

1. Reference 1 channel should be configured as AI2

Code	Name/Description	Adjustment range	Factory setting
<i>Fr 1</i>	☐ [Ref.1 channel]		[AI1] (AI1)
<i>R 1 1</i>	☐ [AI1] (AI1): Analog input		
<i>R 1 2</i>	☐ [AI2] (AI2): Analog input		
<i>R 1 3</i>	☐ [AI3] (AI3): Analog input, if VW3A3202 extension card has been inserted		
<i>R 1 4</i>	☐ [AI4] (AI4): Analog input, if VW3A3202 extension card has been inserted		
<i>L C C</i>	☐ [HMI] (LCC): Graphic display terminal		
<i>M d b</i>	☐ [Modbus] (Mdb): Integrated Modbus		
<i>C A n</i>	☐ [CANopen] (CAn): Integrated CANopen		
<i>n E t</i>	☐ [Com. card] (nEt): Communication card (if inserted)		
<i>A P P</i>	☐ [Prog. card] (APP): Controller Inside card (if inserted)		
<i>P I</i>	☐ [RP] (PI): Frequency input, if VW3A3202 extension card has been inserted		
<i>P G</i>	☐ [Encoder] (PG): Encoder input, if encoder card has been inserted		

2. AI2 configuration should be done for 4 to 20 mA

Code	Name/Description	Adjustment range	Factory setting
<i>R 1 2 -</i>	☒ [AI2 CONFIGURATION]		
<i>R 1 2 A</i>	☐ [AI2 assignment] Read-only parameter, cannot be configured. It displays all the functions associated with input AI2 in order to check, for example, for compatibility problems.		
<i>R 1 2 t</i> <i>1 0 U</i> <i>0 A</i>	☐ [AI2 Type] ☐ [Voltage] (10U): Voltage input ☐ [Current] (0 A): Current input		[Current] (0 A)
<i>C r L 2</i>	☐ [AI2 min. value] The parameter can be accessed if [AI2 Type] (AI2t) = [Current] (0 A)	0 to 20.0 mA	0 mA
<i>U I L 2</i>	☐ [AI2 min. value] The parameter can be accessed if [AI2 Type] (AI2t) = [Voltage] (10U)	0 to 10.0 V	0 V
<i>C r H 2</i>	☐ [AI2 max. value] The parameter can be accessed if [AI2 Type] (AI2t) = [Current] (0 A)	0 to 20.0 mA	20.0 mA
<i>U I H 2</i>	☐ [AI2 max. value] The parameter can be accessed if [AI2 Type] (AI2t) = [Voltage] (10U)	0 to 10.0 V	10.0 V
<i>R 1 2 F</i>	☐ [AI2 filter] Interference filtering.	0 to 10.00 s	0 s
<i>R 1 2 L</i> <i>P O S</i> <i>n E G</i>	☐ [AI2 range] ☐ [0 – 100%] (POS): Unidirectional input ☐ [+/- 100%] (nEG): Bidirectional input Example: On a 0/10 V input - 0 V corresponds to reference -100% - 5 V corresponds to reference 0% - 10 V corresponds to reference +100%		[0 – 100%] (POS)
<i>R 1 2 E</i>	☐ [AI2 Interm. point X] Input delinearization point coordinate. • 0% corresponds to [Min value] if the range is 0 → 100%. • 0% corresponds to $\frac{[\text{Max value}] + [\text{Min value}]}{2}$ if the range is -100% → +100%. • 100% corresponds to [Max value].	0 to 100%	0%
<i>R 1 2 S</i>	☐ [AI2 Interm. point Y] Output delinearization point coordinate (frequency reference).	0 to 100%	0%

