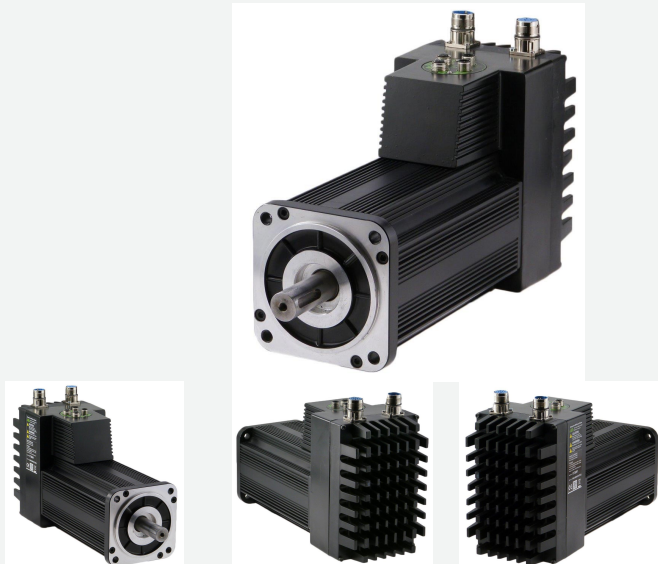




MAC3000-D2-FAAL

Int.ServoAC 3000WS3 9.55Nm IP55L Abs



General information

Description

Int.ServoAC 3000WS3 9.55Nm IP55L Abs , WxHxL: 132x205x301 mm. 3x 400-480 VAC and 24 VDC. Power cable WP340x. 3000 RPM. 9.55 Nm RMS / 28.7 Nm Peak, IP55, Single 8192 CPR / Absolute multiturn ±8178 revs, Color: Black, Ø24x58 mm keyway 8x35 mm

Manufacture	JVL	Motor type	Integr. AC-servo - Rotating
Motor power [W]	3000	Power Peak [W]	9000
Duty Cycle	S3	Max Duty Cycle [%]	67
Continuous Torque	9.55	Peak torque [Nm]	28.7
Main supply [V]	3x400	Voltage type - Main	AC
Speed [Rpm]	3000	Connectivity: Without module	RS232
Encoder type	Abs. Multiturn Encoder +/- 8178 rev.	Encoder [Counts/rev]	8192
Fan mounted	No	Brake	No
Integrated gear	No	Gear ratio	-
Integrated PLC	Yes	STO connector	No
Approval TÜV - STO	No	Approval - UL	No
PLC no. of AIN	2	PLC no. of DI	-
PLC no. of DIO	-	PLC no. of DO	2
Multifunction IOs	2		
Flange size	132x132	Protection house	IP55
Shaft size - Front [mm]	24.00mm	Protection shaft	IP55
Color	Black	Paint type	



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General information

Ambient Temperature range [°C]:

Maximum Installation Altitude [m]:

Max. Amb. Temperature range - Torque derating:

- Power Derating every 1000m over 1000m [%]:

