



## MAC800-D2

Int.ServoAC 746WS1 2.38Nm IP55



### General information

<b>Description</b>	Int.ServoAC 746WS1 2.38Nm IP55, WxHxL: 80x120x174 mm. 3000 RPM. 2.38 Nm RMS / 6.8 Nm Peak, IP55, Incremental Encoder: 8000 CPR, Color: Black, Alias: MAC800-D2-BAAJ		
<b>Manufacture</b>	JVL	<b>Motor type</b>	Integr. AC-servo - Rotating
<b>Motor power [W]</b>	746	<b>Power Peak [W]</b>	2238
<b>Duty Cycle</b>	S1	<b>Max Duty Cycle [%]</b>	100
<b>Continuous Torque</b>	2.38	<b>Peak torque [Nm]</b>	6.8
<b>Main supply [V]</b>	115, 230	<b>Voltage type - Main</b>	AC
<b>Speed [Rpm]</b>	3000	<b>Connectivity: Without module</b>	RS232
<b>Encoder type</b>	Incr. Encoder	<b>Encoder [Counts/rev]</b>	8000
<b>Fan mounted</b>	Yes	<b>Brake</b>	No
<b>Integrated gear</b>	No	<b>Gear ratio</b>	-
<b>Integrated PLC</b>	Yes	<b>STO connector</b>	No
<b>Approval TÜV - STO</b>	No	<b>Approval - UL</b>	Approved
<b>PLC no. of AIN</b>	2	<b>PLC no. of DI</b>	-
<b>PLC no. of DIO</b>	-	<b>PLC no. of DO</b>	2
<b>Multifunction IOs</b>	2		
<b>Flange size</b>	80x80	<b>Protection house</b>	IP55
<b>Shaft size - Front [mm]</b>	19.00mm	<b>Protection shaft</b>	IP55
<b>Color</b>	Black	<b>Paint type</b>	



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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]** 2.90

**Country Of Origin** DK

**Weight gross [kg]** 3.05

**Tariff no** 85015220

**Tariff no US**



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### Mechanical information

<b>Motor type</b>	Integr. AC-servo - Rotating	<b>Color</b>	Black
<b>Rotor inertia [kgcm<sup>2</sup>]</b>	0.91	<b>Max inertia factor</b>	20
<b>Encoder type</b>	Incr. Encoder	<b>Encoder [Counts/rev]</b>	8000
<b>Precision Motor - Absolute [Deg -/+]</b>	0.04	<b>Precision Motor - Max Load [Deg -/+]</b>	
<b>Precision Motor - Repeatability [Deg -/+]</b>	0.04		
<b>Brake</b>	No	<b>Brake - Go ON time [ms]</b>	-
<b>Brake Holding torque [Nm]</b>	-	<b>Brake - Go OFF time [ms]</b>	-
<b>Radial load [N]</b>	180	<b>Radial load distance [mm]</b>	20
<b>Axial load [N]</b>	110		
<b>Axial play [mm]</b>	xxx	<b>Axial play force [N]</b>	xxx
<b>Front bearing type</b>	xxx	<b>Rear bearing type</b>	xxx
<b>Integrated gear</b>	No	<b>Gear ratio</b>	-
<b>Gear efficiency [%]</b>	< -	<b>Gear backlash [ArcMin]</b>	-
<b>Motor length [mm]</b>	174	<b>Motor width [mm]</b>	84.0
<b>Motor height [mm]</b>	120.0	<b>Protection house</b>	IP55
<b>Customer Sealing</b>	Standard		
<b>Flange size</b>	80x80	<b>Mounting holes front [mm]</b>	5.5
<b>Motor diameter center front [mm]</b>	70.0	<b>Bolt circle diameter front [mm]</b>	90.0
<b>Flange material</b>		<b>Flange Thickness [mm]</b>	
<b>Shaft Key included</b>	-	<b>Shaft Key Dimension</b>	6x6x30
<b>Shaft size - Front [mm]</b>	19.00mm	<b>Protection shaft</b>	IP55
<b>Shaft length Front [mm]</b>	40.0	<b>Shaft material</b>	Steel
<b>Approval - ROHS-3</b>	Yes	<b>Approval - UL</b>	Approved
<b>Approval TÜV - STO</b>	No	<b>Approval - ATEX</b>	No
<b>CAD 2D [PDF]</b>	Download	<b>CAD 3D [STEP]</b>	Download
<b>CAD 2D [DWG]</b>	No	<b>CAD 3D [DWG]</b>	No



