



Reversing starter, 6.6 A, Sensor input 2, Actuator output 1, AS-Interface®, S-7.A.E. for 62 modules, HAN Q4/2



Part no. **RAM05-W210A32-4120S1**
 Catalog No. **199094**

Delivery program

Product range			Motor starter
Basic function			Reversing starter
Rated operational voltage	U_e		400 V AC, 3-phase 480 V AC, 3-phase
Output voltage with V_e	U_2		= U_{LN}
Mains voltage (50/60Hz)	U_{LN}	V	380 (-15%) - 480 (+10%)
At 150% overload	I_e	A	6.6
assigned motor rating P			
Note			at 400 V, 50 Hz
150 % Overload	P	kW	0,09 - 3
Note			at 480 V, 60 Hz
150 % Overload	P	HP	0,125 - 3
Note			for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm^{-1} at 50 Hz or 1800 min^{-1} at 60 Hz
Description			Integrated thermistor monitoring PTC and thermo-click Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Connections pluggable in power section Connection of supply voltage via adapter cable on round or flexible busbar junction Diagnostics and reset on device and via AS-Interface with AUTO - OFF/RESET - HAND key switches With electronic motor protection for allocated motor power from 0.09 – 3.0 kW (400 V)/0.125 – 3.0 HP (480 V)
Sensor input		Number	2
Actuator output		Number	1
Interface/field bus (built-in)			AS-Interface®
AS-Interface profile cable			S-7.A.E. for 62 modules
Plug arrangement			HAN Q4/2
Parameterization			Keypad Fieldbus drivesConnect drivesConnect mobile (App)

Technical data

General

Standards			IEC/EN 60947-4-2 UL 60947-4-2 Guideline 2011/65/EU (RoHS) CE approval UL approval CCC approval
Climatic proofing	ρ_w	%	< 95%, non-condensing IEC/EN 50178
Ambient temperature			
Operating ambient temperature min.		°C	-10
Operating ambient temperature max.		°C	+ 55
Storage	θ	°C	-40 - +70
Overvoltage category			III
Rated impulse withstand voltage	U_{imp}	kV	4
Radio interference level			
Environment (EMC)			Device class A
maximum motor cable length	l	m	10
Mechanical shock resistance		g	1000 shocks per shaft, semi-sinusoidal 15 g/11 ms IEC/EN 60068-2-27

Vibration			Oscillation frequency: 10 - 150 Hz Amplitude 0.15 mm: 6 Hz Amplitude transition frequency on acceleration: 57 Hz IEC/EN 60068-2-6
Mounting position			Vertical
Altitude		m	0 - 1000 m above sea level above 1000 m with 1 % performance reduction per 100 m max. 2000 m
Degree of Protection			IP65 NEMA12

Main circuit

Supply			
Rated operational voltage	U_e		400 V AC, 3-phase 480 V AC, 3-phase
Mains voltage (50/60Hz)	U_{LN}	V	380 (-15%) - 480 (+10%)
Input current (150% overload)	I_{LN}	A	6.6
System configuration			AC voltage Center-point earthed star network (TN-S network) Phase-earthed AC supply systems are not permitted.
Supply frequency	f_{LN}	Hz	50/60
Frequency range	f_{LN}	Hz	47 - 63 Hz ($\pm 0\%$)
Mains switch-on frequency			Maximum of one time every 60 seconds
Rated conditional short-circuit current	I_q	kA	< 10
Short-circuit protection for output circuits, external			Type 1 coordination via the power bus' feeder unit
Power section			
Function			Reversing starter with relays, thyristors and bypass contacts, 2-phase controlled
On-delay	t_{0N}	ms	20 - 35
Off-delay	t_{0FF}	ms	20 - 35
Lifespan, mechanical	Operations		AC3: > 10.000.000
Lifespan, electrical	Operations		AC3: > 10.000.000
Overload cycle			AC-53a
Output voltage with V_e	U_2		= U_{LN}
Output Frequency	f_2	Hz	= f_{LN}
Rated operational current			
At 150% overload	I_e	A	6.6
Motor current limit	I	A	0.3 - 6.6 adjustable
Fitted with			without manual override switch
Motor feeder			
Note			for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm^{-1} at 50 Hz or 1800 min^{-1} at 60 Hz
Note			at 400 V, 50 Hz
Note			at 480 V, 60 Hz