3. AO1 assignment should be assigned to “OFR-Motor frequency” as speed feedback

Code	Name/Description	Adjustment range	Factory setting
AO1-	[AO1 CONFIGURATION]		
AO1	☐ [AO1 assignment]		[No] (nO)
AO1	☐ [No] (nO) : Not assigned ☐ [I motor] (OCr) : Current in the motor, between 0 and 2 In (In = rated drive current indicated in the Installation Manual and on the drive nameplate). ☐ [Motor freq.] (OFR) : Output frequency, between 0 and [Max frequency] (tFr) ☐ [Ramp out.] (ORP) : Between 0 and [Max frequency] (tFr) ☐ [Motor torq.] (trq) : Motor torque, between 0 and 3 times the rated motor torque ☐ [Sign. torque] (Stq) : Signed motor torque, between -3 and +3 times the rated motor torque. The + sign corresponds to motor mode and the - sign to generator mode (braking). ☐ [sign ramp] (OrS) : Signed ramp output, between - [Max frequency] (tFr) and + [Max frequency] (tFr) ☐ [PID ref.] (OPS) : PID regulator reference between [Min PID reference] (PIP1) and [Max PID reference] (PIP2) ☐ [PID feedback] (OPF) : PID regulator feedback between [Min PID feedback] (PIF1) and [Max PID feedback] (PIF2) ☐ [PID error] (OPE) : PID regulator error between -5% and +5% of ([Max PID feedback] (PIF2) – [Min PID feedback] (PIF1)) ☐ [PID output] (OPI) : PID regulator output between [Low speed] (LSP) and [High speed] (HSP) ☐ [Mot. power] (OPr) : Motor power, between 0 and 2.5 times [Rated motor power] (nPr) ☐ [Mot thermal] (tHr) : Motor thermal state, between 0 and 200% of the rated thermal state ☐ [Drv thermal] (tHd) : Drive thermal state, between 0 and 200% of the rated thermal state ☐ [Torque 4Q] (tqMS) : Signed motor torque, between -3 and +3 times the rated motor torque. The + sign and the - sign correspond to the physical direction of the torque, regardless of mode (motor or generator). ☐ [Meas.mot.fr] (OFRr) : Measured motor speed if an encoder card has been inserted, otherwise 0 appears. ☐ [Sig. o/p freq.] (OFS) : Signed output frequency, between - [Max frequency] (tFr) and + [Max frequency] (tFr) ☐ [Mot therm2] (tHr2) : Thermal state of motor 2, between 0 and 200% of the rated thermal state ☐ [Mot therm3] (tHr3) : Thermal state of motor 3, between 0 and 200% of the rated thermal state ☐ [Uns.TrqRef] (Utr) : Torque reference, between 0 and 3 times the rated motor torque ☐ [Sign trq ref.] (Str) : Signed torque reference, between -3 and +3 times the rated motor torque ☐ [Torque lim.] (tqL) : Torque limit, between 0 and 3 times the rated motor torque ☐ [Motor volt.] (UOP) : Voltage applied to the motor, between 0 and [Rated motor volt.] (UnS) ☐ dO1] (dO1) : Assigned as logic output. This assignment can only appear if [DO1 assignment] (dO1) page 100 has been assigned. This is the only possible choice in this case, and is displayed for information purposes only.		
AO1t	☐ [AO1 Type]		[Current] (0 A)
AO1t	☐ [Voltage] (10U) : Voltage output ☐ [Current] (0 A) : Current output		
AO1I	☐ [AO1 min Output]	0 to 20.0 mA	0 mA
	The parameter can be accessed if [AO1 Type] (AO1t) = [Current] (0 A)		
AO1H	☐ [AO1 max Output]	0 to 20.0 mA	20.0 mA
	The parameter can be accessed if [AO1 Type] (AO1t) = [Current] (0 A)		
UO1I	☐ [AO1 min Output]	0 to 10.0 V	0 V
	The parameter can be accessed if [AO1 Type] (AO1t) = [Voltage] (10U)		
UO1H	☐ [AO1 max Output]	0 to 10.0 V	10.0 V
	The parameter can be accessed if [AO1 Type] (AO1t) = [Voltage] (10U)		

4. Analog output scaling can be done through below parameters, if required.

Code	Name/Description	Adjustment range	Factory setting
AO1-	[AO1 CONFIGURATION] (continued)		
ASL I	☐ [Scaling AO1 min]	0 to 100.0%	0%
	Scaling of the lower limit of the assigned parameter, as a % of the maximum possible variation.		
ASH I	☐ [Scaling AO1 max]	0 to 100.0%	100.0%
	Scaling of the upper limit of the assigned parameter, as a % of the maximum possible variation.		
AO1F	☐ [AO1 Filter]	0 to 10.00 s	0 s
	Interference filtering. This parameter is forced to 0 if [AO1 assignment] (AO1) = [dO1] (dO1).		