17-pin male Axis 1 Without wire	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication n/a	n/a n/a	Connector No
WI1005-M12M17SAA01W M12 17-pin male Axis 1, with wire 1,2m	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication	n/a n/a	Connector No
WI1005-M12M17SAA02 M12 17-pin male Axis 2 Without wire	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication n/a	n/a n/a	Connector No
WI1005-M12M17SAA03 M12 17-pin male Axis 3 Without wire	Connector 4	M12 17-pin male A-coded - 180° Straight n/a - n/a	Communication n/a	n/a n/a	Connector No
WI1005-M12M17SAA04	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector

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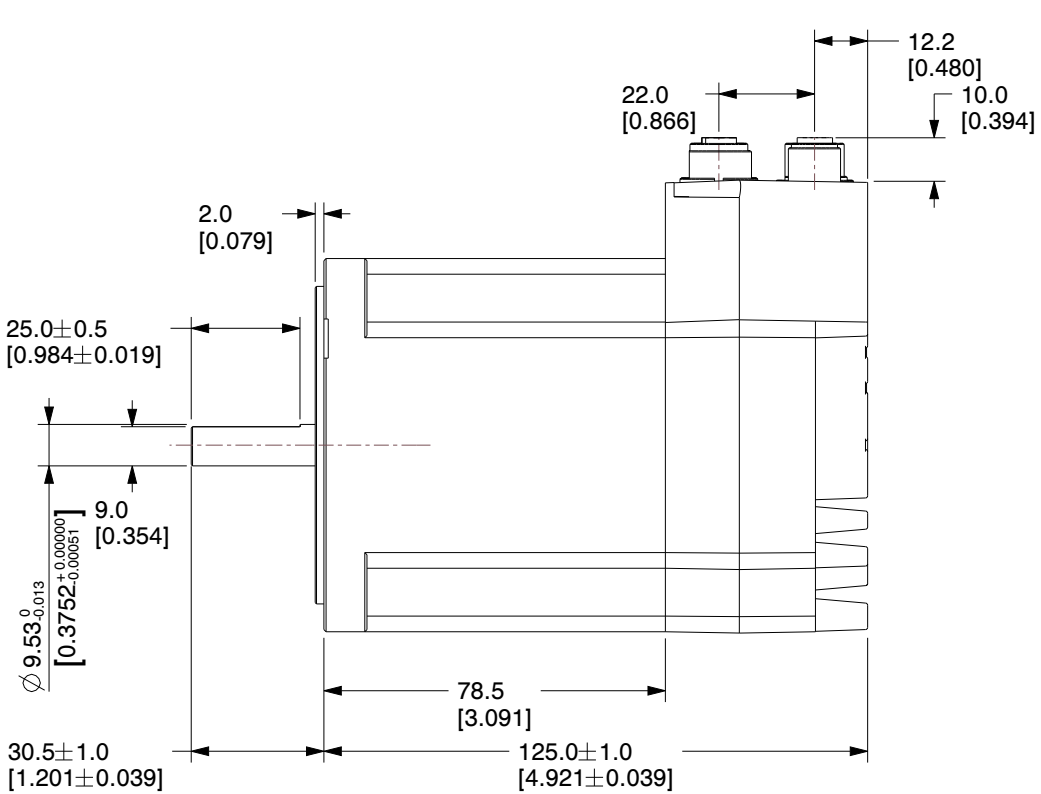
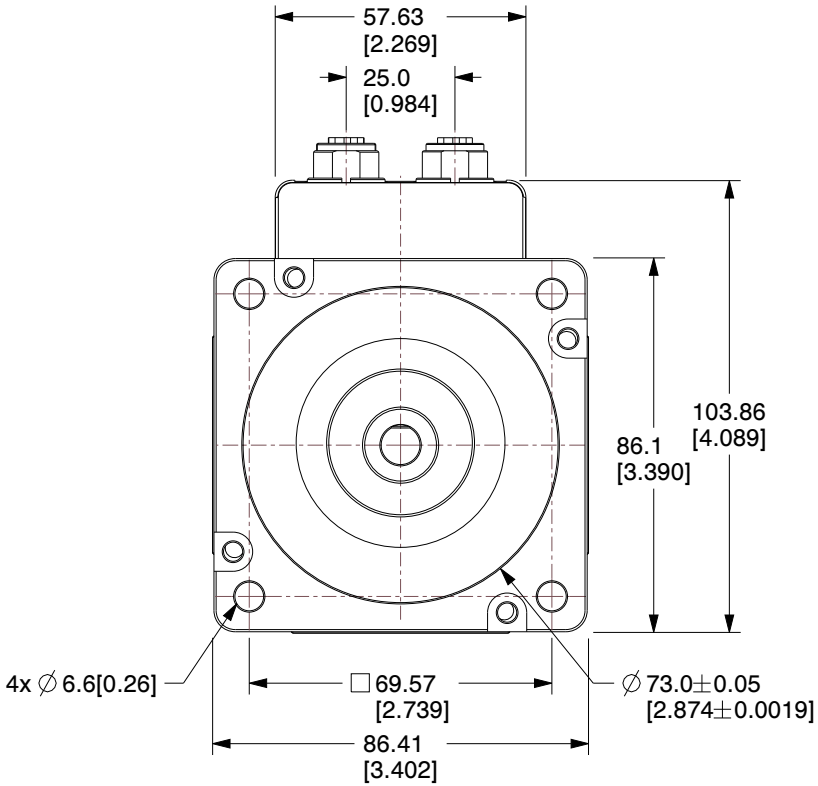
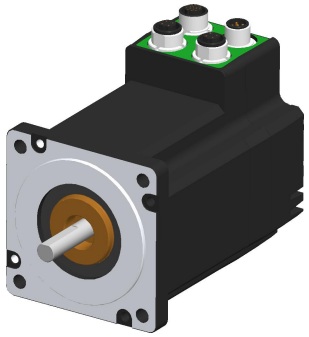
Cable information