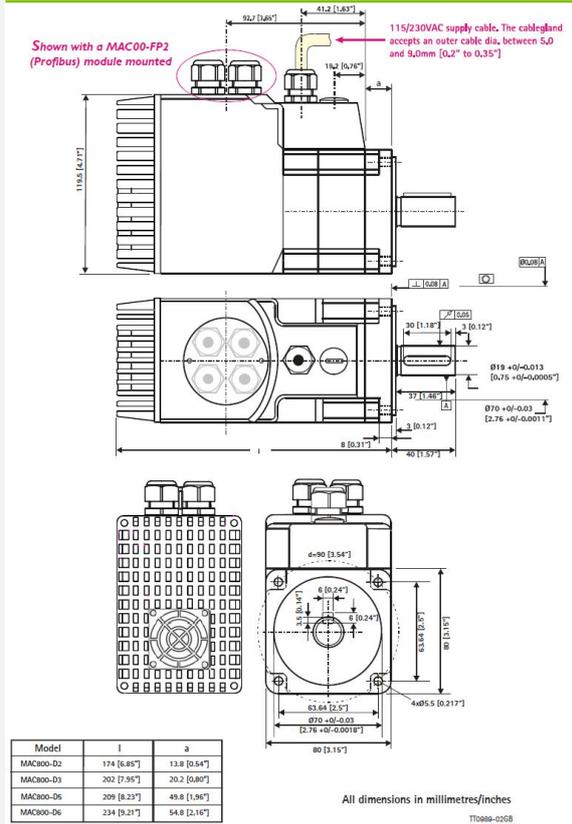
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### Mechanical information

<b>CAD 3D [EASM]</b>	No	<b>CAD 3D [IGES]</b>	No
<b>Datasheet - pdf</b>	Yes	<b>User Manual</b>	Download
<b>REACH SVHC document</b>	Download	<b>Low voltage Directive</b>	LVD conformity with EU standard: EN 61800-3

**No Dual Use** [Read more here](#)



### Shaft Seal

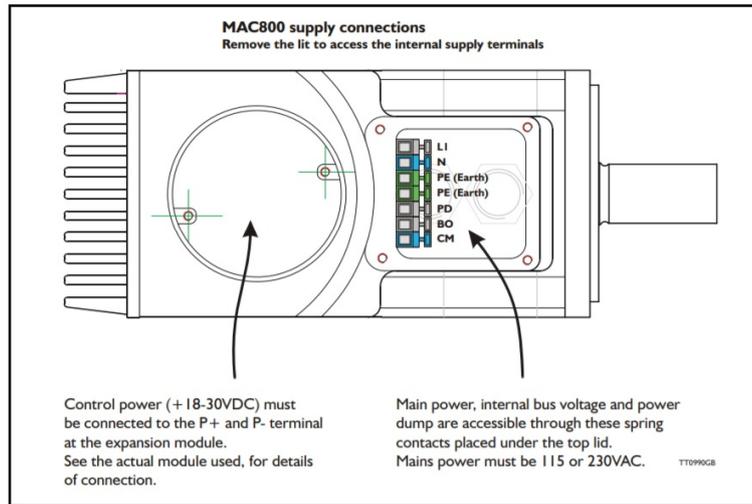


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### Connector information

#### Motor connectors



<b>Connector Power</b>	PG12 - Internal terminal	<b>Connector Power Supplier</b>
<b>Connector Power direction</b>	Straight	
<b>PDO Connector Type</b>	PG12 - Internal terminal	<b>Connector PDO Supplier</b>
<b>Connector STO</b>	No	
<b>Expansion connector</b>	Generation 1 and 2	