Weight net [kg] 15.25

Country Of Origin DK

Weight gross [kg] 16.23

Tariff no 85015220

Tariff no US



MAC3000-D2-FAAL

Int.ServoAC 3000WS3 9.55Nm IP55L Abs

Mechanical information

Motor type	Integr. AC-servo - Rotating	Color	Black
Rotor inertia [kgcm²]	26.35	Max inertia factor	20
Encoder type	Abs. Multiturn Encoder +/- 8178 rev.	Encoder [Counts/rev]	8192
Precision Motor - Absolute [Deg -/+]	0.04	Precision Motor - Max Load [Deg -/+]	
Precision Motor - Repeatability [Deg -/+]	0.04		
Brake	No	Brake - Go ON time [ms]	-
Brake Holding torque [Nm]	-	Brake - Go OFF time [ms]	-
Radial load [N]	900	Radial load distance [mm]	
Axial load [N]	450		
Axial play [mm]	+/-0.05	Axial play force [N]	xxx
Front bearing type	xxx	Rear bearing type	xxx
Integrated gear	No	Gear ratio	-
Gear efficiency [%]	< -	Gear backlash [ArcMin]	-
Motor length [mm]	301.0	Motor width [mm]	134.0
Motor height [mm]	204.5	Protection house	IP55
Customer Sealing	Standard		
Flange size	132x132	Mounting holes front [mm]	9.0
Motor diameter center front [mm]	110.0	Bolt circle diameter front [mm]	145.0
Flange material	Aluminium	Flange Thickness [mm]	
Shaft Key included	Key included on shaft	Shaft Key Dimension	8x8x35
Shaft size - Front [mm]	24.00mm	Protection shaft	IP55
Shaft length Front [mm]	58.0	Shaft material	Steel
Approval - ROHS-3	Yes	Approval - UL	No
Approval TÜV - STO	No	Approval - ATEX	No
CAD 2D [PDF]	Download	CAD 3D [STEP]	Download
CAD 2D [DWG]	No	CAD 3D [DWG]	No