Item number Item description	Mount on	Cable con 1 +Con 1 angle Cable con 2 +Con 2 angle	Cable application Cable flexibilty	Wires no totally Wire [mm2]	Cable length [m] Connector 1 LED
M12 17-pin male Axis 4 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA05	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 5 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA06	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 6 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA06W	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 6 with wire 1,2m		n/a - n/a		n/a	No
WI1005-M12M17SAA07	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 7 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA08	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 8 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA09	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 9 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA10	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 10 Without wire		n/a - n/a	n/a	n/a	No
WI1008-M12M17SR1	Connector 4	M12 17-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 17p Male 0° Metal housing 5.4-8.2mm cable		- n/a	n/a	n/a	No
WI1009-M12M17T01N	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	1
M12 Shl Cable 1m 17p Mal 0° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1009-M12M17T05N	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	5
M12 Shl Cable 5m 17p Mal 0° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1009-M12M17T10R	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	5
M12 Shl Cable 10m 17p Mal 0° MISxx,Ex41 twisted		Open Ended - n/a	Robotic - 3D	0.061	No
WI1009-M12M17T20N	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	20
M12 Shl Cable 20m 17p Mal 0° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1009-M12M17TF17T.5	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	0.5
M12 Shl Cable.5m Male17p0°-Female 17p0° twist pair		M12 17-pin female A-coded - n/a	Standard	0.061	No
WI1009-M12M17TF17T01	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	1
M12 Shl Cable 1m Male17p0°-Female 17p0° twist pair		M12 17-pin female A-coded - n/a	Standard	0.061	No
WI1009-M12M17TF17T02	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	2
M12 Shl Cable 2m Male17p0°-Female 17p0° twist pair		M12 17-pin female A-coded - n/a	Standard	0.061	No
WI1009-M12M17TF17T04	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	4
M12 Shl Cable 4m Male17p0°-Female 17p0° twist pair		M12 17-pin female A-coded - n/a	Standard	0.061	No
WI1009-M12M17V05N	Connector 4	M12 17-pin male A-coded - 90° Angled	Basic I/O, Com	17	5
M12 Shl Cable 5m 17p Mal 90° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1009-M12M17V05R	Connector 4	M12 17-pin male A-coded - 90° Angled	Basic I/O, Com		5
M12 Shl Cable 5m 17p Mal 90° MISxx,Ex41 twisted		- n/a	Robotic - 3D		No
WI1009-M12M17V10N	Connector 4	M12 17-pin male A-coded - 90° Angled	Basic I/O, Com	17	10
M12 Shl Cable 10m 17p Mal 90° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1013-M12M17TF4T.4N	Connector 4	M12 17-pin male A-coded - 180° Straight		4	0.45
M12 17pM, 0.45m M8-4pF Shl for MAB MIS		M08 4-pin female - n/a	Standard	0.13	No
WI1013-M12M17TF4TXAA	Connector 4	M12 17-pin male A-coded - 180° Straight			0.45/2
M12 17pM, 0.45m M8-4pF Shl for MAB + 2m cable MIS		M08 4-pin female - n/a	Standard		No
RS485-M12-1-5-17	Connector 4 RS485	-			
RS485 M12-17pin DSub, 5m v1.1		-			
RS232-USB-M12M5M8M17	RS232 converter M5M8M17	-			
USB to RS232 isolated adaptor, M12 Male		-			
RS485-USB-M12M5M8M17	RS485 converter M5M8M17	-			
USB to RS485 isolated adaptor, M12 Male		-			







NOTES:
1. Operation Modes : Passive, Position, Gear, Velocity, Zero search mode type 1, type 2 and torque, Cyclic Synchronous Position mode (CSP)
2. Tolerance for torque and power is ±10%.
3. Shaft - AISI 303 Stainless steel.
4. Encoder Type: Internal, magnetic, absolute 1 rev. Closed loop ready. Resolution per rev.: 4096 counts / 1024 lines (quadrature output).

JVL A/S
Bregnerødvej 127
DK-3460 Birkerød
Denmark
JVL
www.jvl.dk

PART NUMBER:

MIS341C12Q5H285

PART DESCRIPTION:

Integrated Stepper Motor

A4	SCALE	NTS
	UNIT	MM [Inch]