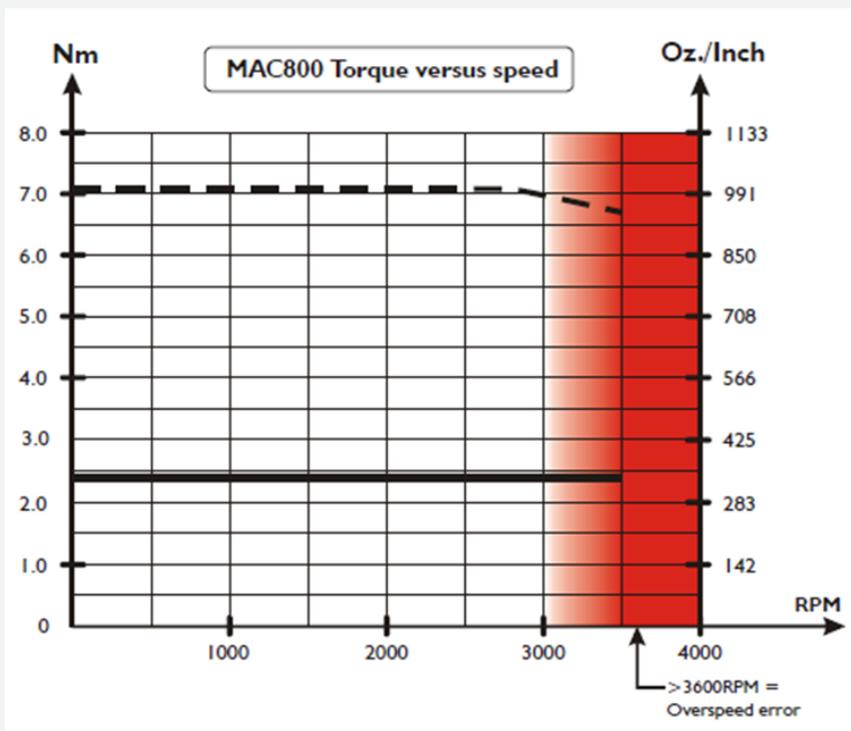


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**Torque, force and Power information**

<b>RMS torque [Nm]</b>	2.38	<b>Peak torque [Nm]</b>	6.8
<b>Supply Volt 1 [V]</b>	1x115	<b>Velocity max 1 [Rpm]</b>	3600
<b>Supply Volt 2 [V]</b>	1x230	<b>Velocity max 2 [Rpm]</b>	3600
<b>Supply Volt 3 [V]</b>		<b>Velocity max 3 [Rpm]</b>	
<b>Supply Volt 4 [V]</b>		<b>Velocity max 4 [Rpm]</b>	



Conditions:  
 Supply voltage = 90-240VAC  
 Ambient temperature < 40°C  
 Torque setting = 300% (max)  
 Load setting = 1.0

--- = Peak torque  
 — = Average torque



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### Electrical information

<b>Main supply [V]</b>	115, 230	<b>Main supply Min-Max [V]</b>	90-260
<b>Voltage type - Main</b>	AC	<b>Main Voltage possible</b>	1x115VAC, 1x230VAC
<b>Input Voltage Frequency</b>			
<b>Inrush current -Main max [A]</b>		<b>Inrush special</b>	No
<b>Recommended fuse</b>	115VAC: FRN-R-15 Cooper Bussmann inc. 230VAC: T10A@230VAC type gG, Do or Dz.	<b>P- isolated from Earth ( Low Voltage ground (P-) isolated from housing)</b>	No
<b>Bus Supply Voltage Min [V]</b>		<b>Busvoltage Overvoltage limit [VDC]</b>	467V
<b>Power Dump Voltage Active Level [V]</b>		<b>Internal Power-Dump Resistance [Ohm]</b>	68
<b>Internal Power-Dump Power [W]</b>	9	<b>PD connection - Int/Ext</b>	Int/Ext PD in Parallel
<b>External Power-Dump Resistance Minimum value [Ohm]</b>	33	<b>External Power-Dump Max Current [A]</b>	100
<b>Control voltage (CVI/O+) [VDC]</b>	18-28	<b>Control Voltage (CVI) Min-Max [VDC]</b>	18-30
<b>PLC no. of DI</b>	-	<b>PLC no. of DO</b>	2
<b>PLC no. of DIO</b>	-	<b>PLC no. of AIN</b>	2
<b>Analogue voltage</b>	-/+10VDC, -/+11bit	<b>Multifunction IOs</b>	2
<b>Multifunction Nom. level [V]</b>		<b>Multifunction Maximum level [V]</b>	
<b>Multifunction Low trigger level [V]</b>		<b>Multifunction High trigger level [V]</b>	
<b>Resistance [Ohm]</b>		<b>Induction [mH]</b>	
<b>MTBF 100% [Year]</b>	-	<b>MTBF 30% [Year]</b>	-
<b>Temperature Error [°C]</b>			



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### Communication information

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



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### 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 flexibilty	Wire [mm2]	Connector 1 LED