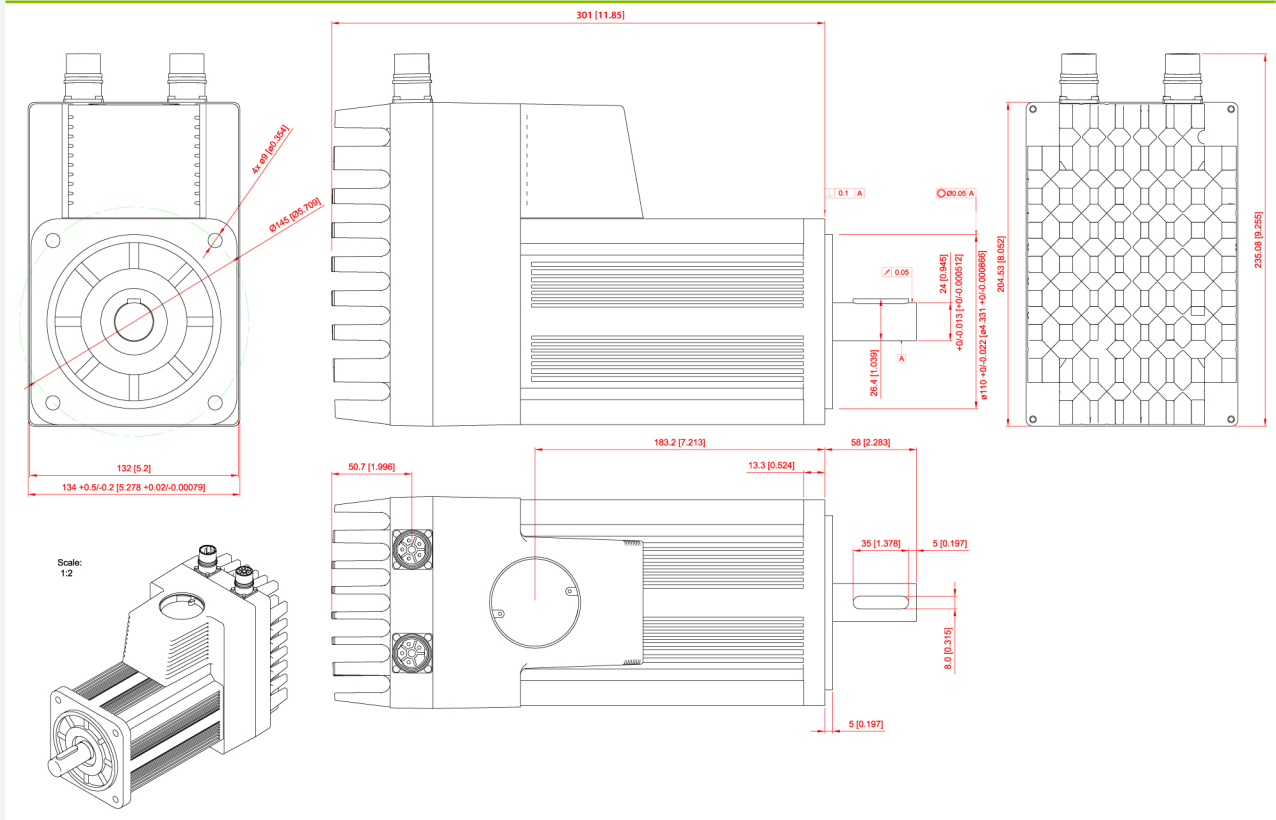


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Mechanical information

CAD 3D [EASM]	No	CAD 3D [IGES]	Download
Datasheet - pdf	Yes	User Manual	Download
REACH SVHC document	Download	Low voltage Directive	LVD conformity with EU standard: EN 61800-3
No Dual Use	Read more here		



Shaft Seal

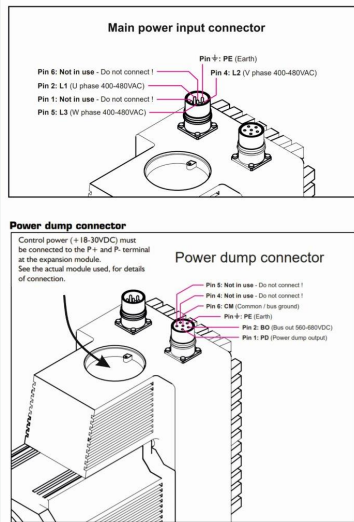


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Int.ServoAC 3000WS3 9.55Nm IP55L Abs

Connector information

Motor connectors



Connector Power	M23 6-pin male	Connector Power Supplier
Connector Power direction	Straight	
PDO Connector Type	M23 6-pin female	Connector PDO Supplier
Connector STO	No	
Expansion connector	Generation 1 and 2	