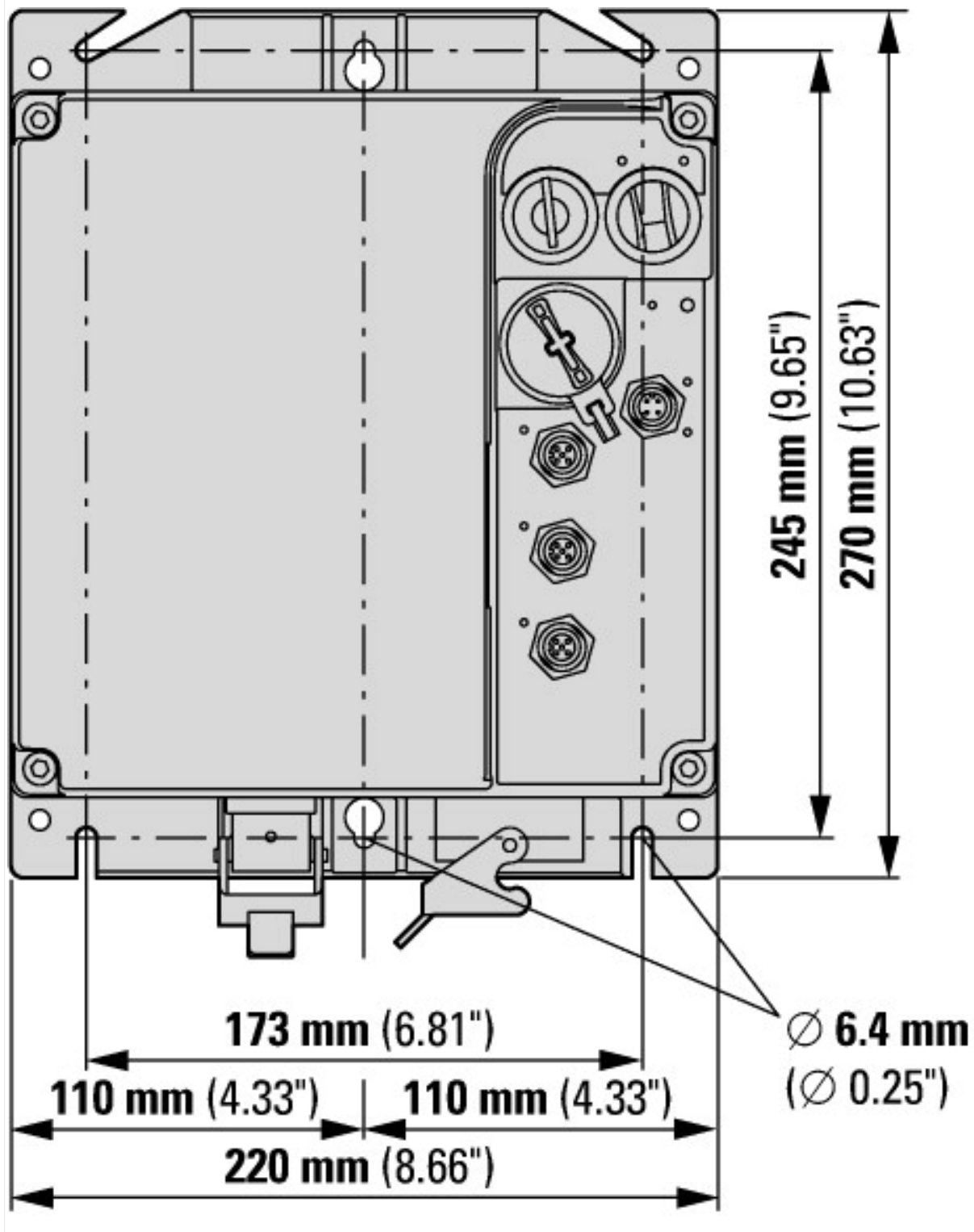
Control section

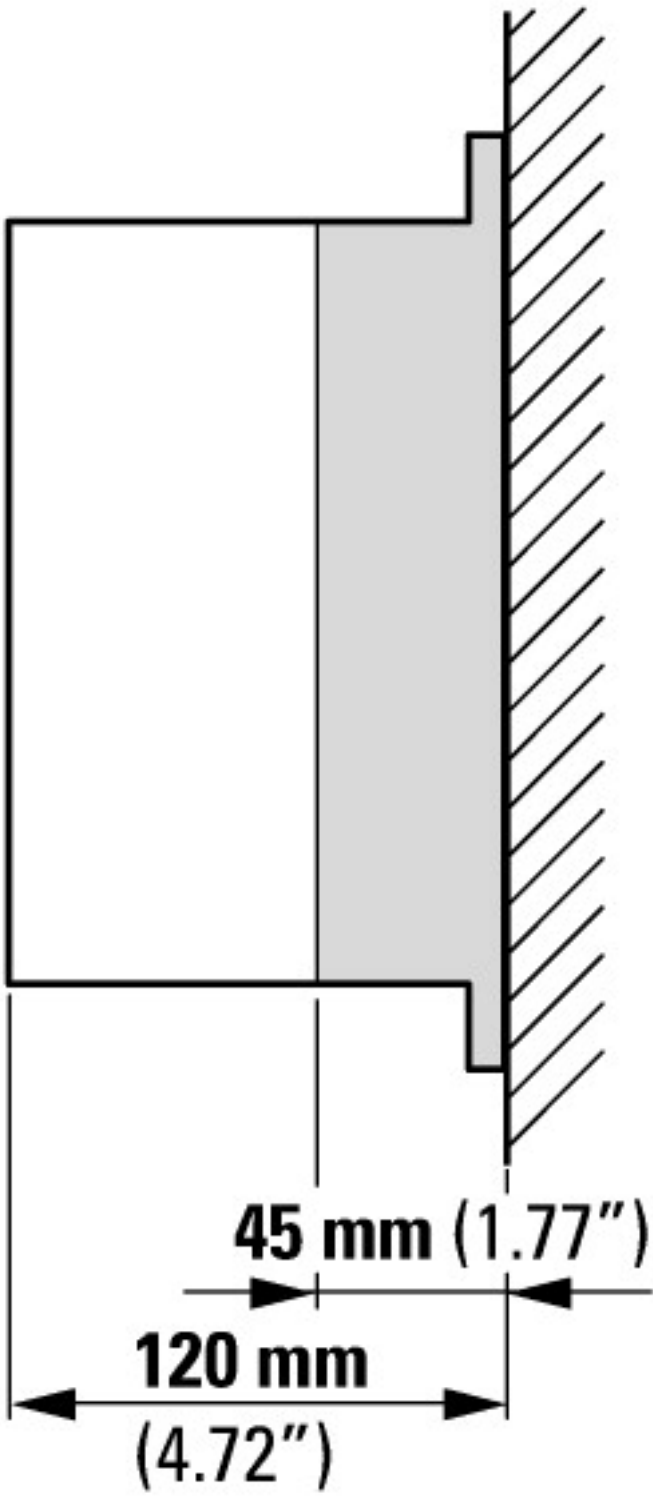
External control voltage	U_c	V	24 V DC - 15 % / + 20 % via AS-Interface® plug
Interface/field bus (built-in)			AS-Interface®
AS-Interface®			max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA Specification: S-7.A.E. Number of slave addresses: 62