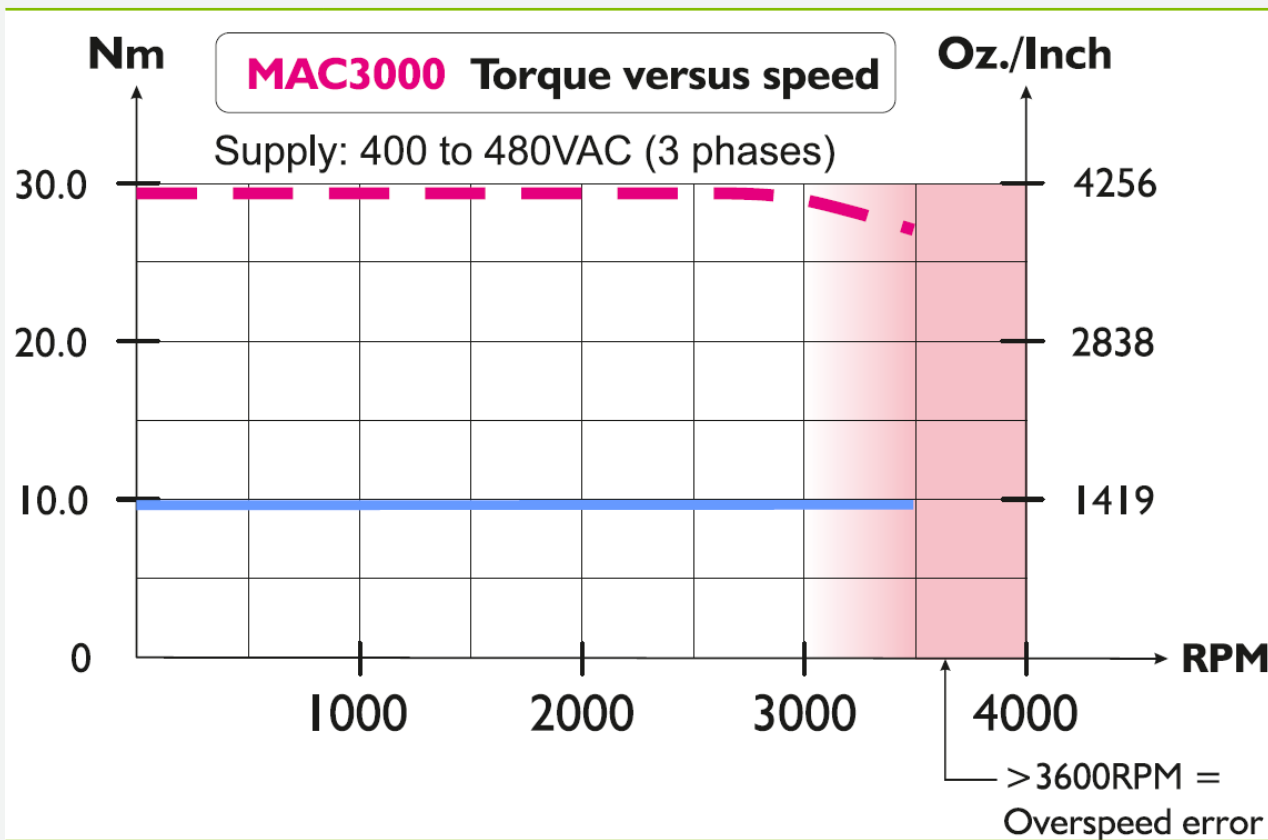


MAC3000-D2-FAAL

Int.ServoAC 3000WS3 9.55Nm IP55L Abs

Torque, force and Power information

RMS torque [Nm]	9.55	Peak torque [Nm]	28.7
Supply Volt 1 [V]		Velocity max 1 [Rpm]	
Supply Volt 2 [V]		Velocity max 2 [Rpm]	
Supply Volt 3 [V]	3x400	Velocity max 3 [Rpm]	3600
Supply Volt 4 [V]		Velocity max 4 [Rpm]	





MAC3000-D2-FAAL

Int.ServoAC 3000WS3 9.55Nm IP55L Abs

Electrical information

Main supply [V]	3x400	Main supply Min-Max [V]	400-550
Voltage type - Main	AC	Main Voltage possible	1x230VAC, 3x200VAC, 3x400VAC
Input Voltage Frequency			
Inrush current -Main max [A]		Inrush special	No
Recommended fuse	FRN-R-15 Cooper Bussmann inc.	P- isolated from Earth (Low Voltage ground (P-) isolated from housing)	No
Bus Supply Voltage Min [V]		Busvoltage Overvoltage limit [VDC]	1000V
Power Dump Voltage Active Level [V]		Internal Power-Dump Resistance [Ohm]	150
Internal Power-Dump Power [W]	200	PD connection - Int/Ext	Int/Ext PD in Parallel
External Power-Dump Resistance Minimum value [Ohm]	40	External Power-Dump Max Current [A]	25
Control voltage (CVI/O+) [VDC]	18-28	Control Voltage (CVI) Min-Max [VDC]	18-30
PLC no. of DI	-	PLC no. of DO	2
PLC no. of DIO	-	PLC no. of AIN	2
Analogue voltage	-/+10VDC, -/+11bit	Multifunction IOs	2
Multifunction Nom. level [V]		Multifunction Maximum level [V]	
Multifunction Low trigger level [V]		Multifunction High trigger level [V]	
Resistance [Ohm]		Induction [mH]	
MTBF 100% [Year]	-	MTBF 30% [Year]	-
Temperature Error [°C]			



MAC3000-D2-FAAL

Int.ServoAC 3000WS3 9.55Nm IP55L Abs

Communication information

Software	MacTalk	
Connectivity: Without module	RS232	e-PLC Files
Connectivity: Gen. 1 modules	Yes	
Connectivity: Gen. 2 modules	Yes	

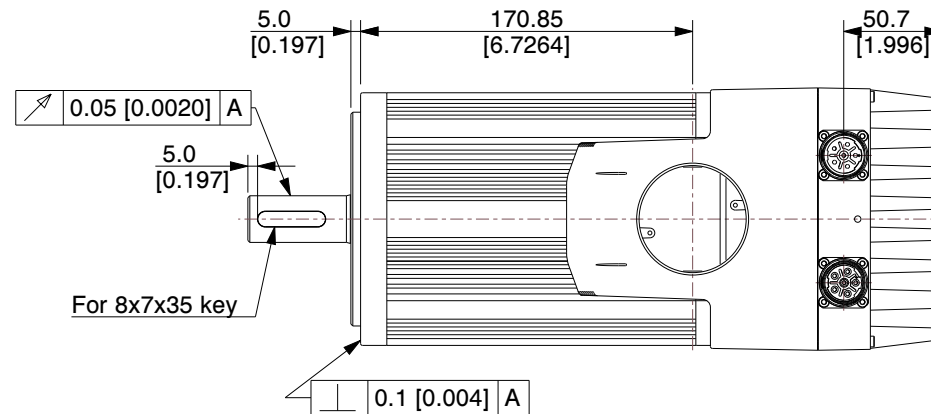
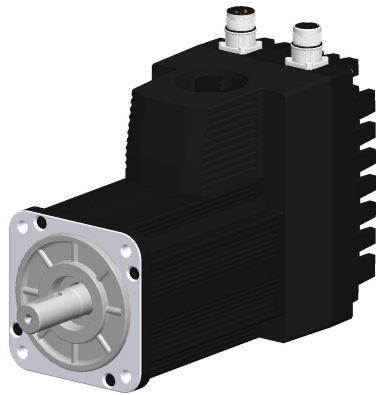
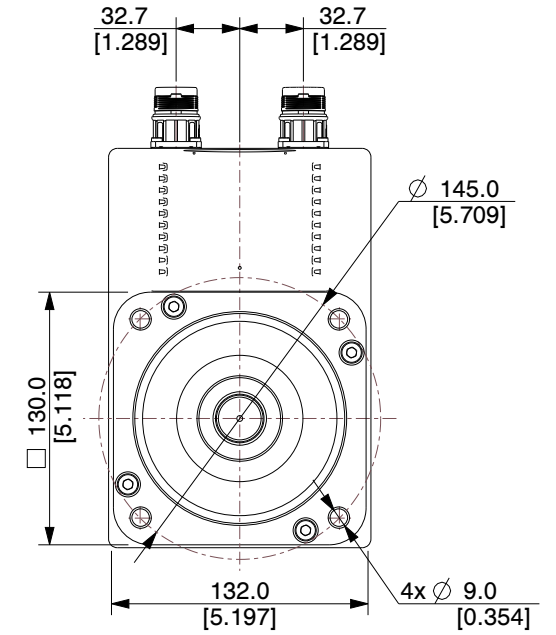
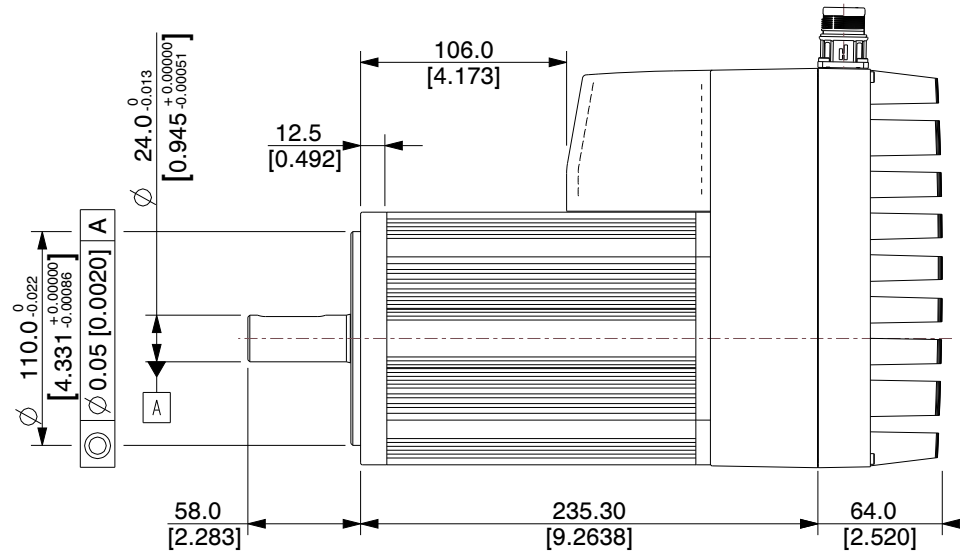
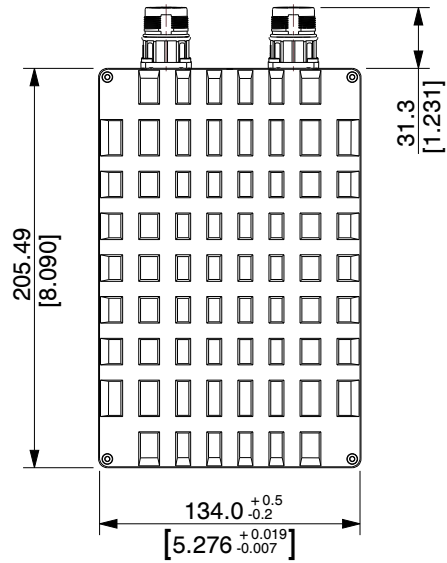