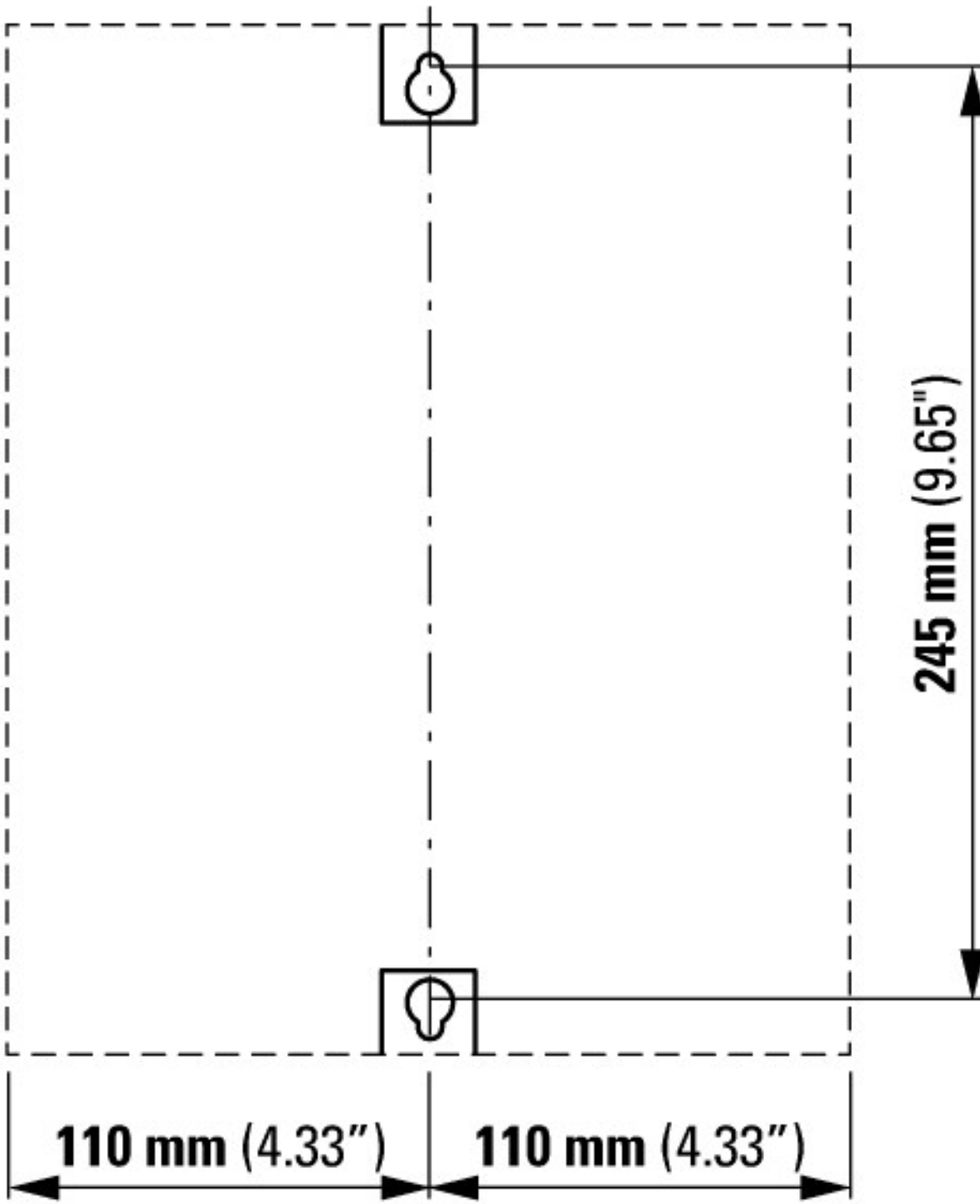
Design verification as per IEC/EN 61439

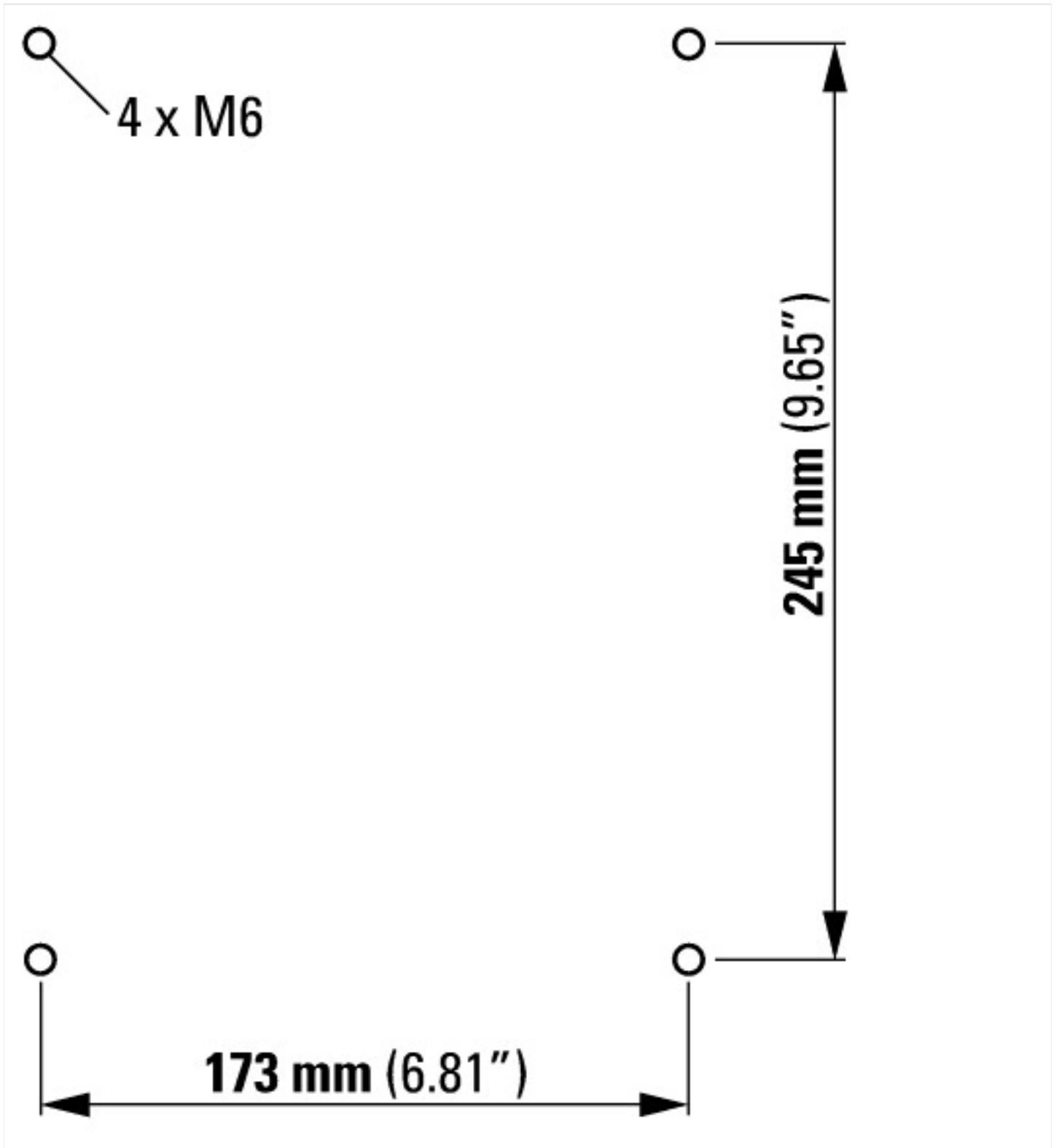
Technical data for design verification			
Operating ambient temperature min.		°C	-10
Operating ambient temperature max.		°C	55

Dimensions









Additional product information (links)

MN034004 Rapid Link 5.0 RAMO RASP

MN034004 Schnellverbindung 5.0 RAMO RASP https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN034004_DE.pdf
- Deutsch

MN034004 Rapid Link 5.0 RAMO RASP - English https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN034004EN.pdf