MAC3000-D2-FAAL





Int.ServoAC 3000WS3 9.55Nm IP55L Abs

Cable information

Item number	Mount on	Cable con 1 +Con 1 angle	Cable application	Wires no totally	Cable length [m]
Item description		Cable con 2 +Con 2 angle	Cable flexibility	Wire [mm2]	Connector 1 LED
MAC1530-CONKIT1-PWR	Connector Power	- 0° Straight			Connector
Power supply con kit M23 for MAC1k5/3k		- n/a			n/a
WP3402	Connector Power	M23 6-pin female - 0° Straight	Power	4	2
MAC1K5/3k0 3x400 VAC Power 2m 0°		Open Ended - n/a	Standard	1.50	n/a
WP3405	Connector Power	M23 6-pin female - 0° Straight	Power	4	5
MAC1K5/3k0 3x400 VAC Power 5m 0°		Open Ended - n/a	Standard	1.50	n/a
WP3405-W	Connector Power	M23 6-pin female - 0° Straight	Power	4	5
MAC1K5/3k0 3x400VAC Power 5m 0°, 3D+UL Robot		Open Ended - n/a	Robotic - 3D	1.50	n/a
WP3410	Connector Power	M23 6-pin female - 0° Straight	Power	4	10
MAC1K5/3k0 3x400VAC Power 10m 0°		Open Ended - n/a	Standard	1.50	n/a
WP3410-W	Connector Power	M23 6-pin female - 0° Straight	Power	4	10
MAC1K5/3k0 3x400VAC Power 10m 0°, 3D+UL Robot		Open Ended - n/a	Robotic - 3D	1.50	n/a
WP3420	Connector Power	M23 6-pin female - 0° Straight	Power	4	20
MAC1K5/3k0 3x400VAC Power 20m 0°		Open Ended - n/a	Standard	1.50	n/a
WP3420-W	Connector Power	M23 6-pin female - 0° Straight	Power	4	20
MAC1K5/3k0 3x400VAC Power 20m 0°, 3D+UL Robot		Open Ended - n/a	Robotic - 3D	1.50	n/a



NOTES:
 1. Encoder Type: Absolute multiturn 4096 Rev. Single 8192 CPR

JVL A/S Bregnerødvej 127 DK-3460 Birkerød Denmark			 	
PART NUMBER: <p style="text-align: center;">MAC3000-D2-FAAL</p>				
PART DESCRIPTION: <p style="text-align: center;">Integrated Stepper Motor</p>				
 	A4	SCALE	NTS	
		UNIT	MM [Inch]	
<small>Unless specifically stated otherwise, this drawing is the property of JVL A/S and no feature embodied herein may be disclosed except as previously authorized</small>				